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Catalog LV 13 Edition 03/2024

SENTRON

3WA Air Circuit Breakers

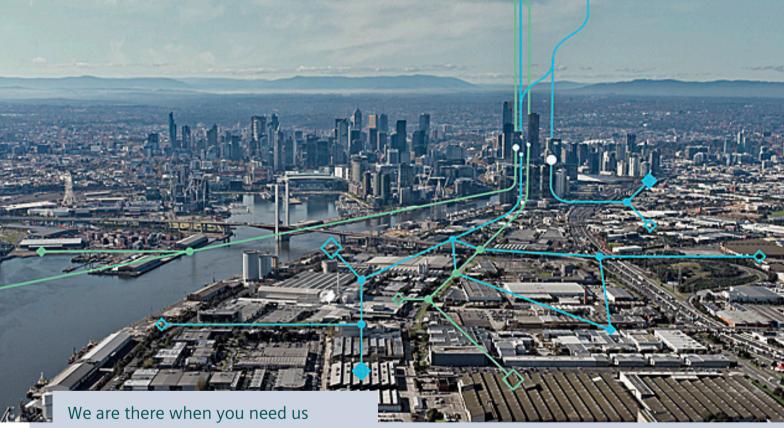
siemens.com/3WA

Innovative solutions for industrial controls and power distribution

Reliable components and systems are essential in ensuring smooth power distribution in buildings and industrial plants.

With SIRIUS, SENTRON, SIVACON and ALPHA, we offer an innovative portfolio for standard-compliant and demand-oriented applications.

Efficient engineering tools and innovative cloud-based solutions can be flexibly tailored to individual requirements.



Your personal contact can be found at www.siemens.com/lowvoltage/contact

Catalog LV 13 · 03/2024

You will find the latest edition and all future editions in SiePortal at www.siemens.com/lowvoltage/catalogs

You can find the current prices in SiePortal at www.siemens.com/lowvoltage/product-catalog



The products and systems described in this catalog are manufactured/ distributed under application of a certified quality management system in accordance with EN ISO 9001 (for the Certified Registration Nos., see www.siemens.com/system-certificates/ep).

The certificate is recognized by all IQNet countries.

Technical specifications

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

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Sustainability@Siemens

Transforming the everyday to create a better tomorrow.



Siemens as a company takes an all-round view of environmental, social and governance criteria (ESG) with its DEGREE rulebook (decarbonization, ethics, governance, resource efficiency, equity and employability). Not only are we committed to reducing the carbon footprint in our own plants to net zero by 2030, but also to helping our customers achieve their decarbonization and sustainability objectives.

Mission & strategy

As a focused technology company, Siemens is committed to tackling the world's most profound challenges by leveraging the synergies of digitalization and sustainability.

Technology with a purpose

We develop technologies that interconnect the real world and the digital world and enable our customers to make positive changes to their industries, which form the backbone of our economy: industry, infrastructure, transportation and healthcare.

Our contribution

Siemens makes a difference every single day by providing innovative solutions for challenges in environmental protection, decarbonization, health and safety. Innovative solutions that have a clear purpose: to make the world more sustainable, more integrative and a better place to live.

Facts about sustainability

For almost 175 years, Siemens has been driven by the desire to improve the lives of people around the world with our technologies.

Further information at: www.siemens.com/sustainability

New products



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

PDF (E86060-K8280-A101-B8-7600)

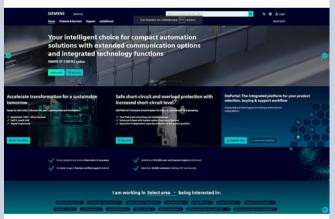
Clickable article numbers

Direct forwarding to the individual products in SiePortal (product catalog) by clicking on the article number in the catalog



or by entering this web address incl. article number www.siemens.com/product_catalog_SIEP?Article No.

SiePortal – The integrated platform for product selection, ordering and support



SiePortal:

www.siemens.com/sieportal

Clickable images

Direct forwarding to the individual motif types in the Industry image database by clicking on the images in the catalog



Industry image database: www.siemens.com/lowvoltage/picturedb

SiePortal – Knowledge base for low-voltage products

SiePortal > Support > Knowledge base

- Catalog/Brochure
- Manual
- Characteristic curves
- Certificates
- FAQ etc.

www.siemens.com/lowvoltage/product-support

SiePortal – Product catalog (Internet ordering platform) for low-voltage products

SiePortal > Products & Services

www.siemens.com/lowvoltage/product-catalog

Trust the tried-and-tested

With the help of rock-solid 3WA air circuit breakers, your power distribution system will benefit from the reliable protection you know and trust. Benefit from a comprehensive portfolio that meets every requirement and suits every application. Extensive, modular accessories let you expand functions easily. A long service life and the low maintenance cost of all the components are your assurance of long-term reliability.

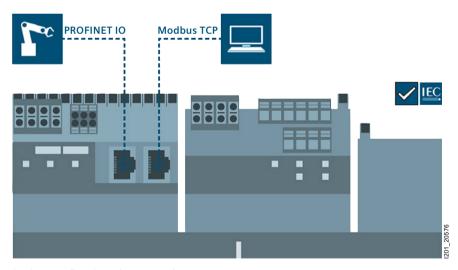
You will find more information on our website sie.ag/3RptGW0

Consistent portfolio



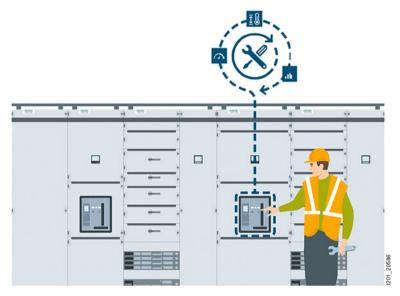
- Consistent, end-to-end portfolio since 2001 thanks to the 3WL and 3WA air circuit breakers having the same dimensions and terminals
- Consistent, end-to-end circuit breaker portfolio up to 1150 V AC
- Three sizes with rated currents from 630 A to 6300 A for AC applications
- One size up to 4000 A for DC applications
- High breaking capacity I from 55 kA to 150 kA at 500 V AC
- Simple extension of functions thanks to uniform accessories for all sizes
- A single electronic trip unit that meets all requirements

Simple extension of functions



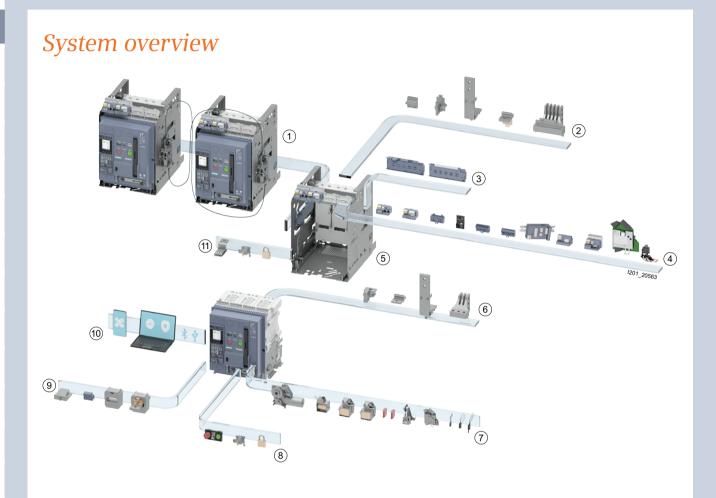
- Accessories can also be retrofitted on site at any time
- ETU functions can be extended by means of on-site upgrades
- COM190 PROFINET-IO/Modbus TCP module for connection to higher-level management systems; designed as a combination module to use multiple protocols simultaneously (Modbus TCP and PROFINET)
- Switched Ethernet functionality for optimized architecture, engineering, and redundancy while maintaining highest performance

Long-term reliability



- Simple annual inspection can be carried out independently by the customer
- Replacement of wear parts can be performed as needed by the customer (no Siemens personnel required)
- Under certain ambient conditions, inspections are required only once every four years
- Automatic self-monitoring of proper functioning of the 3WA air circuit breaker
- Cybersecurity functions for secure communication

Trust the tried-and-tested



- 1 Interlocking solutions with Bowden cable
- (2) Main connection variants for guide frame
- (3) Position signaling switch (PSS) for the guide frame
- (4) Interfaces/COM-modules/Aux. terminals
- (5) Guide frame with shutter
- (6) Main connection variants for fixed-mounted version

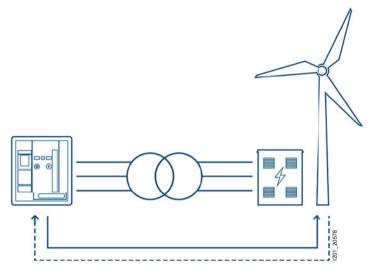
- 7 Internal accessories: aux. release, spring charging motor, aux. contacts
- 8 Locking solutions for fixed-mounted version
- 9 Electronic trip units (ETU)
- 10 Digital function packages can be activated for the ETU
- (11) Interlocking solutions for withdrawable version

Benefit from efficiency

3WA air circuit breakers provide enhanced protective functions and increased selectivity to ensure maximum system availability. Their robust mechanisms and outstanding product quality are highly effective in demanding heavy-duty applications. With a 3WA air circuit breaker in your switchgear, you can efficiently retrofit a 3WL air circuit breaker, saving time and money.

You will find more information on our website sie.ag/3CZLoeb

Optimal selectivity



- Perfectly coordinated selectivity values and protective functions for air circuit breakers and downstream protective devices like molded case circuit breakers assure full selectivity in cases of both overload and short circuit (the system component directly affected is safely shut down)
- Directional protective function: better protection of equipment (e.g. transformer) thanks to the detection of short-circuits when the direction of energy flow changes
- · Hazardous discharge currents are detected thanks to optimized ground-fault protection functions

Highest product quality



- Further development of the proven, extremely robust design of the previous model, the 3WL air circuit breaker
- New special versions (high short-circuit breaking capacity at high voltages): up to 125 kA at 1000 V
- Maximum load capacity of circuit breaker thanks to long-lasting short-circuit breaking capacity at I_m (3 s)
- Accessories designed for the maximum service life of the air circuit breaker
- The 3WA air circuit breaker is developed and manufactured in accordance with a certified quality management system complying with DIN EN ISO 9001:2008
- User-friendly operation of electronic trip unit via rotary coding switch, display, or remote parameterization

Trust the tried-and-tested

Time and cost savings when integrating into switchboards



- Easy integration of the 3WA air circuit breaker in switchboard with no need for additional testing if the 3WL air circuit breaker is already integrated in the switchboard design
- Easy to replace in existing switchboard: the 3WL air circuit breaker can be replaced by the 3WA air circuit breaker without additional testing according to IEC 61439 if the latter is operated under the same infeed/load conditions
- Type test according to IEC 61439 is only required if new technical features of the 3WA air circuit breaker are used (e.g. high switching capacities)
- Possibility of installing the 3WA air circuit breaker in an existing 3WL guide frame

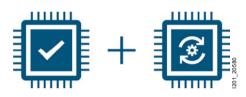
For certificate, see: www.siemens.com/lowvoltage/certificate (109783797)

Create solutions with potential

3WA air circuit breakers offer selectable and upgradable functionalities, giving you flexibility – both now and in the future. Power data recording guarantees maximum transparency during system operation. Sophisticated, powerful communication characteristics ensure secure data transmission – a must in the age of digitalization. And because they are easy to select, plan, and order, you can enjoy efficient workflows.

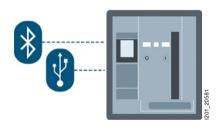
You will find more information on our website sie.ag/3Qe3L1T

Long-term flexibility



- Intelligent dual-processor solution provides future-proofing and high levels of flexibility, together with strong security: Unmodifiable protection processor for basic protective functions and upgradable application processor for metering functions and enhanced protective functions
- Easy to install functions and upgrades using the SENTRON Powerconfig configuration software
- Optimal transparency for energy efficiency according to IEC 60364-8-1 thanks to a predefined metering function level (PMF level)
- Adaptation to new standards and modified standards possible at any time via upgrades

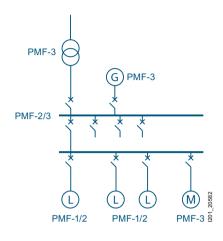
Future-proof communication solutions



- PROFINET-IO, for example for very demanding industrial communications, and Modbus TCP, e. g. for power monitoring
- PROFINET-IO redundancy and compliance with the highest PROFINET-IO standards (real-time capability)
- Modbus RTU for system expansion
- Standard interfaces like USB-C and Bluetooth available in every air circuit breaker
- Possibility of using two communications modules simultaneously

Create solutions with potential

High system transparency



- Simple integration in energy management systems according to ISO 50001 with selection of metering functions based on the energy efficiency guidelines of IEC 60364-8-1
- ETU600 electronic trip unit with advanced monitoring and reporting concept
- 3WA air circuit breaker monitored remotely via the SENTRON Powerconfig mobile app

Secure communication



- Communication via Bluetooth: deactivated by default and protected by safe pairing with a one-use PIN
- Comprehensive cybersecurity solutions, such as
- lockable communications module
- lockable USB-C interface
- Communication via USB: setting parameters, testing, and switching using the SENTRON Powerconfig configuration software

Selection, planning, and ordering



- Reduced complexity, bundling of functions, and rapid selection of device configuration
- Visual and interactive online configurator with interface to comprehensive CAx data support
- Direct conversion of 3WL air circuit breaker article numbers to 3WA air circuit breaker article numbers available
- Quick and easy switchgear documentation thanks to switch-specific EPLAN macros
- After configuration, the 3WA air circuit breaker and guide frame can be ordered separately

Enjoy seamless consistency

3WA air circuit breakers allow all low-voltage components to communicate seamlessly, ensuring you can use standard tools and benefit from data consistency. An extensive tool landscape and access to all necessary engineering data ensure maximum convenience for planning and configuration.

You will find more information on our website sie.ag/3Rl8vEc

Consistent tool landscape Insights Hub Application SENTRON Powermind SENTRON Commissioning/ Powerconfig parameterization **SENTRON** SIMATIC S7 Powermanager SENTRON Power monitoring Powerconfig PAC3220 PAC4200 mobile SENTRON Powercenter 3000 Modbus RTU/ ■ Modbus TCP PROFIBUS/ Modbus RTU ■ PROFINET/ Modbus TCP SENTRON COM100/ DSP800 Powercenter 1000 COM800 with max. 2 x COM150 with COM15, COM16 with COM040, with max. 2 x COM190 with COM35 COM042 3VA-line with COM041, with COM060 COM043 1 1 5SV6 COM 5SL6 COM 5ST3 COM 3NA COM 3VA 3VA 3VA27 3WL10 3WA1 3WL11 - 3WL13 max. 8 max 24

- Uniform communication landscape for all low-voltage components
- SENTRON Powerconfig configuration software for all low-voltage components
- · Monitoring and analysis of all low-voltage components using the power monitoring software
- SENTRON Powermanager enable optimization measures through data transparency
- Remote status check of all low-voltage components via the SENTRON Powerconfig mobile app
- Easy planning of all low-voltage components using SIMARIS software tools

Enjoy seamless consistency

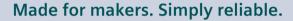
Convenient planning and configuration



- Data-based engineering: reduced effort thanks to extensive CAx data and creation of a digital twin
- Easy and fast planning with SIMARIS software tools, e. g. to verify selectivity and for easy calculation of short circuits across the entire power distribution system
- Generating individual EPLAN macros to integrate data (2D, 3D) easily and quickly and configure the circuit diagram

The advantages: How makers benefit

- Transparent power data can improve energy efficiency by up to 30%
- Lower penalty payments for grid operators in the event of power outages
- · Robust air circuit breakers can withstand deviations in voltage supply, minimizing the risk of system faults
- While up to seven hours were previously required to plan the wiring, it can now be done at the push of a button, resulting in considerable time savings
- System tests confirm a combination of robust mechanics, automated diagnostics, and web-based upgrades increase the real service life of the circuit breaker, if properly maintained, to potentially as long as 30 years, which represents a considerable reduction in system life-cycle costs
- 3WA air circuit breaker can be easily and inexpensively integrated into switchboards if the 3WL air circuit breaker is already integrated



All power distribution systems rely on a secure infeed of electrical energy. The 3WA air circuit breaker combines all of the functions which are required of power distribution equipment in the digital companies of today: from reliably protecting people and equipment from electrical accidents and damage, to flexible application and retrofit options, a long service life and low maintenance, to innovative features for integrated e-engineering, reliable energy data recording and seamless integration into digital environments. As the central component of the electrical power distribution, the 3WA air circuit breaker provides the basis for a holistic energy system in the digital age. The 3WA air circuit breaker is also part of the Siemens Xcelerator portfolio and therefore provides support with achieving digital and sustainable transformation – faster, simpler, and scalable.

Reliable, versatile and perfectly integrated

The air circuit breakers reliably protect electrical equipment from damage or fire resulting from short circuit, ground fault or overload failures.



Air Circuit Breakers

All the information you need 3WA1 quick selection guide		_ 1/2 _ 1/4
5 With quick selection guide	3WA1 circuit breakers and non-automatic circuit breakers	
	for AC and DC	1/4
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	3WA1 non-automatic circuit breakers for DC	1/14
	Electronic trip unit	1/18
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A multitude of additional information ...

Information + ordering



All the important things at a glance

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



Your product in detail

The SiePortal platform (knowledge base) provides comprehensive information

- www.siemens.com/lowvoltage/product-support
 - 3WA air circuit breakers (109781967)
- Brochure

Quick Selection Guide

3WA air circuit breakers (109800077)

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

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



Siemens YouTube channel

- 3WA air circuit breaker Teaserfilm sie.ag/2Myvit
- 3WA air circuit breaker Highlightfilm sie.ag/3dy65A



Everything you need for your order

Refer to SiePortal to find an overview of your products (product catalog)

• Air circuit breakers sie.ag/2|XiZjB

Direct forwarding to the individual products in SiePortal by clicking on the article number in the catalog or entering this web address incl. article number www.siemens.com/product_catalog_SIEP?Article No.

Order supports can be found in SiePortal at www.siemens.com/lowvoltage/product-support

- Order Support
 - 3WA air circuit breakers Made for makers.
 Simply reliable. (109800074)



Configurators

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

The following are additionally available for your configured air circuit breaker:

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



The fast track to the experts

Contact persons in your region

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

You will find further information on services at www.siemens.com/service-offers

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/support-request

... can be found in our online services

Commissioning + operation



SENTRON Powerconfig

The combined commissioning and service tool SENTRON Powerconfig for communication-capable measuring devices, circuit protection devices and circuit breakers.

Free download SENTRON Powerconfig www.siemens.com/powerconfig

Free download SENTRON Powerconfig mobile via App Store and Play Store



Your product in detail

The SiePortal platform (knowledge base) provides detailed technical information

www.siemens.com/lowvoltage/product-support

- · Operating instructions
- Characteristic curves
- Certificates

Online Support app available for download from the App Store and Play Store
You will find further information at www.siemens.com/support-app

Provision of 3D data (step and u3d data formats)

- SiePortal (product catalog) www.siemens.com/lowvoltage/product-catalog
- Image database www.siemens.com/lowvoltage/picturedb

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

Manuals

Manuals can be found in SiePortal at www.siemens.com/lowvoltage/manuals

- Equipment Manual
- 3WA1 air circuit breakers (109763061)
- · System Manual
 - 3WA air circuit breaker communication (109792368)
- Configuration Manual
 - Low-voltage protection devices selectivity tables (109748621)

Face-to-face or online training

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

- 3WA air circuit breakers (WT-LV3WA)
- Protection systems in low-voltage power distribution (WT-LVAPS)
- Maintenance and operation of 3WA circuit breakers (LV-3WAMAIN)
- Certification: Maintenance and operation of 3WL and 3WA circuit breakers (LV-CBCERT)
- 3WL and 3WA air circuit breakers protection technology and communication (LV-COPR)



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)

3WA1 circuit breakers and non-automatic circuit breakers for AC and DC

IEC 60947-2



AC





	3WA13		3W/	A12			
	≤ 1150		≤ 1000 (≤ 1500 for 4-pc	ole, Breaking capacity E)			
	4000 6300		1000	4000			
	3		2				
Withdrawable		Fixed-mounted	Withdrawable	Fixed-mounted			
3/4-pole		3/4-pole	3/4-pole	3/4-pole			
704 914		704 914	460 590	460 590			
466 516		437 462	466 516	437 462			
471		357	400 310	357			
471		557	471	557			
	VDE, EAC, CCC, CE, C-Tick		VDE, EAC, CO	CC. CE. C-Tick			
	ABS, DNV, LRS, BV, PRS, CCS		ABS, DNV, LRS				
Н	С	E	D	E			
- -	- -	- -	- -	- -			
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)	- -	- -			
- -	- -	125 125	- -	- -			
- -	- -	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	-	-			

System overview, page 1/30

3WA1 circuit breakers and non-automatic circuit breakers for AC and DC

IEC 60947-2 (continued)



AC

				3W	A11			:	3WA12		
Breaking capacity			N	S	М	E	S	М	Н	С	E
Rated short-time withstand current $I_{cw}^{(1)}$											
$I_{\rm cw}$ at $U_{\rm e}$ up to 500 V AC	0.5 s	kA	55	66	85	-	66	85	100	100	-
	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⁾	45	66	70	50	66	66 ⁴⁾ /85 ⁵⁾	85	66 ⁴⁾ /85 ⁵⁾
	3 s	kA	30 ²⁾ /35 ³⁾	35	60	60	50	55 ⁴⁾ /66 ⁵⁾	55 ⁴⁾ /75 ⁵⁾	75	55 ⁴⁾ /75 ⁵⁾
$I_{\rm cw}$ at $U_{\rm e}$ up to 1000 V AC	0.5 s	kA	-	-	-	50	-	-	-	-	85
	1 s	kA	-	_	-	50	-	-	-	-	85
	2 s	kA	-	-	-	50	-	-	-	-	66 ⁴⁾ /85 ⁵⁾
	3 s	kA	-	_	-	50	-	-	-	-	55 ⁴⁾ /75 ⁵⁾
$I_{\rm cw}$ at $U_{\rm e}$ up to 1150 V AC	0.5 s	kA	-	_	-	-	-	-	-	_	50
	1 s	kA	-	-	-	-	-	-	-	-	50
	2 s	kA	-	_	-	-	-	-	-	_	50
	3 s	kA	-	_	-	-	-	-	-	-	50
$I_{\rm cw}$ at $U_{\rm e}$ up to 220 V DC	1 s	kA	-	_	-	-	-	-	-	-	-
$I_{\rm cw}$ at $U_{\rm e}$ up to 300 V DC	1 s	kA	-	_	-	-	-	-	-	-	-
$I_{\rm cw}$ at $U_{\rm e}$ up to 600 V DC	1 s	kA	-	_	_	-	-	-	-	-	-
I _{cw} at U _e up to 1000 V DC	1 s	kA	-	_	-	-	-	-	-	-	-
$I_{\rm cw}$ at $U_{\rm e}$ up to 1500 V DC	1 s	kA	-	-	-	-	-	-	-	-	-
Rated conditional short-circuit current I _{cc} of the non-au	tomatic air	circuit	breakers								
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 DC		kA	-	-	-	-	-	-	-	-	-
Up to 300 V DC		kA	-	-	-	-	-	-	-	-	-
Up to 600 V DC		kA	-	-	-	-	-	-	-	-	-
Up to 1000 V DC		kA	-	-	-	-	-	-	-	-	-
Up to 1500 V DC		kA	_	_	-	-	-	_	-	_	-
IT network capability											
1-pole short-circuit breaking capacity I_{IT}	≤ 500 V	kA	50	50	50	-	50	50	50	50	-
acc. to IEC 60947-2 Annex H	≤ 690 V	kA	_	_	_	50	-	_	_	_	50
	1000 V	kA	_	-	_	_	-	-	_	_	_

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

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

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

⁴⁾ $I_{\text{n max}} \le 2500 \text{ A}$ ⁵⁾ $I_{\text{n max}} \ge 3200 \text{ A}$





			And applied	
	3WA13		3W	A12
н	С	E	D	E
		<u>'</u>		
100	130 (3-pole); 120 (4-pole)	-	-	-
100	130 (3-pole); 120 (4-pole)	-	-	-
100	130 (3-pole); 120 (4-pole)	-	-	-
100	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)	-	-
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	-	-
-	-	-	35	-
-	-	-	30	-
-	-	-	25	-
<u> </u>	-	_	_	20
-	-	-	-	– (3-pole); 20 (4-pole)
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	-
-	-	-	25	-
-	_	-	-	20
-	-	-	-	– (3-pole); 20 (4-pole)
50	50	_	_	-
-	-	50	_	-
-	-	-	-	-

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3WA1 circuit breakers and non-automatic circuit breakers for AC

°C

°C

IEC 60947-2

Rated current I_n General data

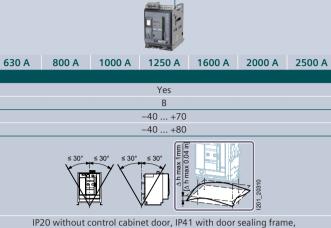
Utilization category

Mounting position

Isolating function acc. to EN 60947-2

Permissible ambient temperature Operation

Storage



3WA11

meanting position										
Degree of protection			IP20 without control cabinet door, IP41 with door sealing frame, IP55 with cover							
Voltage										
Rated operational voltage $U_{\rm e}$ at 50/60 Hz	1000 V version	V AC	≤1000							
Rated insulation voltage U _i		V AC	1000							
Rated impulse withstand	Main conducting paths	kV				12				
voltage $U_{\rm imp}$	Auxiliary circuits	kV				4				
	Control circuits	kV	2.5							
Degree of protection IP20 without control cabinet door, IP41 with door sealing frame, IP55 with cover										
Permissible load for withdrawa	ble versions									
	Up to 55 °C (Cu bare)	Α	630	800	1000	1250	1600	2000	-	
	Up to 60 °C (Cu bare)	Α	630	800	1000	1250	1600	1930	-	
connections)	Up to 70 °C (Cu bare)	А	630	800	1000	1210	1490	1780	-	
With rear vertical connections	Up to 55 °C (Cu bare)	Α	630	800	1000	1250	1600	2000	2500	
	Up to 60 °C (Cu bare)	А	630	800	1000	1250	1600	2000	2370	
	Up to 70 °C (Cu bare)	Α	630	800	1000	1250	1545	1855	2060	
Permissible load for fixed-mour	nted versions									
For all connection types	Up to 55 °C (Cu bare)	А	630	800	1000	1250	1600	2000	-	
	Up to 60 °C (Cu bare)	Α	630	800	1000	1250	1600	2000	-	
connections)	Up to 70 °C (Cu bare)	А	630	800	1000	1250	1600	2000	-	
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	1600	2000	2500	
Power loss at I _n										
With 3-phase symmetrical load	Fixed-mounted	W	30	45	70	105	135	240	360	
	Withdrawable versions	W	55	85	130	205	310	440	600	



	ch.							
2000 A	2500 A	3200 A	4000 A	4000 A	5000 A	6300 A		
	Ye				Yes			
	E				В			
	-40				-40 +70			
	-40			-40 +80				
	IP20 without control cabinet door, IP41 with door sealing frame							
IP20 wit	hout control cabinet doc IP55 wit		g frame,	IP20 without contro	l cabinet door, IP41 with IP55 with cover	n door sealing frame,		
	≤ 1	150			≤ 1150			
	≤ 1150							
	1	2		12				
	4	1		4				
	2.	5		2.5				
2000	2500	3200	-	4000	5000	-		
2000	2500	3020	-	4000	5000	-		
2000	2280	2870	-	4000	5000	-		
2000	2500	3200	4000	4000	5000	5920		
2000	2500	3200	3910	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		
100	270	440	750	F20	630	000		
180	270	410	750	520	630	900		
320	520	710	1040	810	1050	1600		

3WA1 circuit breakers and non-automatic circuit breakers for AC

IEC 60947-2 (continued)

3WA11

						7782			
Rated current I _n			630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A
Switching times									
Make time		ms				35			
Opening time		ms				38			
Electrical make time (through clos	ing coil) 1)	ms				80			
Electrical opening time (through s	hunt trip)	ms				73			
Electrical opening time (instantant	eous undervoltage release)	ms				≤ 80			
Opening time due to ETU, instanta	neous short-circuit release	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			7500	5000
	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			10000			7500	5000
	With maintenance 2)	Operating cycles				30000			
Breaking capacity M, 3/4-pole									
Mechanical	Without maintenance	Operating cycles				10000			
	With maintenance 2)	Operating cycles				15000			
Electrical	Without maintenance 690 V	Operating cycles			10000			7500	5000
	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			10000			7500	5000
	Without maintenance 1000 V	Operating cycles				1000			
	Without maintenance 1150 V	Operating cycles				_			
	With maintenance 2)	Operating cycles				15000			
Breaking capacity H, 3/4-pole	and a second								
Mechanical	Without maintenance	Operating cycles				_			
et et e	With maintenance 2)	Operating cycles							
Electrical	Without maintenance 690 V	Operating cycles				_			
Burnelium remeritus C 2/4 mala	With maintenance 2)	Operating cycles	_	_	_	-	_	_	
Breaking capacity C, 3/4-pole	With aut maintanana	Operation avales							
Mechanical	Without maintenance With maintenance ²⁾	Operating cycles							
Floatrical	Without maintenance 690 V	Operating cycles							
Electrical		Operating cycles							
Control in a few array are	With maintenance 690 V ²⁾	Operating cycles				-			
Switching frequency									
Breaking capacity N and S									
Electrical	3-pole	1/h				45			
	4-pole	1/h				45			
Breaking capacity M, H and C									
Electrical	3- and 4-pole	1/h				60 ≤ 690 V			
Breaking capacity E									
Electrical	3- and 4-pole	1/h			20 at 1	1000 V, 60 ≤	690 V		

¹⁾ Make time through closing coil for momentary duty for synchronization purposes 5% OP = 50 ms

²⁾ Maintenance means: Replacing main contact elements and arc chutes (see operating instructions: www.siemens.com/lowvoltage/manuals).

3WA12 3WA13





2000 A	2500 A	3200 A	4000 A	4000 A	5000 A	6300 A
	3!				35	
	34				34	
	10				100	
	7:				73	
	≥ 8	30			≤ 80	
	50	0			50	
					-	
					-	
					-	
	-				-	_
	100	00			-	
	200				-	
7500	7500	4000	2000		-	
	200	00			-	
	100	00			-	
	200					
7500	7500	4000	2000			
7300	200		2000		_	
	200		_			_
	100	00			5000	
	200				10000	
7500	7500	4000	2000		2000	
	100	00			1000	
	50				500	
	200	00			10000	
	100				7500	
	200				15000	
7500	7500	4000	2000		2000	
20000	20000	20000	20000		15000	
	500	20			5000	
	100				10000	
5000	5000	4000	1000		1000	
10000	10000	10000	10000		10000	
10000	10000	10000	10000		10000	
	4!	5			-	
	60				-	
	60 ≤ 6	590 V			60 ≤ 690 V	
	20 - 1222/	21/ 60 6021/				
	20 at 1000/1150	J V, 60 ≤ 690 V		20	at 1000/1150 V, 60 ≤ 690) V

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3WA1 circuit breakers and non-automatic circuit breakers for AC

IEC 60947-2 (continued)

3WA11

						2772				
Rated current I _n			630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	
Connection										
Minimum main conductor cross	sections									
Copper bars, bare		Unit, mm ²	$1 \times 40 \times 10$	$1 \times 50 \times 10$	$1 \times 60 \times 10$	$2 \times 40 \times 10$	$2 \times 50 \times 10$	$3 \times 50 \times 10$	4 × 50 × 10	
Copper bars, painted black		Unit, mm ²	$1 \times 40 \times 10$	$1 \times 50 \times 10$	$1 \times 60 \times 10$	$2 \times 40 \times 10$	$2 \times 50 \times 10$	$3 \times 50 \times 10$	$4 \times 50 \times 10$	
Auxiliary conductor (Cu) max. n	umber of auxiliary conductors × cro	ss-section (s	olid/stranded	d)						
Standard connection = push-in	Without end sleeve				2 × 0.5 2	2.5 mm ² (AW	G 20 14)			
	With end sleeve acc. to DIN 46228	Part 2			2 × 0.5 2	2.5 mm ² (AW	'G 20 14)			
	With twin end sleeve				2 × 0.5 1	.5 mm ² (AW	'G 20 16)			
	Stripped length					nm (0.39				
Optional connection with screw	Without end sleeve				2 × 0.5 2	2.5 mm ² (AW	'G 20 14)			
connection	With end sleeve acc. to DIN 46228	Part 2			1 × 0.5 1	.5 mm ² (AW	'G 20 16)			
	With twin end sleeve				1 × 0.5 1	.5 mm ² (AW	'G 20 16)			
	Stripped length				7 8 m	m (0.28 0	.31 inch)			
Position signaling switch										
Spring-loaded terminals for	Without end sleeve			0.08 2.	5 mm² (AWC	3 20 12)				
standard signaling contacts	With end sleeve acc. to DIN 46228	Part 2				25 1.5 mr	•			
	Stripped length					ım (0.2 0.				
Push-in connection for	Without end sleeve					5 mm² (AWC				
communication signaling contacts	With end sleeve acc. to DIN 46228	Part 2				5 mm² (AWC				
	Stripped length				9 1	mm (0.35 in	ch)			
Weights 1)										
3-pole	Fixed-mounted circuit breaker	kg	38.5	38.5	38.5	42.5	42.5	43.5	43.5	
	Withdrawable circuit breaker	kg	39	39	39	40	40	41	41	
	without guide frame Guide frames	Lea	26	26	26	27	27	29	29	
4 mala	Fixed-mounted circuit breaker	kg		26		27	52	53	53	
4-pole	Withdrawable circuit breaker	kg	47 45	47 45	47 45	52 46	52 46	53 47	53 47	
	without guide frame	kg	45	45	45	46	46	47	4/	
	Guide frames	kg	30	30	30	32	32	34	34	

¹⁾ Weights refer to:

- Breakers with the lowest breaking capacity in each case (size 1: breaking capacity N, size 2: breaking capacity S, size 3: breaking capacity H)
- Breakers with ETU600 (LSI)
- Fixed-mounted circuit breakers/guide frames with vertical connections
- Guide frame with position signaling switch
- Without any other accessories

3WA12 3WA13





	Contract of the Contract of th								
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	n ² (AWG 20 14)		2 × 0.	.5 2.5 mm² (AWG 20 .	14)			
	2 × 0.5 2.5 mm	n ² (AWG 20 14)		2 × 0.5 2.5 mm ² (AWG 20 14)					
	2 × 0.5 1.5 mm	² (AWG 20 16)		2 × 0.	.5 1.5 mm² (AWG 20 .	16)			
	10 12 mm (0.	39 0.47 inch)		10	12 mm (0.39 0.47 iı	nch)			
	2 × 0.5 2.5 mm	² (AWG 20 14)		2 × 0.	.5 2.5 mm² (AWG 20 .	14)			
	1 × 0.5 1.5 mm	¹² (AWG 20 16)		1 × 0.	.5 1.5 mm² (AWG 20 .	16)			
	1 × 0.5 1.5 mm	¹² (AWG 20 16)		1 × 0.	.5 1.5 mm² (AWG 20 .	16)			
	7 8 mm (0.2	8 0.31 inch)	7	8 mm (0.28 0.31 ind	ch)				
	0.08 2.5 mm ²	(AWG 20 12)	0.08	3 2.5 mm² (AWG 20	12)				
		1.5 mm²			0.25 1.5 mm ²				
	5 6 mm (0.2				6 mm (0.2 0.24 inc				
	0.14 1.5 mm ²	, ,			1 1.5 mm² (AWG 20				
	0.25 1.5 mm ²	• •		0.25	5 1.5 mm² (AWG 20	. 16)			
	9 mm (0	.35 inch)			9 mm (0.35 inch)				
		60		442	445				
55	57	69	77	113	115	115			
52	54	59	59	91	92	92			
33.5	35.5	36.5	40	85.5	87	87			
68.5	71.5	86.5	97.5	147.5	149.5	149.5			
63.5	66	73	73	115.5	116.5	116.5			
40	42.5	51.5	53	103.5	105.5	105.5			

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3WA1 non-automatic circuit breakers for DC

IEC 60947-2





Page of protection					1		
Secretar Secretar	Rated current I _n			1000 A	2000 A	4000 A	
Sealating function acc. to EN 60947-2 Ultilization category B B							
## During operation Comparation with LCD max. 55 °C		2			Yes		
Permissible ambient temperature During operation (in operation with LCD max. 55 °C) Storage C							
Comparison Com		During operation	°C		-40 +70		
Degree of protection							
Degree of protection		Storage	°C		-40 +80		
Degree of protection	Mounting position				(FIE		
Voltage Rated operational voltage U _s Breaking capacity D E V DC 600 1000 (3-pole); 1500 (4-pole) Rated operational voltage U _s Breaking capacity D E V DC 600 1000 (3-pole); 1500 (4-pole) Rated impulse withstand voltage U _s Main conducting paths k V 12 Variable load Permissible load for withdrawable versions For all connection types Up to 40 °C (Cu bare) A 1000 2000 4000 (except rear vertical main connections) Up to 60 °C (Cu bare) A 1000 2000 3640 With rear vertical connections Up to 70 °C (Cu bare) A 1000 2000 3500 With rear vertical connections Up to 55 °C (Cu bare) A 1000 2000 3640 With rear vertical connection types Up to 55 °C (Cu bare) A 1000 2000 3640 Up to 55 °C (Cu bare) A 1000 2000 3640 With rear vertical connection types Up to 70 °C (Cu bare) A 1000 2000 3640				≤ 30° ≤ 30°	2 ≤ 30° ≥ 30° 100 Xem H ^Δ 100	1201 20310	
Rated operational voltage U _e	Degree of protection			IP20 without contr		ith door sealing frame,	
Rated insulation voltage U	Voltage						
Rated insulation voltage U	Rated operational voltage U _e	Breaking capacity D E	V DC	600	1000 (3-pole); 1500 ((4-pole)	
Main conducting paths KV			V DC				
Variety		3 . 3 .	kV			<u> </u>	
Control circuits KV 2.5		J.	kV		4		
Permissible load for withdrawable versions	······································	· · · · · · · · · · · · · · · · · · ·	kV				
For all connection types	Permissible load						
(except rear vertical main connections) Up to 60°C (Cu bare) A 1000 2000 3640 With rear vertical connections Up to 70°C (Cu bare) A 1000 2000 3500 With rear vertical connections Up to 40°C (Cu bare) A 1000 2000 4000 Up to 55°C (Cu bare) A 1000 2000 4000 Up to 60°C (Cu bare) A 1000 2000 3640 Up to 70°C (Cu bare) A 1000 2000 3640 Up to 70°C (Cu bare) A 1000 2000 3640 Vexcept rear vertical main Up to 55°C (Cu bare) A 1000 2000 4000 Cexcept rear vertical main Up to 55°C (Cu bare) A 1000 2000 4000 Cexcept rear vertical main Up to 55°C (Cu bare) A 1000 2000 4000 Cexcept rear vertical main Up to 55°C (Cu bare) A 1000 2000 4000 With rear vertical main Up to 70°C (Cu bare) A 1000 2000	Permissible load for withdrawable	versions					
Up to 60 °C (Cu bare)	For all connection types	Up to 40 °C (Cu bare)	А	1000	2000	4000	
Up to 70 °C (Cu bare)	(except rear vertical main	Up to 55 °C (Cu bare)	А	1000	2000	3640	
Up to 70 °C (Cu bare)	connections)	Up to 60 °C (Cu bare)	A	1000	2000	3500	
With rear vertical connections			A	1000	1950	3250	
Up to 55 °C (Cu bare)	With rear vertical connections						
Up to 60 °C (Cu bare)							
Permissible load for fixed-mounted versions		•					
Permissible load for fixed-mounted versions			A				
(except rear vertical main connections) Up to 55 °C (Cu bare) A 1000 2000 4000 connections) Up to 60 °C (Cu bare) A 1000 2000 4000 With rear vertical connections Up to 40 °C (Cu bare) A 1000 2000 4000 With rear vertical connections Up to 55 °C (Cu bare) A 1000 2000 4000 Up to 55 °C (Cu bare) A 1000 2000 4000 Up to 60 °C (Cu bare) A 1000 2000 4000 Power loss at In With 3-phase symmetrical load, complete device (3/4p) Withdrawable versions W 280 770 1640 complete device (3/4p) Fixed-mounted W 140 390 820 Switching times Make time ms 35 35 35 Opening time ms 34 34 34 Electrical make time (through closing coil) ms 100 100 100 Electrical opening time (through shunt trip)	Permissible load for fixed-mounte	• • • • • • • • • • • • • • • • • • • •					
(except rear vertical main connections) Up to 55 °C (Cu bare) A 1000 2000 4000 connections) Up to 60 °C (Cu bare) A 1000 2000 4000 With rear vertical connections Up to 40 °C (Cu bare) A 1000 2000 4000 With rear vertical connections Up to 55 °C (Cu bare) A 1000 2000 4000 Up to 55 °C (Cu bare) A 1000 2000 4000 Up to 60 °C (Cu bare) A 1000 2000 4000 Power loss at In With 3-phase symmetrical load, complete device (3/4p) Withdrawable versions W 280 770 1640 complete device (3/4p) Fixed-mounted W 140 390 820 Switching times Make time ms 35 35 35 Opening time ms 34 34 34 Electrical make time (through closing coil) ms 100 100 100 Electrical opening time (through shunt trip)			A	1000	2000	4000	
connections) Up to 60 °C (Cu bare) A 1000 2000 4000 Up to 70 °C (Cu bare) A 1000 2000 3900 With rear vertical connections Up to 40 °C (Cu bare) A 1000 2000 4000 Up to 50 °C (Cu bare) A 1000 2000 4000 Up to 60 °C (Cu bare) A 1000 2000 4000 Power loss at In With 3-phase symmetrical load, complete device (3/4p) Withdrawable versions W 280 770 1640 Switching times Switching times Ms 35 35 35 Opening time ms 35 35 35 Opening time ms 34 34 34 Electrical make time (through closing coil) ms 100 100 100 Electrical opening time (instantaneous undervoltage release) ms 30 80 80 Service life/endurance						4000	
Up to 70 °C (Cu bare)	connections)		A	1000	2000	4000	
With rear vertical connections			A	1000	2000	3900	
Up to 55 °C (Cu bare)	With rear vertical connections		Α	1000	2000	4000	
Up to 60 °C (Cu bare)			Α	1000	2000	4000	
Power loss at In A 1000 2000 4000 Power loss at In With 3-phase symmetrical load, complete device (3/4p) With drawable versions W 280 770 1640 Switching times Make time ms 35 35 35 Opening time ms 34 34 34 Electrical make time (through closing coil) ms 100 100 100 Electrical opening time (through shunt trip) ms 73 73 73 Electrical opening time (instantaneous undervoltage release) ms ≤ 80 ≤ 80 ≤ 80 Service life/endurance Breaking capacity D, 3/4-pole Without maintenance Operating cycles 10000 10000 10000 Mechanical Without maintenance of the maintenance		Up to 60 °C (Cu bare)	А	1000	2000	4000	
With 3-phase symmetrical load, complete device (3/4p) With drawable versions W 280 770 1640 Switching times Make time ms 35 35 35 Opening time ms 34 34 34 Electrical make time (through closing coil) ms 100 100 100 Electrical opening time (through shunt trip) ms 73 73 73 Electrical opening time (instantaneous undervoltage release) ms ≤ 80 ≤ 80 ≤ 80 Service life/endurance Breaking capacity D, 3/4-pole Without maintenance Operating cycles 10000 10000 10000 Mechanical With maintenance 0 Operating cycles 20000 20000 20000 Electrical Without maintenance 600 V Operating cycles 6000 6000 4000		Up to 70 °C (Cu bare)	А	1000	2000	4000	
complete device (3/4p) Fixed-mounted W 140 390 820 Switching times Make time ms 35 35 35 Opening time ms 34 34 34 Electrical make time (through closing coil) ms 100 100 100 Electrical opening time (through shunt trip) ms 73 73 73 Electrical opening time (instantaneous undervoltage release) ms ≤ 80 ≤ 80 Service life/endurance Breaking capacity D, 3/4-pole Mechanical Without maintenance Operating cycles 10000 10000 10000 Mith maintenance 10 Operating cycles 20000 20000 20000 Electrical Without maintenance 600 V Operating cycles 6000 6000 4000	Power loss at I _n						
Switching times Make time ms 35 35 35 Opening time ms 34 34 34 Electrical make time (through closing coil) ms 100 100 100 Electrical opening time (through shunt trip) ms 73 73 73 Electrical opening time (instantaneous undervoltage release) ms ≤ 80 ≤ 80 ≤ 80 Service life/endurance Breaking capacity D, 3/4-pole Without maintenance Operating cycles 10000 10000 10000 Mechanical Without maintenance 0 Operating cycles 20000 20000 20000 Electrical Without maintenance 600 V Operating cycles 6000 6000 4000	With 3-phase symmetrical load,	Withdrawable versions	W	280	770	1640	
Make time ms 35 35 35 Opening time ms 34 34 34 Electrical make time (through closing coil) ms 100 100 100 Electrical opening time (through shunt trip) ms 73 73 73 Electrical opening time (instantaneous undervoltage release) ms ≤ 80 ≤ 80 Service life/endurance Breaking capacity D, 3/4-pole Mechanical Without maintenance Operating cycles 10000 10000 10000 Mith maintenance ¹¹) Operating cycles 20000 20000 20000 Electrical Without maintenance 600 V Operating cycles 6000 6000 4000	complete device (3/4p)	Fixed-mounted	W	140	390	820	
Opening time ms 34 34 34 Electrical make time (through closing coil) ms 100 100 100 Electrical opening time (through shunt trip) ms 73 73 73 Electrical opening time (instantaneous undervoltage release) ms ≤ 80 ≤ 80 ≤ 80 Service life/endurance Breaking capacity D, 3/4-pole Mechanical Without maintenance Operating cycles 10000 10000 10000 With maintenance ¹¹ Operating cycles 20000 20000 20000 Electrical Without maintenance 600 V Operating cycles 6000 6000 4000	Switching times						
Electrical make time (through closing coil) ms 100 100 100 Electrical opening time (through shunt trip) ms 73 73 73 73 73 Electrical opening time (instantaneous undervoltage release) ms ≤ 80 ≤ 80 ≤ 80 Service life/lendurance Breaking capacity D, 3/4-pole Mechanical Without maintenance Operating cycles 10000 10000 10000 10000 Electrical Without maintenance 600 V Operating cycles 6000 6000 4000	Make time		ms	35	35	35	
Electrical opening time (through shunt trip) ms 73 73 73 73 Electrical opening time (instantaneous undervoltage release) ms ≤ 80 ≤ 80 ≤ 80 Service life/endurance Breaking capacity D, 3/4-pole Mechanical Without maintenance Operating cycles 10000 10000 10000 With maintenance 10 Operating cycles 20000 20000 20000 Electrical Without maintenance 600 V Operating cycles 6000 6000 4000	Opening time		ms	34	34	34	
Electrical opening time (instantaneous undervoltage release) ms ≤ 80 ≤ 80 ≤ 80 Service life/endurance Breaking capacity D, 3/4-pole Mechanical Without maintenance Operating cycles 10000 10000 10000 With maintenance Operating cycles 20000 20000 20000 Electrical Without maintenance 600 V Operating cycles 6000 6000 4000	Electrical make time (through closin	g coil)	ms	100	100	100	
Service life/endurance Breaking capacity D, 3/4-pole Mechanical Without maintenance Operating cycles 10000 10000 10000 With maintenance ¹¹ Operating cycles 20000 20000 20000 Electrical Without maintenance 600 V Operating cycles 6000 6000 4000			ms	73	73	73	
Breaking capacity D, 3/4-pole Mechanical Without maintenance With maintenance 10 Operating cycles 2000 10000 2000 10000 2000 Electrical Without maintenance 600 V Operating cycles 6000 6000 4000	Electrical opening time (instantaneo	us undervoltage release)	ms	≤ 80	≤ 80	≤ 80	
Mechanical Without maintenance Operating cycles 10000 10000 10000 With maintenance ¹¹ Operating cycles 20000 20000 20000 Electrical Without maintenance 600 V Operating cycles 6000 6000 4000	Service life/endurance						
With maintenance 1) Operating cycles 20000 20000 20000 Electrical Without maintenance 600 V Operating cycles 6000 6000 4000	Breaking capacity D, 3/4-pole						
Electrical Without maintenance 600 V Operating cycles 6000 6000 4000	Mechanical	Without maintenance	Operating cycles	10000	10000	10000	
		With maintenance 1)		20000	20000	20000	
	Electrical	Without maintenance 600 V	Operating cycles	6000	6000	4000	
		With maintenance 1)		20000	20000	20000	

3WA12



Rated current I _n			1000 A	2000 A	4000 A				
Service life/endurance									
Breaking capacity E, 3/4-pole									
Mechanical	Without maintenance	ince Operating cycles		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				
Breaking capacity E, 4-pole									
Electrical	Without maintenance 1500 V ²⁾ Operating cyc		1000	1000	1000				
	With maintenance 1) Operating cycles		20000	20000	20000				
Switching frequency									
Breaking capacity D									
Electrical	3- and 4-pole	1/h	60	60	60				
Breaking capacity E									
Electrical	3- and 4-pole	1/h	20	20	20				
Connection									
Minimum main conductor cross-section	ons								
Copper bars, bare		Unit, mm²	1 × 50 × 10	2 × 50 × 10	3 × 100 × 10 on the infeed and outgoing side; 6 × 250 × 500 × 5 for jumpers				
Copper bars, painted black		Unit, mm²	1 × 50 × 10	2 × 50 × 10	3 × 100 × 10 on the infeed and outgoing side; 6 × 250 × 500 × 5 for jumpers				
Auxiliary conductor (Cu) max. numbe	er of auxiliary conductors × cross-	section (solid/stranc	ded)		, ,				
Standard connection = push-in	Without end sleeve	2 × 0.5 2.5 mm ² (AWG 20 14)							
	With end sleeve acc. to DIN 4622	2 × 0.5 2.5 mm ² (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 mm ² (AWG 20 14)							
connection	With end sleeve acc. to DIN 4622	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 2.5 mm² (AWG 20 12)						
signaling contacts	With end sleeve acc. to DIN 46228 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	4 1.5 mm² (AWG 20	0 16)					
signaling contacts	With end sleeve acc. to DIN 46228 Part 2		0.25 1.5 mm² (AWG 20 16)						
	Stripped length		9 mm (0.35 inch)						
Weights ³⁾									
3-pole	Fixed-mounted circuit breaker	kg	55	55	68				
	Withdrawable circuit breaker without guide frame	kg	52	52	59				
	Guide frames	kg	34	34	50				
4-pole	Fixed-mounted circuit breaker	kg	68.5	68.5	86.5				
	Withdrawable circuit breaker without guide frame	kg	63.5	63.5	74				
	Guide frames	kg	40.5 40.5		61.5				

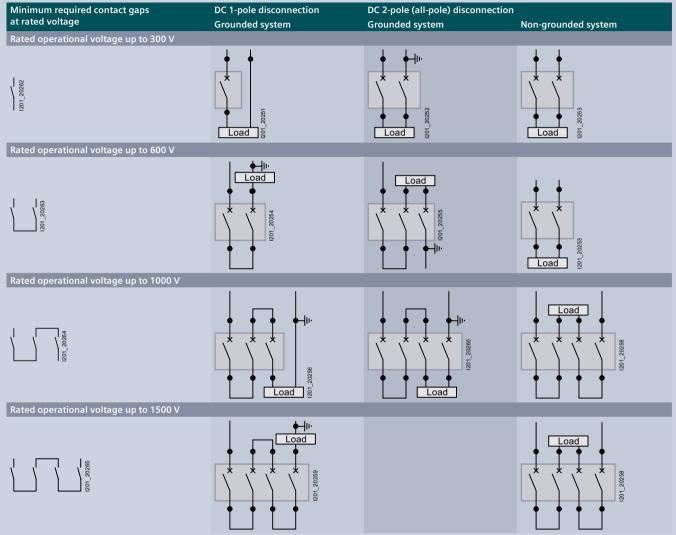
Maintenance means: Replacing main contact elements and arc chutes (see operating instructions: www.siemens.com/lowvoltage/manuals).

Neights refer to:
Breakers with breaking capacity E
Fixed-mounted circuit breakers/guide frames with vertical connections
Guide frame with position signaling switch
Without any other accessories

3WA1 non-automatic circuit breakers for DC

Application examples

The connection to the non-automatic 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 connection bars, for thermal reasons the continuous load on the non-automatic 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 connection bars, the non-automatic circuit breaker can be used at full operational current load.



Note:

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

The grounded conductor must always be assigned to the individual switching pole of the non-automatic air circuit breaker, 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.

The jumpers between the switching poles must be short-circuit and ground-fault proof.

1

System overview, page 1/30

Electronic trip unit

Differentiation





	ETU300 electronic trip unit	ETU600 electronic trip unit		
Function				
Protective function LSI	•			
Protective function LSIG	•			
Protective function LSIG Hi-Z	-			
Neutral conductor protection (N)	•			
Metering function	-			
Enhanced Protective functions	-			
CubicleBUS ²	-			
Display	-			
DAS+ input/output	•			
LED display of reason for tripping	•			
Bluetooth and USB	-			
FW Updates	-			
Internal self-test with and without tripping	•			
Extended test option (tripping characteristic)	-			
Activation of the ETU via powerbank	-			
Activation of the ETU for self-test via TD400	•	-		

Note:

By replacing the electronic trip unit, it is possible to upgrade from ETU300 to ETU600.

ETU300 electronic trip unit

Protective functions

ETU300 LSI, ETU300 LSIG

Protective function	Setting range and invariable parameters	Values
L: Overload protection LT		
Tripping	Switched on	
Current setting I _r	0.4 1.0 × <i>I</i> _n	0.4/0.5/0.6/0.7/0.75/0.8/0.85/0.9/0.95/1.0 × I _n
Tripping time t_r at $6 \times I_r$	0.75 25 s	0.75/1/2/5/8/10/14/17/21/25 s
Characteristic LT curve	I ² t	
Thermal memory	Switched on	
Cooling time constant	$18 \times t_{\rm r}$	
Phase failure detection	Switched on	
L: Overload protection LT, neutral conductor		
Tripping	Switched on	
Current setting I _N	1.0 × I _n	
S: Short-time-delayed short-circuit protection	ST	
Tripping	Can be switched on/off	
Current setting I _{sd}	1.5 10 × <i>I</i> _n	OFF/1.5/2/2.5/3/4/5/6/8/10 × I _r
	max. $0.8 \times I_{cw}^{-1}$	max. $0.8 \times I_{cw}^{-1}$
Tripping time t _{sd}	0.08 0.4 s	0.08/0.15/0.22/0.3/0.4 s
Characteristic ST curve	I ^o t and I ² t	
Reference point I _{ST ref}	8 × I _r	
I: Instantaneous short-circuit protection INST		
Tripping	Switched on	
Current setting I _i	1.5 15 × I _n	1.5/2/3/4/5/6/8/10/12/15 × I _n
	max. $0.8 \times I_{cs}^{-1}$	max. $0.8 \times I_{cs}^{-1}$
Maintenance mode DAS+		
Current setting I _{i DAS+}	1.5 × I _n	Activation via ETU input

ETU300 LSIG

2.0300 23.0		
Protective function	Setting range	
G: Ground fault protection GF		
Tripping	Switched on	
Method of ground fault detection	Residual	Detection of ground-fault current via summation current formation in all phases and the N conductor
Characteristic KF curve		I ⁰ t
Current setting I _g		0.2 × I _n (min. 100 A, max. 1200 A)
Tripping time t_a	0.2 s	

 $^{^{1)}}$ The setting value is limited as a function of the breaking capacity at rated operational voltage $U_{\rm e}.$

ETU600 electronic trip unit

Protective functions

			Current metering	ready4COM	Energy	PMF-II Basic	PMF-III Advanced
ETU600 LSI, ETU600 LSIG, E	TU600 I SIG Hi-7				efficiency	Power Monitoring	Power Monitoring
Protective function	Variable	Setting values with				Worldcoring	Womtoning
	setting range	rotary switch					
L: Overload protection LT							
Tripping	Can be switched on/off						-
Current setting I _r	0.4 1.0 × <i>I</i> _n	0.5/0.6/0.7/0.75/0.8/0.85/0.9/ 0.95/1.0 × I _n	•	•	•	•	•
Tripping time t_r at $6 \times I_r$	At I^2t : 0.5 30 s and at I^4t : 0.5 5 s	1/2/5/8/10/14/17/21/25 s	•	•	•	•	•
Characteristic LT curve	I²t and I⁴t						
Thermal memory	Can be switched on/off				•		-
Cooling time constant	10 and 18 × 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 × <i>I</i> _r				•		-
Delay time $t_{r,PAL}$	$0.5 \dots 1.0 \times t_{\rm r}$						-
L: Overload protection LT, ne	utral 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 _{n max}					-
Current setting I _{N PAL}	0.7 1.0 × I _N			-			-
S: Short-time-delayed short-o							
Tripping	Can be switched on/off			•	•	•	-
Current setting I _{sd}	$0.6 \times I_{\rm n} \dots 0.8 \times I_{\rm cw}$ max. $0.8 \times I_{\rm cw}$ ¹⁾	$1.5/2/2.5/3/4/5/6/8/10 \times I_r$ max. $0.8 \times I_{cw}^{1)}$	•	•	•	•	•
Tripping time t _{sd}	0.02 0.4 s	At Fix: 0.08/0.15/0.22/0.3/0.4 s At I ² t: 0.1/0.2/0.3/0.4 s	•	•	•	•	•
Characteristic ST curve	I ^o t and I ² t						
Reference point I _{ST ref}	6-12 × I _r						-
Intermittent detection	Can be switched on/off						
S: Directional short-time-dela	yed short-circuit protecti	on dST					
Tripping	Can be switched on/off						
Direction setting	Forwards: ↓ or ↑					•	-
Current setting I _{sd} FW	$0.6 \times I_{\rm n} \dots 0.8 \times I_{\rm cw}$						-
Current setting I _{sd} REV	$0.6 \times I_{\rm n} \dots 0.8 \times I_{\rm cw}$					•	-
Tripping time $t_{\rm sd}$ FW	0.05 0.4 s						-
Tripping time $t_{\rm sd}$ REV	0.05 0.4 s						-
I: Instantaneous short-circuit protection INST							
Tripping	Can be switched on/off			-		•	-
Current setting I _i	$1.5 \times I_{\rm n} \dots 0.8 \times I_{\rm cs}$ max. $0.8 \times I_{\rm cs}^{-1}$	$1.5/2/3/4/6/8/10/12/15 \times I_n$ max. $0.8 \times I_{cs}^{-1}$	•	•	•	•	•

Available, feature of the application packageCan be retrofitted

¹⁾ The setting value is limited as a function of the breaking capacity at the set rated voltage.

ETU600 LSI, ETU600 LSIG, E	TU600 LSIG Hi-Z		Current metering	ready4COM	PMF-I Energy efficiency	PMF-II Basic Power Monitoring	PMF-III Advanced Power Monitoring
Protective function	Variable setting range	Setting values with rotary switch					
Reverse power protection RP							
Tripping	Can be switched on/off						
Setting value P _{RP}	$0.05 \dots 0.5 \times P_{\rm n}$						
Tripping time t_{RP}	0.01 25 s						-
Enhanced Protective function	s EPF						
Phase unbalance current and p	hase unbalance voltage						-
Undervoltage and overvoltage							-
Active power import and active							•
Underfrequency and overfrequency	ency						•
Total harmonic distortion for cu	urrent and voltage						•
Phase sequence detection							
Maintenance mode DAS+							
Current setting I _{i DAS+}	1.5 10 × <i>I</i> _n				-		•
Current setting I _{g DAS+}	With LSIG GFx option p Residual: - Sizes 1 and 2: 100 - Size 3: 400 2000 A Direct: 15 2000 A			•	•	•	•
Tripping time $t_{g DAS+}$	0 5 s						-
Options							
Parameter set changeover	Switchable between pa	rameter set A and B					
Limit values	Undershooting, oversh	ooting		•			•
Waveform memory							•

Available, feature of the application packageCan be retrofitted

ETU600 electronic trip unit

Protective functions

ETU600 LSI			Current metering	ready4COM	PMF-I Energy efficiency	PMF-II Basic Power Monitoring	PMF-III Advanced Power Monitoring
Protective function	Variable setting range						
G: Ground fault GF alarm							
Alarm	Can be switched on/off					-	-
Current setting $I_{g \text{ alarm}}$ 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					-

Available, feature of the application packageCan be retrofitted

ETU600 LSIG			Current metering	ready4COM	PMF-I Energy efficiency	PMF-II Basic Power Monitoring	PMF-III Advanced Power Monitoring
Protective function	Variable 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: Metering 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 l_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 _g	For Fix (I ⁰ t)	0 5 s				-	
	For $I^x t$ at $3 \times I_g$	0 30 s				-	
	t _{g def} at I ^x t	0.05 0.5 s				-	
Intermittent detection	Can be switched on/off				•	•	•
G: Ground fault GF alarm							
Alarm	Can be switched on/off					•	•
Current setting $I_{g \text{ alarm}}$ 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 $t_{\rm g\; alarm}$		0 0.5 s		-		-	-

[■] Available, feature of the application package

ETU600 LSIG Hi-Z			Current metering	ready4COM	PMF-I Energy efficiency	PMF-II Basic Power Monitoring	PMF-III Advanced Power Monitoring
Protective function	Variable 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: Metering 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 (Iºt)	0 5 s	-	-		-	
, and the second	For $I^x t \ 3 \times I_g$ in protection zone UREF	0 30 s	•	•	•	-	•
	t _{g def} at I ^x t	0.05 0.5 s	-	-		-	-
Intermittent detection	Can be switched on/off		-		•	-	-
G: Ground fault GF alarm							
Alarm	Can be switched on/off			-			
Current setting $l_{g \text{ alarm}}$ with LSIG GFx option plug	Protection zone UREF	Size 2: 100 5000 A and Size 3: 400 5000 A	•	•	•	•	•
Alarm time $t_{\rm g\; alarm}$		0 0.5 s					

[■] Available, feature of the application package

ETU600 electronic trip unit

Operation, interfaces and metering function

ETU600		Current metering	ready4COM	PMF-I Energy efficiency		PMF-III Advanced Power Monitoring	Non- automatic circuit breakers
Operation and interfaces							
Rotary switch							-
Display and operating keys							-
SENTRON Powerconfig configu	ration software				•	•	-
Fieldbus communication			•		•		-
Color display			•		•		-
Bluetooth 1) and USB interface							-
Communication							
Prepared for connection of a	Status messages of the circuit breaker		•		•	•	
communications module (ready4COM feature)	Status messages of the ETU600 electronic trip unit		•	•	•	•	-
	Remote operation, requires a communications module, closing coil, shunt trip		•	•	•	-	
Communications module							
Digital input and output on th	ne ETU600 electronic trip unit						
Parameterizable input	For activating Maintenance mode DAS+ or can be used for parameter set changeover	•	•	•	•	•	-
Parameterizable output	Usable as "life contact", early trip contact, and for displaying "Parameter set B active" or "Maintenance mode DAS+ active"	•	•	•	•	•	-

 $^{^{\}circ}$ A country-specific radio license is required to operate the Bluetooth interface. Before activating the Bluetooth function, ensure that the license is available: www.siemens.com/lowvoltage/certificates

Not availableAvailable, feature of the application package

[□] Can be retrofitted

ETU600		Current metering	ready4COM	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						
Temperature		-				-
Accuracy according to IEC 61557-12						
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	-	-			-
Active power P	Class 2	-	-	-		-
Accuracy according to manufacturer's specifications						
Ground-fault current I_g with ETU600 LSI	2%	-	-	-		-
Ground-fault current $I_{\rm g}$ with ETU600 LSIG, ETU600 LSIG Hi-Z	2%		•			-
Reactive energy E _r	2%	-	-	-		-
Apparent energy $E_{\rm ap}$	2%	-	-	-		-
Reactive power Q	2%	-	-	-		-
Apparent power S	2%	-	-	-		-
Power factor PF	6%	-	-	-		-
COS φ	6%	-	-	-	•	-
Frequency f	0.5%	-	-	-		-
Current unbalance	2.5%	-	-	-		•
Voltage unbalance	1.5%	-	-	-		•
Total harmonic distortion THD-I 1)	2%	-	-	-	-	•
Total harmonic distortion THD-U ¹⁾	2%	-	-	-	-	•
Harmonic I, U ¹⁾	2%	-	-	-	-	•

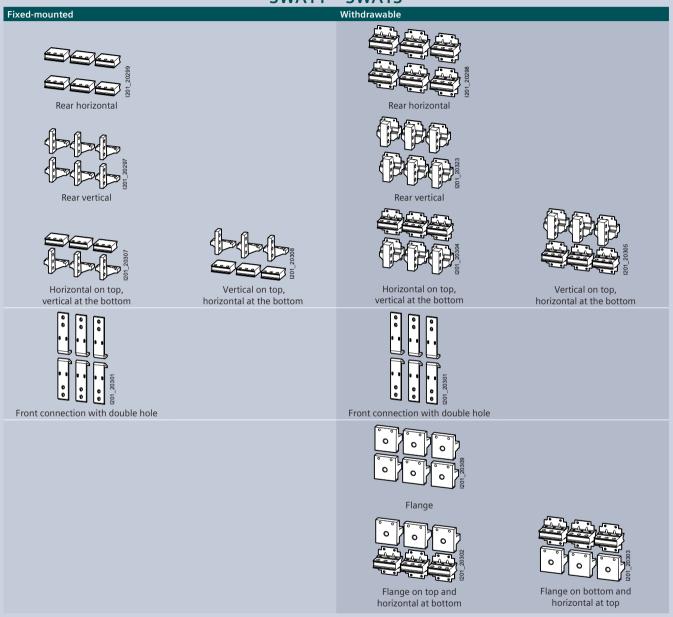
 $^{^{1)}~}$ For 2nd to 15th harmonic $\pm 2\%$ and for 16th to 31st harmonic $\pm 5\%$

Available, feature of the application packageNot available

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.







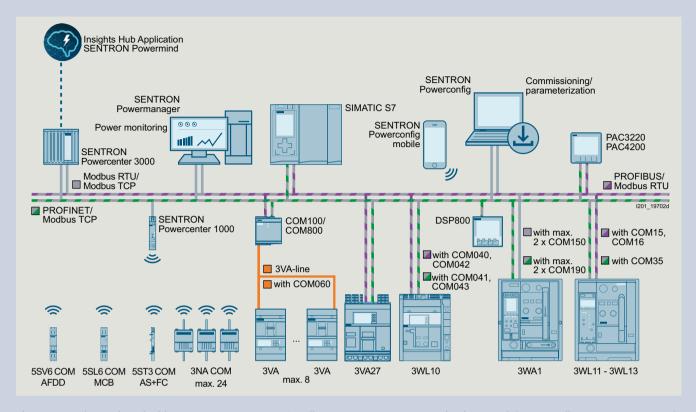
Screw connection (optional)

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
 - Non-automatic circuit breaker with ETU300 LSI/LSIG with 4 blocks

For dimension drawings, see Equipment Manual – 3WA1 air circuit breakers www.siemens.com/lowvoltage/manuals (109763061)

Communication



The 3WA can be equipped with up to two PROFINET IO/Modbus TCP COM190 communications modules or Modbus RTU COM150 and up to five IOM230 digital input/output modules.

For the optional communications interface with the COM190 or COM150 communications module, a circuit breaker with the "ready4COM" feature must be selected as the circuit breaker/non-automatic air circuit breaker. The first COM190 or COM150 communications module must be selected via a Z option. If you want to use a further COM190 or COM150 communications module, this must be ordered separately as an accessory. Both COM190 or COM150 communications 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 – 3WA1 air circuit breakers www.siemens.com/lowvoltage/manuals (109763061)

System overview, page 1/30

Selection guide

Components pre-installed at the factory

The following components are contained in the 3WA air circuit breakers as standard (if the condition is fulfilled) and do not have to be configured:

Components	Condition
Ready-to-close signaling switch (S20)	Installed at the factory in all 3WA1 as standard
1st trip alarm switch (S24)	Installed at the factory in all 3WA1 circuit breakers (incl. ETU) as standard
Spring charge signaling switch (S21)	Installed at the factory in all 3WA1 as standard when using a spring charging motor
Shutters	Installed at the factory in all 3WA1 withdrawable circuit breakers as standard

Manuals for downloading





You will find further information under: www.siemens.com/lowvoltage/manuals

Equipment Manual:

• 3WA1 air circuit breakers (109763061)

System Manual:

• 3WA air circuit breaker communication (109792368)

Configuration Manual:

• Low voltage protection devices selectivity-tables (109748621)





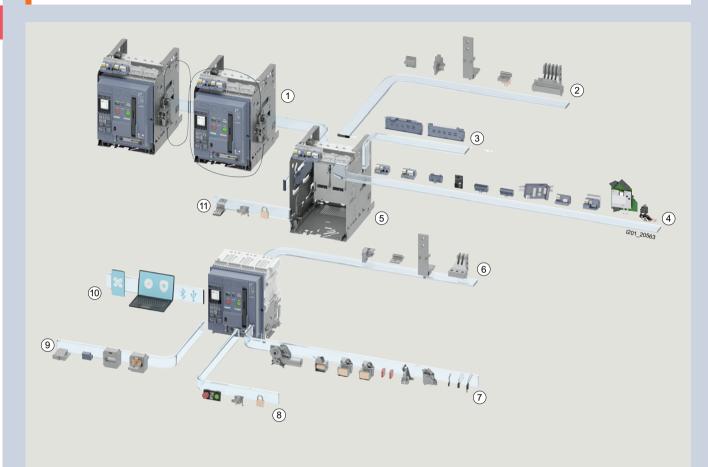


System overview, page 1/30

3WA11 – 3WA13 system overview

Circuit breakers and non-automatic circuit breakers 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

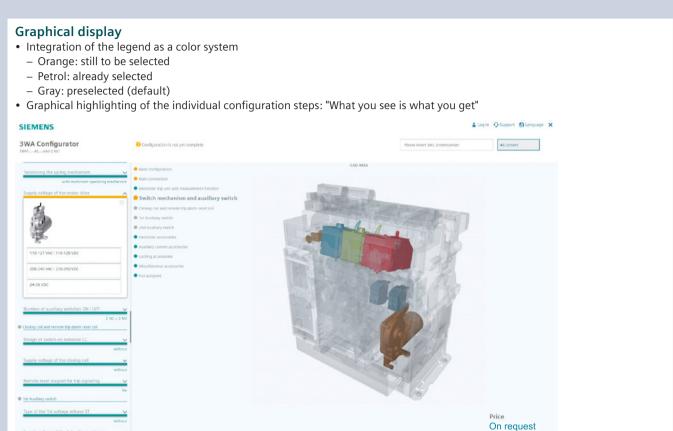


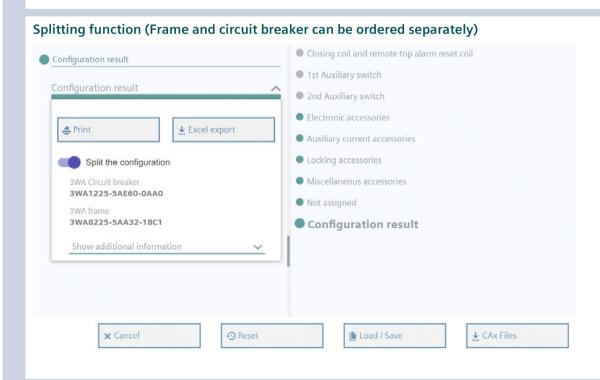
- 1 Interlocking solutions with Bowden cable
- (2) Main connection variants for guide frame
- (3) Position signaling switch (PSS) for the guide frame
- 4 Interfaces/COM-modules/Aux. terminals
- (5) Guide frame with shutter
- (6) Main connection variants for fixed-mounted version

- 7 Internal accessories: aux. release, spring charging motor, aux. contacts
- (8) Locking solutions for fixed-mounted version
- 9 Electronic trip units (ETU)
- 10 Digital function packages can be activated for the ETU
- (11) Interlocking solutions for withdrawable version

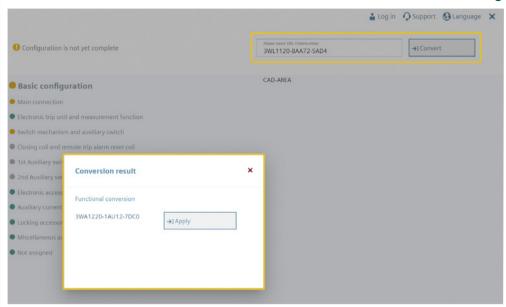
Online configurator highlights

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





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



Protective and metering functions for 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

Digit						1–	7	8	9	10	11	12	1 –	3 14	15	16	-	17	Price difference in € per PU	Price group
Electi	oni	c t	rip	units																
	SZ 1	SZ 2	SZ 3																	
ETU300				LSI						В										1CE
	-	•	•	LSIG						С										1CE
ETU600				LSI						Е										1CE
				LSIG						F										1CE
	-	•	•	LSIG Hi-Z						C E F G										1CE
prote funct	ctiv ion	e a s fo	inc or o	d mete circuit	breakers															
ETU300/ ETU600	Prote	ective	e fun	ction/Curr	ent metering				Α											1CE
ETU600					4COM feature				С											1CE
				itomatic	PMF-I Energy	Voltage tap			Ļ											1CE
				rs up to etering	efficiency PMF-II Basic	Voltage tap		om	E M											1CE
	func	tion,	inter	nal voltage	Power Monitoring	Voltage tap	at botto	om	F											1CE
	tap II	1 the	circu	iit breaker, of the	PMF-III Advanced	Voltage tap	at top		N											1CE
	ETU6	00 vi ge ta	a the	e VTM680 odule and	Power Monitoring	Voltage tap	at botto	om	G											1CE
				breakers ages and in	PMF-I Energy efficiency	Voltage tap	at top		U											1CE
	the 6	90-V	IT sy	stem	-	Voltage tap	at botto	om	Q											1CE
	(with	met	ering	function,	PMF-II Basic	Voltage tap	at top		٧											1CE
	circu	it bre	aker,	e tap in the , VTM640	Power Monitoring	Voltage tap	at botto	om	R											1CE
		ge ta	p mo	odule and	PMF-III Advanced Power Monitoring	Voltage tap	at top at botto	om	W S											1CE 1CE

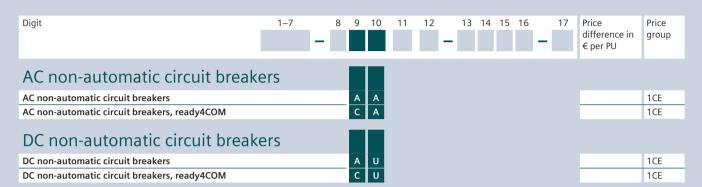
Note:

- Protective function LSI
 - Incl. LSI option plug (can be upgraded to LSIG using LSIG option plug)
- · Protective function LSIG
 - Incl. LSI option plug
- Protective function LSIG Hi-Z
 - Version incl. second tripping solenoid (F6) with reclosing lockout and incl. external trip controller ETC600
- ETU600 current metering:
 - Electronic trip unit with protective function, without communication function/BSS200 (BSS200 retrofittable), without metering function and without enhanced protective functions (functions retrofittable: voltage tap (only at the bottom), voltage tap module and metering/protective functions required as licenses, see accessories and spare parts)
- Function ready4COM:
 - Circuit breaker including BSS200 breaker status sensor
- PMF Level:
 - Electronic trip unit including metering function according to IEC 61557-12 and enhanced protective functions (for more information, see ETU600 electronic trip unit, page 1/20)
 - Incl. voltage tap module VTM and voltage tap
 - Inkl. Breaker Status Sensor BSS200 (ready4COM)

For subsequent upgrading to PMF level, measuring accuracy according to manufacturer's specifications.

Non-automatic circuit breakers with and without ready4COM

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



Note:

- Function ready4COM:
 - Circuit breaker including BSS200 breaker status sensor (can be retrofitted)

Operating mechanism, auxiliary switch and auxiliary release

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

Digit	1–7	8	9 10) 11	12	- I	3 1	14	15 1	6 _	17	Price difference in € per PU	Price group
Operating mechani	sms and auxiliary	switch	nes					ı					
Manual recharging of the stored energy mechanism	Without spring charging motor	2 NO, 2 4 NO, 4				_	0 1						1CE
Recharging of the stored energy mechanism by spring charging	24 30 V DC	2 NO, 2	NC				2						1CE
motor (M)	48 60 V DC	4 NO, 4 4 NO, 4					5 6	H					1CE
	110 127 V AC/	2 NO, 2					3	H					1CE
	110 125 V DC	4 NO, 4					7						1CE
	208 240 V AC/	2 NO, 2	NC				4						1CE
	220 250 V DC	4 NO, 4	NC				8						1CE
Closing coils and re	mote trip alarm re Without remote trip alarm reset coil	set co	ils ¹⁾	2)				A					1CE
With closing coil	Without remote trip alarm	24 30	V DC					В					1CE
(CC/CC-COM) ³⁾ for uninterrupted duty, 100% OP	reset coil	48 60					_	С					1CE
Tor diffice rupted duty, 100 % Of		110 1					_	D					1CE
		208 2		/220	250 V [DC		E					1CE
	With remote trip alarm reset coil (RR)	24 30						F					1CE
	for momentary duty 1% OP	48 60		1110	125 1/1	0.0	_	G				-	1CE
		110 1 208 2					_	H J					1CE
With closing coil (CC)	Without remote trip alarm	24 30			250 V L	DC		K				-	1CE
for momentary duty,	reset coil	48 60						Ĺ					1CE
5% OP		110 1		/110	125 V [DC	_	M					1CE
		208 2					_	N					1CE
	With remote trip alarm reset	24 30	V DC					Р					1CE
	coil (RR)	48 60	V DC					Q					1CE
	for momentary duty 1% OP	110 1	27 V AC	/110	125 V [DC		R					1CE
		208 2	40 V AC	/220	250 V [DC		s					1CE

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.

When using the remote trip alarm leset con, the reclosing lockdurs generally deactivated. The circuit breaker can be closed again immediately in the ready4COM feature is provided, the communication-capable closing coils (CC-COM) and/or shunt trips (ST-COM) are installed at the factory.

Digit	1–7	-	8 9	10	11	12	13	14	15	16	17		Price difference in € per PU	Price group
2nd auxiliary releases									П					
Without 2nd auxiliary release									Α	ı		Т		1CE
With shunt trip (ST),		24	30 V D	C					В	ľ				1CE
uninterrupted duty 100% OP		48	60 V D	С					С					1CE
		110	127 \	/ AC/1	10 1	25 V D	С		D			П		1CE
		208	240 \	/ AC/22	20 2	50 V D	С		Е					1CE
With shunt trip (ST),		24	30 V D	С					F					1CE
momentary duty 5% OP		48	60 V D	C					G					1CE
		110	127 \	/ AC/1	10 1	25 V D	C		Н					1CE
		208	240 \	/ AC/22	20 2	50 V D	C		J					1CE
With undervoltage release (UVR) 1),		24	30 V D	C					L					1CE
instantaneous (\leq 0.08 s) and short-time delayed (\leq 0.2 s)		48	60 V D	C					N					1CE
		110	127 \	/ AC/1	10 1	25 V D	C		Р					1CE
	208 240 V AC/220 250 V DC													1CE
		380	415 \	/ AC					R					1CE
With undervoltage release (UVR-t),		48 V	DC						S					1CE
adjustable delay 0.2 3.2 s		60 V	DC						Т					1CE
		110	127 \	/ AC/1	10 1	25 V D	C		U					1CE
		208	240 \	/ AC/22	20 2	50 V D	C		٧					1CE
		380	415 \	/ AC					W					1CE
1st auxiliary releases									-					
Without 1st auxiliary release										0				1CE
With shunt trip (ST/ST-COM) ²⁾ ,		24	. 30 V D	C						1				1CE
uninterrupted duty 100% OP		48	. 60 V D	С						2				1CE
		110	127 \	/ AC/1	10 1	25 V D	С			3				1CE
		208	240 \	/ AC/2:	20 2	250 V D	С			4				1CE
With shunt trip (ST),		24	. 30 V D	C						5				1CE
momentary duty 5% OP		48	. 60 V D	C						6				1CE
		110	127 \	/ AC/1	10 1	25 V D	С			7				1CE
		208	240 \	/ AC/2	20 2	250 V D	С			8				1CE

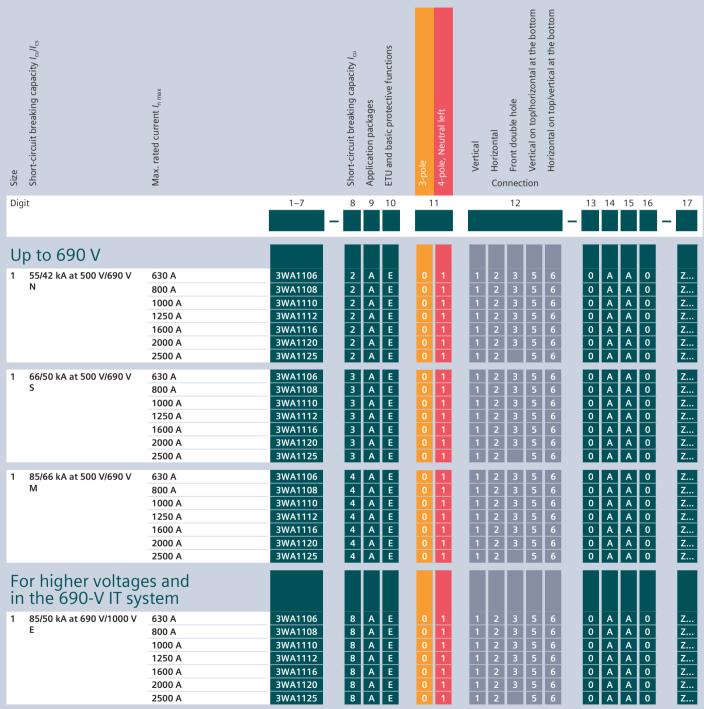
UVR instantaneous for 30 V DC and 60 V DC can only be supplied separately.

Please order as follows: for 30 V DC 3WL9111-0AE02-0AA0; for 60 V DC 3WL9111-0AE07-0AA0.

If the ready4COM feature is provided, the communication-capable closing coils (CC-COM) and/or shunt trips (ST-COM) are installed at the factory.

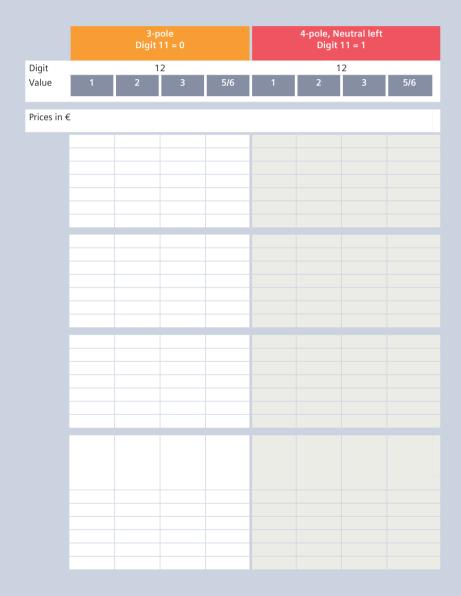
Basic configuration for AC circuit breakers, fixed-mounted, size 1

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



Reduction of the rated current up to $I_n = 250$ A possible with option plug (Z = B02 – B20)

Protective and metering functions for circuit breakers, from page 1/34 onwards Operating mechanism, auxiliary switch and auxiliary release, from page 1/36 onwards



Basic configuration for AC circuit breakers, fixed-mounted, size 2

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



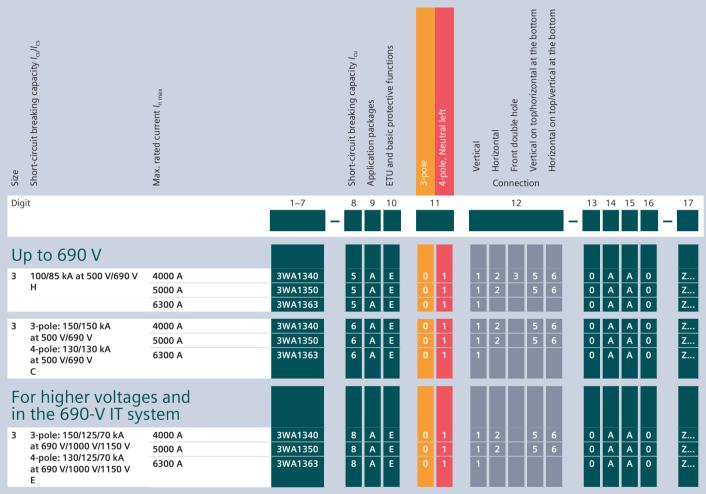
Reduction of the rated current up to $I_n = 250$ A possible with option plug (Z = B02 – B20)

Protective and metering functions for circuit breakers, from page 1/34 onwards Operating mechanism, auxiliary switch and auxiliary release, from page 1/36 onwards

		3-p Digit	ole 11 = 0			4-pole, N Digit	eutral left 11 = 1	
Digit		1	2		-	1	2	
Value	1	2	3	5/6	1	2	3	5/6
Prices in €	Ē							

Basic configuration for AC circuit breakers, fixed-mounted, size 3

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



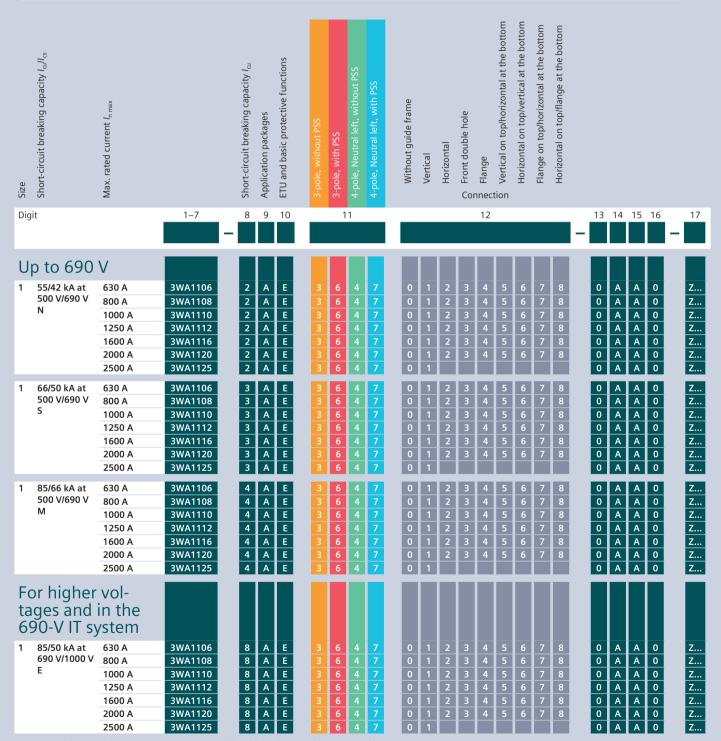
Reduction of the rated current up to $I_n = 250$ A possible with option plug (Z = B02 – B20)

Protective and metering functions for circuit breakers, from page 1/34 onwards
Operating mechanism, auxiliary switch and auxiliary release, from page 1/36 onwards

		3-p Digit	ole 11 = 0		4-pole, Neutral left Digit 11 = 1								
Digit		1	2			1	2						
Value	1	2	3	5/6	1	2	3	5/6					
Prices in €	Ē												

Basic configuration for AC circuit breakers, withdrawable, size 1

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



Reduction of the rated current up to $I_{\rm n}$ = 250 A possible with option plug (Z = B02 – B20)

Position signaling switch (PSS) for circuit breakers without ready4COM: 3 × connected position, 2 × test position, 1 × disconnected position

Position signaling switch (PSS) for circuit breakers with ready4COM:

^{1 ×} connected position, 1 × test position, 1 × disconnected position + message through communications interface for disconnected position and for "not available".



Protective and metering functions for circuit breakers, from page 1/34 onwards
Operating mechanism, auxiliary switch and auxiliary release, from page 1/36 onwards

Basic configuration for AC circuit breakers, withdrawable, size 2

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



Reduction of the rated current up to $I_n = 250$ A possible with option plug (Z = B02 – B20)

Position signaling switch (PSS) for circuit breakers without ready4COM:

Protective and metering functions for circuit breakers, from page 1/34 onwards

Operating mechanism, auxiliary switch and auxiliary release, from page 1/36 onwards

^{3 ×} connected position, 2 × test position, 1 × disconnected position

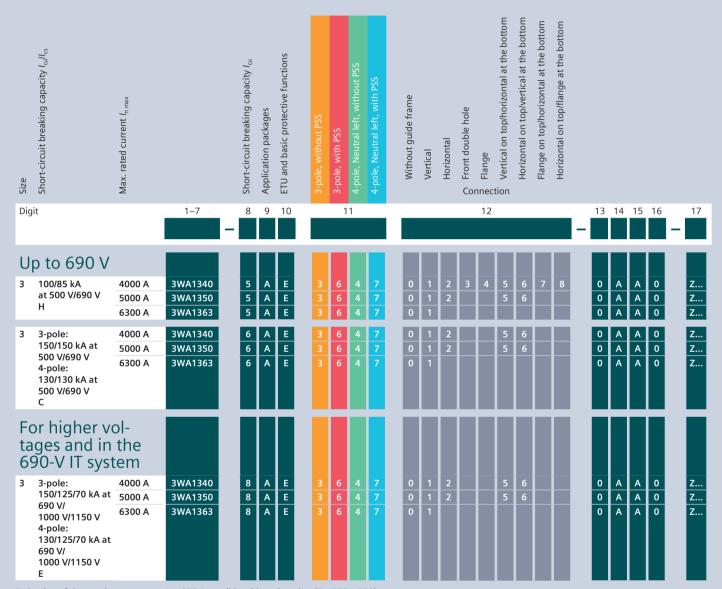
Position signaling switch (PSS) for circuit breakers with ready4COM:

^{1 ×} connected position, 1 × test position, 1 × disconnected position + message through communications interface for disconnected position and for "not available".

	3-pole without PSS Digit 11 = 3				3-pole with PSS Digit 11 = 6			4-pole, Neutral left, without PSS Digit 11 = 4					4-pole, Neutral left, with PSS Digit 11 = 7					
Digit			12			12			12						12			
Value	0	1	2/4/7/8	3	5/6	1	2/4/7/8	3	5/6	0	1	2/4/7/8	3	5/6	1	2/4/7/8	3	5/6
Prices i	in €																	

Basic configuration for AC circuit breakers, withdrawable, size 3

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



Reduction of the rated current up to $I_n = 250$ A possible with option plug (Z = B02 – B20)

Position signaling switch (PSS) for circuit breakers without ready4COM:

Protective and metering functions for circuit breakers, from page 1/34 onwards
Operating mechanism, auxiliary switch and auxiliary release, from page 1/36 onwards

 $^{3 \}times$ connected position, $2 \times$ test position, $1 \times$ disconnected position

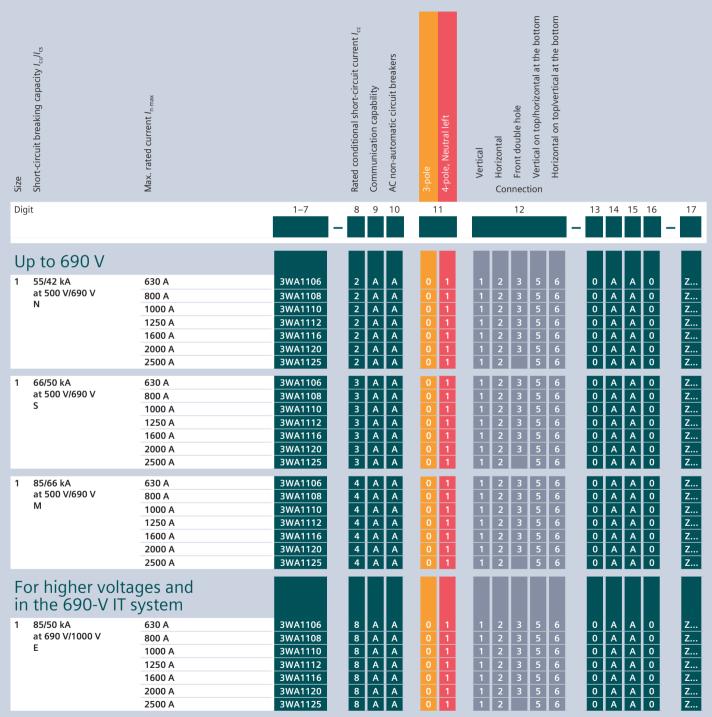
Position signaling switch (PSS) for circuit breakers with ready4COM:

^{1 ×} connected position, 1 × test position, 1 × disconnected position + message through communications interface for disconnected position and for "not available".

	3-pole without PSS Digit 11 = 3				3-pole with PSS Digit 11 = 6				4-pole, Neutral left, without PSS Digit 11 = 4					4-pole, Neutral left, with PSS Digit 11 = 7				
Digit			12			•	1	2				12				1.	2	
Value	0	1	2/4/7/8	3	5/6	1	2/4/7/8	3	5/6	0	1	2/4/7/8	3	5/6	1	2/4/7/8	3	5/6
Prices	in €																	

Basic configuration for AC non-automatic circuit breakers, fixed-mounted, size 1

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



Non-automatic circuit breakers with and without ready4COM, from page 1/35 onwards Operating mechanism, auxiliary switch and auxiliary release, from page 1/36 onwards

		3-p Digit	ole 11 = 0		4-pole, Neutral left Digit 11 = 1					
Digit			2			1				
Value	1	2	3	5/6	1	2	3	5/6		
	_	_		_		_				
Prices in €	E									

Basic configuration for AC non-automatic circuit breakers, fixed-mounted, size 2

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

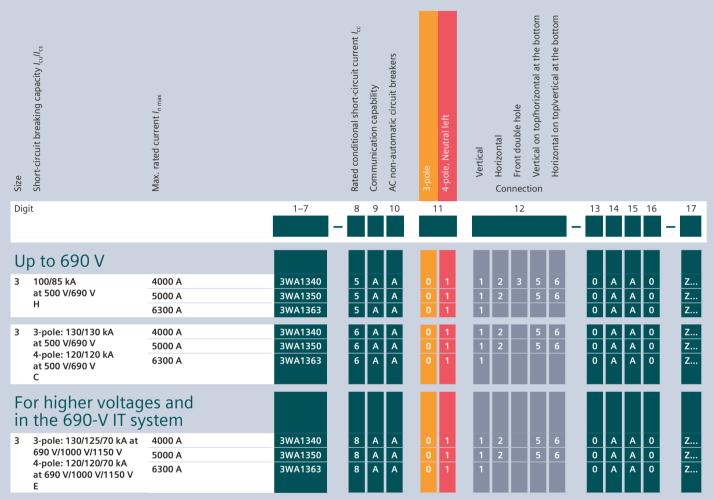


Non-automatic circuit breakers with and without ready4COM, from page 1/35 onwards Operating mechanism, auxiliary switch and auxiliary release, from page 1/36 onwards

		3-p Digit	ole 11 = 0		4-pole, Neutral left Digit 11 = 1						
Digit		1	2		12						
Value	1	2	3	5/6	1	2	3	5/6			
Prices in €											

Basic configuration for AC non-automatic circuit breakers, withdrawable, size 3

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

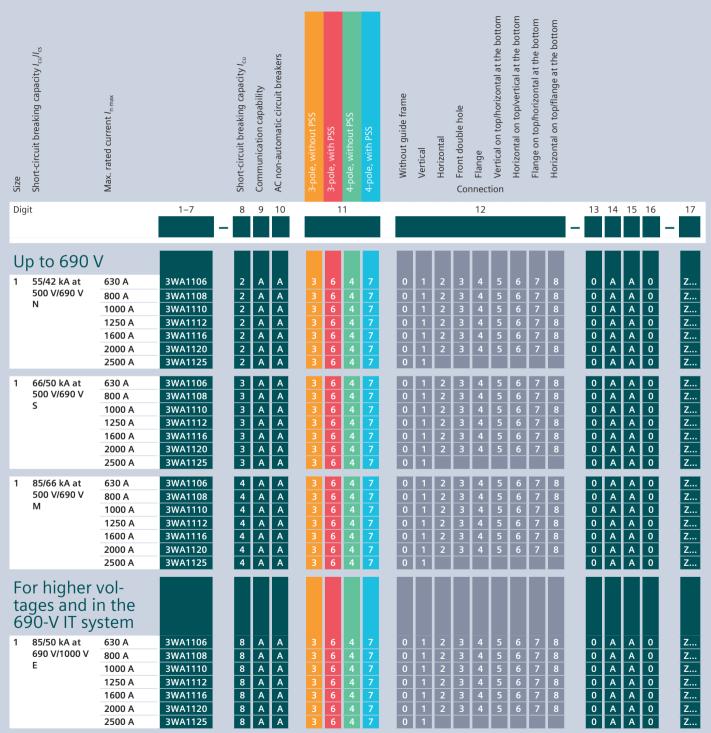


Non-automatic circuit breakers with and without ready4COM, from page 1/35 onwards Operating mechanism, auxiliary switch and auxiliary release, from page 1/36 onwards

		3-p Digit	ole 11 = 0		4-pole, Neutral left Digit 11 = 1						
Digit		1	2		12						
Value	1	2	3	5/6	1	2	3	5/6			
Prices in €											

Basic configuration for AC non-automatic circuit breakers, withdrawable, size 1

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



Position signaling switch (PSS) for circuit breakers without ready4COM:

 $^{3\}times$ connected position, $2\times$ test position, $1\times$ disconnected position

Position signaling switch (PSS) for circuit breakers with ready4COM:

^{1 ×} connected position, 1 × test position, 1 × disconnected position + message through communications interface for disconnected position and for "not available".

The structure shown below shows how the price is formed depending on digits 11 and 12 of the article number (price group 1CE). You will find varying price changes updated on a daily basis in SiePortal www.siemens.com/lowvoltage/product-catalog



Non-automatic circuit breakers with and without ready4COM, from page 1/35 onwards Operating mechanism, auxiliary switch and auxiliary release, from page 1/36 onwards

Structure of the article numbers

Basic configuration for AC non-automatic circuit breakers, withdrawable, size 2

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



Position signaling switch (PSS) for circuit breakers without ready4COM: $3 \times \text{connected position}$, $2 \times \text{test position}$, $1 \times \text{disconnected position}$

Non-automatic circuit breakers with and without ready4COM, from page 1/35 onwards Operating mechanism, auxiliary switch and auxiliary release, from page 1/36 onwards

Position signaling switch (PSS) for circuit breakers with ready4COM:

1 × connected position, 1 × test position, 1 × disconnected position + message through communications interface for disconnected position and for "not available".

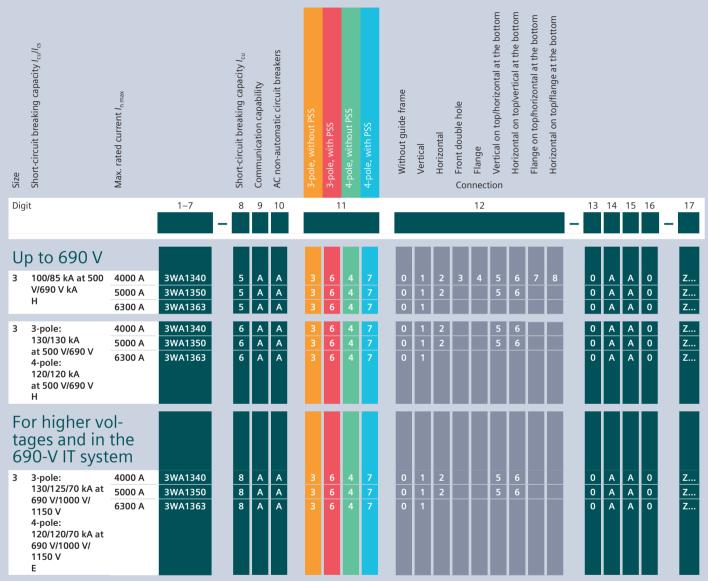
The structure shown below shows how the price is formed depending on digits 11 and 12 of the article number (price group 1CE). You will find varying price changes updated on a daily basis in SiePortal www.siemens.com/lowvoltage/product-catalog

					a 1 51 acc					4-pole, without PSS								
		3-pol D	e withou igit 11 =	it PSS 3		3-pole with PSS Digit 11 = 6				4-pol D	e, withou ligit 11 =	ıt PSS 4			4-pole, v Digit	with PSS 11 = 7		
Digit			12				1	2				12				1	2	
Value	0	1	2/4/7/8	3	5/6	1	2/4/7/8	3	5/6	0	1	2/4/7/8	3	5/6	1	2/4/7/8	3	5/6
	_															_		
Prices i	n€																	

Structure of the article numbers

Basic configuration for AC non-automatic circuit breakers, withdrawable, size 3

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



Position signaling switch (PSS) for circuit breakers without ready4COM:

Non-automatic circuit breakers with and without ready4COM, from page 1/35 onwards Operating mechanism, auxiliary switch and auxiliary release, from page 1/36 onwards

 $^{3 \}times$ connected position, $2 \times$ test position, $1 \times$ disconnected position Position signaling switch (PSS) for circuit breakers with ready4COM:

^{1 ×} connected position, 1 × test position, 1 × disconnected position + message through communications interface for disconnected position and for "not available".

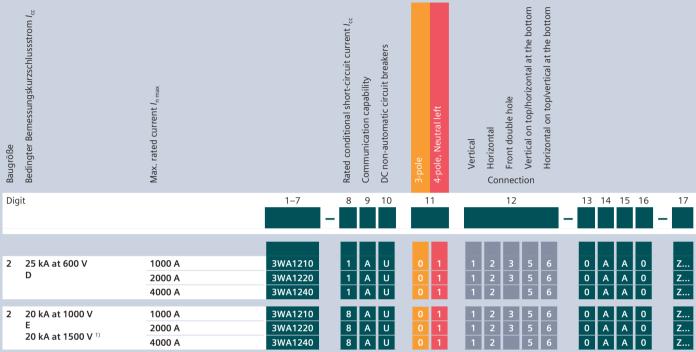
The structure shown below shows how the price is formed depending on digits 11 and 12 of the article number (price group 1CE). You will find varying price changes updated on a daily basis in SiePortal www.siemens.com/lowvoltage/product-catalog

	3-pole without PSS Digit 11 = 3			3-pole with PSS Digit 11 = 6				4-pol	e, withou igit 11 =	ıt PSS 4			4-pole, v Digit	vith PSS 1 = 7				
Digit			12				1					12				1		
Value	0	1	2/4/7/8	3	5/6	1	2/4/7/8	3	5/6	0	1	2/4/7/8	3	5/6	1	2/4/7/8	3	5/6
Prices i	Prices in €																	

Structure of the article numbers

Basic configuration for DC non-automatic circuit breakers, fixed-mounted, size 2

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



^{1) 1500} V DC only for 4-pole circuit breakers and for breaking capacity E

Non-automatic circuit breakers with and without ready4COM, from page 1/35 onwards Operating mechanism, auxiliary switch and auxiliary release, from page 1/36 onwards

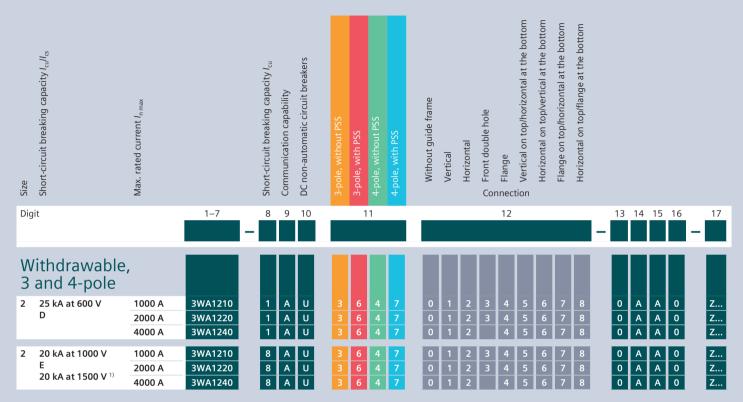
The structure shown below shows how the price is formed depending on digits 11 and 12 of the article number (price group 1CE). You will find varying price changes updated on a daily basis in SiePortal www.siemens.com/lowvoltage/product-catalog

		3- _F Digit	oole 11 = 0		4-pole, Neutral left Digit 11 = 1					
Digit	oigit 12			12						
Value	1	2	3	5/6	1	2	3	5/6		
Prices in €										

Structure of the article numbers

Basic configuration for DC non-automatic circuit breakers, withdrawable, size 2

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



^{1) 1500} V DC only for 4-pole circuit breakers and for breaking capacity E

Position signaling switch (PSS) for circuit breakers without ready4COM:

Non-automatic circuit breakers with and without ready4COM, from page 1/35 onwards Operating mechanism, auxiliary switch and auxiliary release, from page 1/36 onwards

^{3 ×} connected position, 2 × test position, 1 × disconnected position

Position signaling switch (PSS) for circuit breakers with ready4COM:

^{1 ×} connected position, 1 × test position, 1 × disconnected position + message through communications interface for disconnected position and for "not available".

The structure shown below shows how the price is formed depending on digits 11 and 12 of the article number (price group 1CE). You will find varying price changes updated on a daily basis in SiePortal www.siemens.com/lowvoltage/product-catalog

		3-po [le withou Digit 11 =	t PSS 3			3-pole v Digit	vith PSS 11 = 6			4-pol E	e, withou Digit 11 =	ut PSS 4		4	-pole, wi Digit		SS
Digit			12				1	2				12				1	2	
Value	0	1	2/4/7/8	3	5/6	1	2/4/7/8	3	5/6	0	1	2/4/7/8	3	5/6	1	2/4/7/8	3	5/6
Prices in €	Ē																	

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 number and Order code Surcharge Price								
		le numbe	er a		Order code	in €	group	
indicate the appropriate o	rder code(s).			3WAZ		per PU		
which is equal to the maxim	of the circuit breaker		onic 1	rip unit is equipped with an option plug				
		SZ1	SZ2	8Z3				
Outing about	Rated current I _n				D02		1.05	
Option plug	250 A 315 A	-	-	-	B02 B03	-	1CE	
		-	-	_	B03	-	1CE	
	400 A 500 A	-		_	B04 B05		1CE	
	630 A			_	B05		1CE	
	800 A			- -	B08		1CE	
	1000 A		-		B10		1CE	
	1250 A		-	-	B10		1CE	
	1600 A		-	-	B12		1CE	
	2000 A		-	-	B20		1CE	
	2500 A		-	- -	B25		1CE	
	3200 A	_	ī	-	B32		1CE	
	4000 A	_	_	•	B40		1CE	
	5000 A	_	-	•	B50		1CE	
IOM230 digital input Module with 2 inputs and 3 outputs	A module including adapter f the circuit breaker, connectin can be operated at the same	ig cables ar time. Furth	nd C ı ıer m	n the secondary disconnect terminal system of ubicleBUS ² terminating resistor; five modules nodules must be ordered separately as	F23		1CE	
751200 zono solostiv		breaker ar		er for mounting on the secondary disconnect e adapter for external mounting on a DIN rail.				
							4.05	
Zone-selective interlocking with ETU600		al system o		cluding adapter for mounting on the circuit breaker, connecting cables and	F20		1CE	
COM190 communica								
The precondition for connect	tion is a circuit breaker or non-ai	utomatic ci	rcuit	breaker with the "ready4COM" feature				
PROFINET IO/Modbus TCP ²⁾ 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 CubicleBUS ² terminating resistor; two communications modules ce be run at the same time. The second communications module must be ordered separately as 3WA9111-0EC13.							1CE	
COM150 communica								
The precondition for connect	tion is a circuit breaker or non-ai	utomatic ci	rcuit	breaker with the "ready4COM" feature				
Modbus RTU	A module with terminal conn breaker internal. A module in terminal system of the circuit resistor; two communication:	F15		1CE				
communications module must be ordered separately as 3WA9111-0EC15.								

¹⁾ When ordering this option for a circuit breaker or a non-automatic air circuit breaker of the installation type "withdrawable version without guide frame", this must be used as the order option for the guide frame.

2) For connecting the Ethernet cable, connectors angled 90° to the right are recommended, e.g. PROFINET connector 6GK1901-1BB20-2AA0.

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 indicate the appropriate or	"-Z" to the complete article nu der code(s).		Z	Order code	Surcharge in € per PU	Price group		
Automatic reset Only possible for circuit break	ers with an electronic trip unit							
Automatic reset	Automatic reset of the reclosing loc ordering a circuit breaker with a rer		option is not required when	K01		1CE		
Special approval acco	rding to UL 489b in addi	tion to IEC 60947						
DC non-automatic circuit	Sizes 2, 4-pole, 2000 A with $I_{cc} = 20$			U09				
breakers up to 1500 V	Available for:	3WA1220-8AU12-		-		1CE		
		3WA1220-8AU42-				1CE		
		3WA1220-8AU72-		-		1CE		
	3WA1220-8CU12-							
			1CE					
		3WA1220-8CU72-				1CE		
Rear vertical main cor phases	nnections (top and botto	m) with equal pole	spacing of the					
AC circuit breakers/AC	Sizes 2, 4-pole, 4000 A breaking ca	pacity S/M/H/E		D04				
non-automatic circuit breakers and AC guide frames	N L1 L2	Standard	L1 – N 160 mm	-		1CE		
Sieukers und Ne galde Humes		JII .	L1 – L2 130 mm	-		1CE		
	7000 7000	5 2	L1 – L3 160 mm			1CE		
	N _ L1 _ L2_	Option	L1 – N 130 mm	-		1CE		
		99907	L1 – L2 160 mm			1CE		
			L2 – L3 160 mm			1CE		
Tinned connections	Size 1, 2, 3	3-pole		D08		1CE		
		4-pole				1CE		
	Size 2	3-pole				1CE		
		4-pole				1CE		
	Size 3	3-pole				1CE		
		4-pole				1CE		
Broadened vertical material of the control of the c	ain circuit connection der for a withdrawable circuit breaker	or when ordering the guide	frame separately					
Main circuit connection	For 3WA1, 4000 A, size 2	Compatible with 3WL1240	for retrofit	D01		1CE		
Circuit breakers withou	out Bluetooth function							
Circuit breakers without Bluetooth function	In this version of the circuit breaker retrofitted by replacing the electron		Neither can Bluetooth be	D80		1CE		

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 number and	Order code	Surcharge	
indicate the appropriate or	der code(s). 3WAZ		in € per PU	group
Secondary disconnect Can be ordered for circuit brea	t terminal system akers with guide frames and for guide frames			
Manual connector with screw terminal	With screw connection instead of push-in connection (standard)	N03		1CE
Manual connector for ring lugs	With screw connection for ring lugs instead of push-in connection (standard)	N05		1CE
Mechanical operating	cycles counters			
Mechanical operating cycles counter, 5-digit	Can be used with all circuit breakers and non-automatic circuit breakers including those without a spring charging motor	C01		1CE
Signaling switches				
Trip alarm switch	2nd trip alarm switch (S25) 1st trip alarm switch included as standard for circuit breakers Can only be used with circuit breakers with an electronic trip unit without ready4COM.	К06		1CE
Pushbuttons/disconne arc chute cover	ect switches/closing lockouts/special packaging/			
Emergency OPEN button	Mushroom pushbutton instead of the mechanical OFF pushbutton	C25		1CE
Local electric close on	This prevents unauthorized electrical closing from With sealing cap	C11		1CE
operator panel (S10)	the operator panel. Mechanical closing and remote closing remain possible. Only possible in combina- tion with a closing coil (CC) With CES lock	C12		1CE
Motor disconnect switch on operator panel (S12)	This prevents automatic charging of the stored energy mechanism by the spring charging motor	C24		1CE
Cardboard packaging with wat	er-repellent coating on corrugated cardboard (moisture protection)	P61		1CE
Arc chute cover mounted on	Size 1 3-pole	R10		1CE
the guide frame Not available for:	4-pole	_		1CE
Fixed-mounted	Size 2 3-pole 4-pole			1CE 1CE
Breaking capacity C, E and D	Size 3 3-pole	_		1CE
• 4000 A size 2	4-pole			1CE
Cover for electronic trip unit	Top cover with safety lock (The lower sealable cover of the rotary coding switch is included in the scope of supply of the circuit breaker)	F40		1CE
for applications with a Used in converter applications can only be used for circuit br — External 24 V DC supply rec — Undervoltage release requi — Additionally contains a rela	s with high harmonic components; eakers with an ETU600 electronic trip unit quired			
Internal current sensors	Size 1 <u>new</u> , 2, 3	K60		1CE
Mechanical interlocks • Interlocking module with Bow				
Mechanical interlocks	For fixed-mounted breakers	S55		1CE
	For withdrawable circuit breakers with guide frame	R55		1CE
	For guide frames (ordered separately)	R56		1CE
	For withdrawable circuit breakers (ordered separately)	R57		1CE

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 entions add	I " 7" to the complete article au	mborand	Order code	Surcharge	Price			
indicate the appropriate or	I "-Z" to the complete article nu		Order code	in €	group			
indicate the appropriate of	der code(3).	3WAZ		per PU				
Locking provisions (fo	or fixed-mounted and wi	thdrawable circuit breakers)						
Locking provisions	Against unauthorized closing	Made by CES	501		1CE			
	from the operator panel of the circuit breaker. The	Made by IKON Assembly kit FORTRESS or CASTELL 1)	S03 S05		1CE			
	disconnector unit fulfills the	Assembly kit for padlocks 2)	S07		1CE			
	requirements for main circuit	Made by RONIS	S08		1CE			
	breakers according to EN 60204-1	Made by PROFALUX	S09		1CE			
Locking provisions	For charging handle with padlock 2		S33		1CE			
Locking provisions (for withdrawable circuit breaker)								
Locking provision to prevent	ocking provision to prevent Safety lock for mounting onto Made by CES							
movement of the withdrawa-	the circuit breaker	Made by PROFALUX	S75		1CE			
ble circuit breaker		Made by RONIS	S76		1CE			
The disconnector unit fulfills the frame, active in the connected Not possible in combination w Only possible on complete ord								
Made by CES			R61		1CE			
Made by RONIS			R68		1CE			
Made by PROFALUX			R60		1CE			
	·	85" or "R86". with a guide frame or when ordering the guide frame						
For fixed-mounted circuit breakers	To prevent opening of the control of	abinet door in ON position	S30		1CE			
For withdrawable circuit	To prevent opening of the control of	•	R30		1CE			
breakers	To prevent activation when the cor		R40 R50		1CE			
Locking provisions to prevent movement of the withdrawable circuit breaker in disconnected position Consisting of Bowden cable and lock in the control cabinet door Not possible in combination with order code "R30", "R50", "R68" or "R60" Only possible for a complete order for a circuit breaker with a guide frame or when ordering the guide frame separately								
Made by CES			R81		1CE			
Made by PROFALUX			R85		1CE			
Made by RONIS			R86		1CE			
Increased degree of p	protection for installation	in a control cabinet						
Door sealing frame for degree		T40		1CE				

¹⁾ Locks must be ordered from the manufacturer.

Padlock not included in the scope of supply.
 Not available in combination with R50
 Not available in combination with R40

Accessory options

Further technical specifications

Manual operating mechanism	3WA11 – 3WA13
Switching on/charging energy store	
Maximum force required to operate the hand lever	≤ 230 N
Required number of strokes on the hand lever	9

Closing coils (CC/CC-COM)		3WA11 – 3WA13	
Rated operational voltage			
Rated control supply voltage U_s		24 30 V DC	
		48 60 V DC	
		110 127 V AC/110 1	25 V DC
		208 240 V AC/220 2	50 V DC
Primary operating range			
Primary operating range (acc. to IEC 60947-2)		85 110% U _s	
Extended operating range for battery operation		85 126% U _s	
Integrated freewheeling diode		Yes	
Operation			
Version		100% OP	5% OP
Opening power	AC/ DC	40 W/40 VA	≤ 60 V: 200 VA/200 W ≥ 110 V: 250 VA/250 W
Continuous power	AC/ DC	8 W/8 VA	-
Minimum command duration at 100% $U_{\rm s}$		60 ms	60 ms
Maximum command duration at 100% U _s		-	2000 ms
Make time of the circuit breaker at 100% $U_{\rm s}$		80 ms	50 ms
Fuse protection of the control circuit at $U_{ m s}$ for cl	osing coil		
Fuse gG	24 30 V DC, 48 60 V DC	2 A	10 A
	110 125 V DC/110 127 V AC	1 A	4 A
	220 250 V DC/208 240 V AC	1 A	2 A
Automatic circuit breaker with C characteristic	24 30 V DC, 48 60 V DC	2 A	10 A
	110 125 V DC/110 127 V AC	1 A	4 A
	220 250 V DC/208 240 V AC	1 A	2 A
Fuse protection of the control circuit at $U_{ m s}$ for ${ m s}_{ m i}$	oring charging motor + closing coil 1)		
Fuse gG	24 30 V DC, 48 60 V DC	6 A	10 A
	110 125 V DC/110 127 V AC	2 A	4 A
	220 250 V DC/208 240 V AC	2 A	2 A
Automatic circuit breaker with C characteristic	24 30 V DC, 48 60 V DC	6 A	10 A
	110 125 V DC/110 127 V AC	2 A	4 A
	220 250 V DC/208 240 V AC	2 A	2 A

¹⁾ With the same control circuit for the closing coil and spring charging motor

Spring charging motors		3WA11 – 3WA13			
Rated operational voltage					
Rated control supply voltage U_s		24 V DC			
		30 V DC			
		48 V DC			
		60 V DC			
		110 125 V DC/110 127 V AC			
		220 250 V DC/208 240 V AC			
Primary operating range					
Primary operating range		85 110% <i>U</i> _s			
Extended operating range for battery operation		85 126% U _s			
Operation					
Opening power	AC/DC	135 VA/135 W			
Continuous power	AC/DC	135 VA/135 W			
Charging time at 100% $U_{\rm s}$		≤ 10 s			

Spring charging motors	3WA11 – 3WA13	
Fuse protection of the control circuit at U_s spring of		
Fuse gG	24 30 V DC, 48 60 V DC	6 A
	110 125 V DC/110 127 V AC 220 250 V DC/208 240 V AC	2 A
Automatic circuit breaker with C characteristic	24 30 V DC, 48 60 V DC	6 A
	110 125 V DC/110 127 V AC 220 250 V DC/208 240 V AC	2 A

Undervoltage releases UVR and U	3WA11 – 3WA13				
Rated voltage					
Rated control supply voltage $U_{\rm s}$		24 30 V DC (UVR)			
		48 60 V DC (UVR)			
		48 V DC (UVR-t)			
		60 V DC (UVR-t)			
		110 127 V AC/110 125 V DC			
		208 240 V AC/220 250 V DC			
		380 415 V AC			
Operating range					
Response values	Pickup	$\geq 0.85 \times U_s$ (circuit breaker can be closed)			
	Dropout	$0.35 \dots 0.7 \times U_s$ (circuit breaker is opened)			
Operating range		0.85 1.1 × U _s			
Extended operating range for battery operation	At 24 V DC, 30 V DC, 48 V DC, 110 V DC, 220 V DC	0.85 1.26 × U _s			
ntegrated freewheeling diode		Yes			
Operation					
Closing power	AC/DC	50 VA/50 W			
Continuous power	AC/DC	5 VA/5 W			
Break time					
U _s = 0 with UVR instantaneous		80 ms			
		≤ 200 ms			
		0.2 3.2 s			
· •	d X5 14 (EMERGENCY-STOP circuit)	≤ 100 ms			
·	a year in (Emericalities a roll emeally)	_ 1001113			
Fuse gG	24 30 V DC (UVR)	2A			
. 450 g 0	48 60 V DC (UVR)	2A			
	48 V DC (UVR-t)	2A			
	60 V DC (UVR-t)	2A			
	110 127 V AC/110 125 V DC	2A			
	208 240 V AC/220 250 V DC	2A			
	380 415 V AC	2A			
Automatic circuit broaker with C characteristic	24 30 V DC (UVR)	4A			
Automatic circuit breaker with C characteristic		4A 4A			
	48 60 V DC (UVR)				
	48 V DC (UVR-t)	4A			
	60 V DC (UVR-t)	4A			
	110 127 V AC/110 125 V DC	4A			
	208 240 V AC/220 250 V DC	6A			
	380 415 V AC	6A			
Automatic circuit breaker with D characteristic	24 30 V DC (UVR)	2A			
	48 60 V DC (UVR)	2A			
	48 V DC (UVR-t)	2A			
	60 V DC (UVR-t)	2A			
erating range ended operating range for battery operation egrated freewheeling diode eration sing power ntinuous power eak time = 0 with UVR instantaneous = 0 with UVR short-time delayed = 0 with UVR-t delayed th UVR-t by disconnection at terminals X5.13 as se protection of the control circuit se gG	110 127 V AC/110 125 V DC	2A			
	208 240 V AC/220 250 V DC	4A			
	380 415 V AC	4A			

System overview, page 1/30

Accessory options

Further technical specifications

Shunt trip (ST/ST-COM/ST2)	3WA11 – 3WA13	3WA11 – 3WA13				
Rated operational voltage						
Rated control supply voltage U_s		24 30 V DC				
		48 60 V DC				
		110 127 V AC/DC 110 .	125 V DC			
		208 240 V AC/DC 220 .	250 V DC			
Primary operating range						
Primary operating range (acc. to IEC 60947-2)		85 110% U _s				
Extended operating range for battery operation		85 126% U _s				
Integrated freewheeling diode		Yes				
Operation						
Version		100% OP	5% OP			
Opening power	AC/DC	40 VA/40 W	≤ 60 V: 200 VA/200 W ≥ 110 V: 250 VA/250 W			
Continuous power	AC/DC	8 VA/8 W	-			
Minimum command duration at 100% U _s		60 ms	60 ms			
Maximum command duration at 100% U _s		-	2000 ms			
Opening time of the circuit breaker at $U_s = 100\%$		80 ms	50 ms			
Fuse protection of the control circuit						
Fuse gG	24 30 V DC, 48 60 V DC	2 A	10 A			
	110 127 V AC/110 125 V DC	1 A	4 A			
	208 240 V AC/220 250 V DC	1 A	2 A			
Automatic circuit breaker with C characteristic	24 30 V DC, 48 60 V DC	2 A	10 A			
pening time of the circuit breaker at $U_s = 100\%$ use protection of the control circuit use gG	110 127 V AC/110 125 V DC	1 A	4 A			
	208 240 V AC/220 250 V DC	1 A	2 A			

Remote reset magnet for mechan	ical tripped indicator (F7)	3WA11 – 3WA13
Rated operational voltage		
Rated control supply voltage U_s		24 30 V DC
		48 60 V DC
		110 125 V DC/110 127 V AC
		220 250 V DC/208 240 V AC
Primary operating range		
Primary operating range (acc. to IEC 60947-2)		85 110% U _s
Extended operating range for battery operation		70 126% U _s
Integrated freewheeling diode		Yes
Operation		
Power consumption	AC/DC	60 VA/60 W
Minimum command time at $1 \times U_s$		60 ms
Fuse protection of the control circuit		
Fuse gG	24 60 V DC	2 A
	100 V AC/> 100 V DC	1 A
Automatic circuit breaker with C characteristic	24 60 V DC	2 A

1 A

100 V AC/> 100 V DC

Contact position-driven auxiliar	ry switches (S1 to S8)	3WA11 – 3WA13	
Туре		NO or NC	
Contact reliability		From 1 mA at 5 V DC	
Rated insulation voltage $U_{\rm i}$		500 V DC/500 V 50 AC/6	50 Hz
Rated impulse withstand voltage $U_{\rm imp}$		4 kV	
Breaking capacity			
ated operational current I _e	DC12	24 V	10 A
		30 V	4 A
		48 V	2.5 A
		60 V	1 A
		110 V	0.4 A
		220/240 V	0.2 A
	DC13	24 V	3 A
		30 V	2.5 A
		48 V	1 A
		60 V	0.4 A
		110 V	0.2 A
		220/240 V	0.1 A
	AC12	≤ 440 V	10 A
	AC13	< 220 V	8 A
		220 240 V	4 A
		320 440 V	3 A

Ready-to-close signaling switches (S20) (acc. to DIN VDE 0630)

3WA11 - 3WA13

(acci to biit tbl oobo)		3117111					
Туре		NO contact					
Contact reliability		From 1 mA at 5 V DC 1)					
Rated insulation voltage U_i		250 V DC/250 V AC					
Breaking capacity							
Rated operational current I _e	DC12	24 V	5 A				
		30 V	2.5 A				
		48 V	2.5 A				
		60 V	0.4 A				
		110/127 V	0.4 A				
		220/240 V	0.2 A				
	DC13	24 V	2.5 A				
		30 V	1 A				
		48 V	1 A				
		60 V	0.22 A				
		110/127 V	0.22 A				
		220/240 V	0.1 A				
	AC12	≤ 240 V	6 A				
	AC13	110 127 V	5 A				
		220 240 V	4 A				

To ensure contact reliability at 1 mA, the contacts are gold-plated. If 1 mA is exceeded, the gold-plating is eroded. As a consequence, contact reliability at 1 mA can no longer be ensured.

System overview, page 1/30

Accessory options

Further technical specifications

Trip alarm switches (S24, S	525)	3WA11 – 3WA12	
1st trip alarm switch S24		CO contact	
2nd trip alarm switch S25		NO contact	
Contact reliability		From 1 mA at 5 V DC 1)	
Rated insulation voltage $U_{\rm i}$		250 V DC/250 V 50 AC/	60 Hz
Breaking capacity			
Rated operational current $I_{\rm e}$	DC12	24 V	5 A
		30 V	2.5 A
		48 V	2.5 A
		60 V	0.4 A
		110/127 V	0.4 A
		220/240 V	0.2 A
	DC13	24 V	2.5 A
		30 V	1 A
		48 V	1 A
		60 V	0.2 A
		110/127 V	0.2 A
	<u> </u>	220/240 V	0.1 A
	AC12	≤ 240 V	6 A
	AC13	110 127 V	5 A
		220 240 \/	ΛΔ

¹⁾ To ensure contact reliability at 1 mA, the contacts are gold-plated. If 1 mA is exceeded, the gold-plating is eroded. As a consequence, contact reliability at 1 mA can no longer be ensured.

Position signaling switches	on guide frame	3WA11 – 3WA13					
Туре		CO (not COM)					
Contact reliability		From 1 mA at 5 V DC ¹⁾					
Rated insulation voltage <i>U</i> _i		250 V DC/250 V 50 AC/	60 Hz				
Rated impulse withstand voltage $U_{\rm imp}$		4 kV					
Connection type		Spring-loaded terminal	s				
Conductor cross-section that can be conne	cted by customer	1 × 0.5 mm ² (AWG 20)	1 × 2.5 mm² (AWG 14)				
Breaking capacity							
Rated operational current $I_{\rm e}$	DC12	24 V	5 A				
		30 V	2.5 A				
		48 V	2.5 A				
		60 V	0.4 A				
		110/127 V	0.4 A				
		220/240 V	0.2 A				
	DC13	24 V	2.5 A				
		30 V	1 A				
		48 V	1 A				
		60 V	0.22 A				
		125 V	0.22 A				
		250 V	0.1 A				
	R300 DC	24 V	3 A				
		30 V	2.5 A				
		48 V	1 A				
		60 V	0.4 A				
		110 V	0.22 A				
		220/240 V	0.11 A				
	AC12	≤ 440 V	6 A				
	AC13	< 220 V	5 A				
		220 240 V	4 A				
		320 440 V	3 A				
	A300 AC	120 V	6 A				
		240 V	3 A				

The COM (X89) contacts may only be connected to the communications module.

¹⁾ To ensure contact reliability at 1 mA, the contacts are gold-plated. If 1 mA is exceeded, the gold-plating is eroded. As a consequence, contact reliability at 1 mA can no longer be ensured.

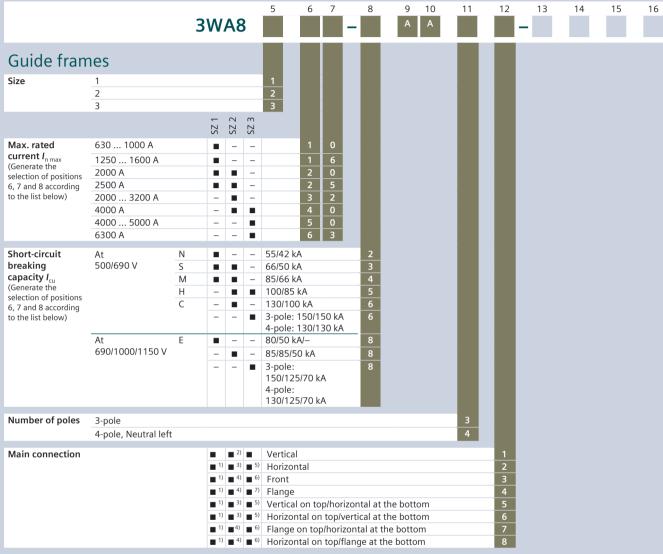
ETU600		3WA11 – 3WA13
Power supply		
Method of power supply		DC power supply unit
DC power supply unit		IEC 61558 SELV/PELV
Rated control supply voltage U_s	DC	24 V
Primary operating range		$U_{\rm s}\pm20\%$
Power consumption		2.9 W
Max. current consumption		0.12 A
Max. starting current		0.35 A
Overvoltage category		CATI
Integrated short-circuit protection		Yes
Protected against polarity reversal		Yes

Summary of power consumption data

Components	Voltage	Power consumption
ETU600	24 V DC	2.9 W
Closing coil CC/CC-COM 100% OP	24 30 V DC 48 60 V DC 110 127 V AC/110 125 V DC 208 240 V AC/220 250 V DC	40 W 40 W 40 VA/W 40 VA/W
Closing coil CC/CC-COM 5% OP	24 30 V DC 48 60 V DC 110 127 V AC/110 125 V DC 208 240 V AC/220 250 V DC	200 W 200 W 250 VA/W 250 VA/W
Shunt trip ST/ST-COM 100% OP	24 30 V DC 48 60 V DC 110 127 V AC/110 125 V DC 208 240 V AC/220 250 V DC	40 W 40 W 40 VA/W 40 VA/W
Shunt trip ST/ST-COM 5% OP	24 30 V DC 48 60 V DC 110 127 V AC/110 125 V DC 208 240 V AC/220 250 V DC	200 W 200 W 250 VA/W 250 VA/W
Spring charging motors	24 30 V DC 48 60 V DC 110 127 V AC/110 125 V DC 208 240 V AC/220 250 V DC	135 W 135 W 135 VA/W 135 VA/W
Remote reset magnets	24 30 V DC 48 60 V DC 110 127 V AC/110 125 V DC 208 240 V AC/220 250 V DC	60 W 60 W 60 VA/W 60 VA/W
Undervoltage releases (UVR/UVR-t)	24 V DC 30 V DC 48 V DC 60 V DC 110 127 V AC/110 125 V DC 208 240 V AC/220 250 V DC 380 415 V AC	50 W 50 W 50 W 50 W 50 VA/W 50 VA/W 50 VA
IOM230	24 V DC	1 W
COM190/COM150	24 V DC	1 W

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



¹⁾ Only ≤ 2000 A is available for size 1

The following combinations of positions 6, 7 and 8 of the article number are technically feasible

	J										,	
Size	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
			Representation 6, 7, 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

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.

³⁾ Only ≤ 3200 A is available for size 2

Only \leq 3200 A is available for size 2, not available for breaking capacity C

⁵⁾ Only ≤ 5000 A is available for size 3

⁶⁾ Only for 4000 A is available for size 3, breaking capacity H available
7) For size 3, only 4000 A applicable at a short-circuit current of up to 100 kA

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
Push-in	SZ 1, SZ 2, SZ 3	X7, X6, X5		Non-a	utomatic	circuit bre	akors	A		
connection 1)	JL 1, JL 2, JL J	λ7, λ0, λ3			ıt ready4					
		X8, X7, X6, X5		circuit	breakers breakers ICOM fea		matic	В		
	SZ 2, SZ 3	X9, X8, X7, X6, X5		Including external trip controller ETC600 for circuit breakers with ETU600 LSIG Hi-Z						
Position signaling	Without position signaling switch								А	
switch	Position signaling switch PSS (3 × c	onnected position, 2 × te	est position, 1 ×	disconne	cted pos	ition)			С	
	Position signaling switch PSS-COM (1 \times connected position, 1 \times test position, 1 \times disconnected position) plus connection to a communications module									

¹⁾ Conversion to screw connection is possible with Z option NO3.

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

		3WA8	5	6	7 8	9 A	10 U	11	12	13	14	15	1
Guide fram											П		
Size (SZ)	2		2										
Max. rated current I _{n max}	2000 A 4000 A			2 4	0								
Short-circuit breaking capacity	D ≤ 600 V DC E ≤ 1000 V DC ≤ 1500 V DC	25 kA at 600 v 20 kA at 1000 20 kA at 1500	V DC)	1 8 8				ı				
Number of poles	3-pole 4-pole							3					
Connection	Withdrawable												
Secondary disconnect terminal	Push-in connection	X7, X6, X5 X8, X7, X6, X	(5			tomatic ci			ith ready4	4COM	A B		
Position signaling switch	Without position signal Position signaling swit Position signaling swit plus connection to a c	tch PSS (3 × connect tch PSS-COM (1 × c	onnect									A C G	

^{1) 1500} V DC applications only for 4-pole circuit breakers and for breaking capacity E

Accessories and spare parts

Accessories for ele	ectronic trip unit						
Electronic trip unit							
	Note: The electronic trip unit is supplied without an of ordered separately. The range of functions of the ETU metering" application package.						
	Basic Protective functions				Article No.		Price €
	ETU300 LSI/LSIG				3WA9111-0EE32	2	
	LSI/LSIG				3WA9111-0EE62	2	
	LSIG Hi-Z				3WA9111-0EE63	3	
Spare part battery for ET	Ü600						
		_	-		Article No. 3WA9111-0EE8	1	Price €
Option plug							
MERICAN	Basic configuration	Rated current I _n	SZ 1	SZ 2 SZ 3	Article No.		Price €
h= 250A	Protective function LSI: LT, ST, INST				3WA9111-0EB		
	Protective function LSIG: LT, ST, INST, GF (ground-fault protection with extended setting range)				3WA9111-0EX		
		250 A		-		02	
		315 A		-		03	
		400 A	-	-		04	
		500 A	-	-		05	
		630 A	-	-		06	
		800 A	-	-		08	
		1000 A	-	-		10	
		1250 A	-			12	
		1600 A	•			16	
		2000 A	-			20	
		2500 A	-	• •		25	
		3200 A	_			32	
		4000 A	_			40	
		5000 A	_			50	
Function packages for El	T11600	6300 A	_	- •		63	
r unction packages for E	Protective and alarm functions				Article No.		Price €
X 0 0	Ground fault alarm (GF alarm)		_		3WA9111-0ES01	1	11100 0
34	Directional short-time-delayed short-circuit protection (d (requires an optional voltage tap module)	ST) and reverse powe	er protec	tion (RP)	3WA9111-0ES05		
	Enhanced Protective functions (EPF)				Article No.		Price €
	Full package with unbalance, voltage, active power, freq detection	uency, THD and phas	se sequer	nce	3WA9111-0ES11	1	
	Phase unbalance current and phase unbalance voltage				3WA9111-0ES12	2	
	Undervoltage and overvoltage				3WA9111-0ES13	3	
	Active power import and active power export				3WA9111-0ES14	4	
	Underfrequency and overfrequency				3WA9111-0ES15		
	Total harmonic distortion for current and voltage				3WA9111-0ES16	5	
	Phase sequence detection				3WA9111-0ES17	7	
	Functional expansions				Article No.		Price €
	Second protection parameter set				3WA9111-0ES21		
	Waveform memory				3WA9111-0ES24	4	
	Extended metering function				Article No.		Price €
	Upgrade to metering function PMF-II Basic Power Monitori (metering values, see catalog page 1/25)				3WA9111-0ES52		
	Upgrade to metering function PMF-III Advanced Power Monit (metering values, see catalog page 1/25)	oring			3WA9111-0ES53	3	
Standard license to activ	ate test function in SENTRON Powerconfig software						
	Version				Article No.	11/64	Price €
	For testing the protective functions of SENTRON circuit b	reakers			7KN2720-0CE00	J-1YC1	

Price €

Article No.

3WA9111-0EC40

Accessories for electronic trip unit

Upgrading to "ready4COM" feature through BSS200 breaker status sensor for ETU600



- Gathers information about the statuses of the circuit breaker via signaling switches and transmits it to the CubicleBUS²
- Controls the communication-capable CC-COM closing coil and the ST-COM shunt trip in a circuit breaker with the ready4COM feature
- The BSS200 breaker status sensor is fitted in every circuit breaker with ETU600 of the ready4COM application package and with the PMF-I to PMF-III metering functions

External current sensors for the N conductor



TO THE TESTIGNETS.						
	Version	Size	Article No.	Price €		
	For mounting on busbar	1	3WA9111-0AA21			
		2	3WA9111-0AA22			
		3	3WA9111-0AA23			
	For busbar connection DIN connection	1	3WA9111-0AA31			
		2	3WA9111-0AA32			
		3	3WA9111-0AA33			

Cover for electronic trip unit





• The scope of supply includes both the top cover with safety lock and the sealable bottom cover of the rotary coding switches.

Accessory for

Article No. Price €

Accessory for	Article No.	Price €
ETU300	3WA9111-0EM21	
ETU600	3WA9111-0EM22	

Adapter for connecting the ETU300 to the TD400



Version Article No. Price
Via the adapter, the ETU300 can be connected to the TD400 to supply it with an external
voltage. There is no parameterization or documentation option via SENTRON Powerconfig.

Automatic reset of the reclosing lockout



VersionArticle No.Price €Spare part for option K01 or for retrofitting3WA9111-0EM31

Remote trip alarm reset coils



For mechanical tripped indicator
 Including automatic rocat of the

Including automatic reset of the reclosing lockout 3WA9111-0EM31

Voltage	Article No.	Price €
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 reclosing lockout



For external control via the external trip controller ETC600, including the necessary parts for the secondary disconnect terminal

External trip controller ETC600





Including adapter for mounting on the secondary disconnect terminal system of the circuit breaker, adapter for mounting on DIN rail

Article No. Price € 3WA9111-0EM62

System overview, page 1/30

Article No.

3WA9111-0EM61

Accessories and spare parts

Locking provisions and interlocks

Interlocking sets for mechanical Open/Close



- 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.	Price €
Without safety lock	3WA9111-0BA21	
Made by CES	3WA9111-0BA22	
Made by IKON	3WA9111-0BA23	

Locking provision against unauthorized closing from the operator panel



- The disconnector unit fulfills the requirements for main circuit breakers acc. to EN 60204-1
- Spare part for options S01 to S09

Туре	Scope of supply	Article No.	Price €
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	

Locking provision against unauthorized closing of the withdrawable circuit 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

Туре	Scope of supply	Article No. Price €
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 provisions for charging handle with padlock



Version	Scope of supply	Article No.	Price €
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



Туре	Scope of supply	Article No.	Price €
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-Kev 1)	Without locks, cylinders or keys	3WA9111-0BA80	

Docks, 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

Interlocking 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

	уре	Article No.	Price €
N	lade by CES	3WA9111-0BA43	

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

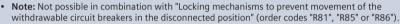
- Consisting of Bowden cable and the breaker mechanism in the control cabinet door
- Spare part for option R81, R85, R86
- Note: Not possible in combination with "Locking mechanism to prevent opening of the control cabinet door" (order code "R30") or "Locking mechanism to prevent movement with the control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



Туре	Article No.	Price €
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





П	Version		Article No.	Price €
	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 mechanisms to prevent movement of the withdrawable circuit breakers in the disconnected position" (order codes "R81", "R85" or "R86").

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

Mechanical interlocks



• 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.	Price €
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



Artic	icle No.	Price €
3WA!	A9111-0BB31	

Bowden cable for mutual



a١	mechanical interlocking		
	Length	Article No.	Price €
	2000 mm	3WA9111-0BB41	
	3000 mm	3WA9111-0BB42	
	4500 mm	3WA9111-0BB43	

System overview, page 1/30

Accessories and spare parts

Indicators and control elements

Version Spare part for signaling switch installed as standard SWA9111-OAHD1	ady-to-close signali	ng switches (S20)			
Ist trip alarm switch (\$24) Version Spare part for signaling switch installed as standard 3WA9111-OAH02 **Can only be used with a circuit breaker with an electronic trip unit without ready4COM **The 1st trip alarm switch (1 changeover contact) is installed in every circuit breaker with a trip unit as standard **Version	12.1	Version		Article No.	Price €
Version Spare part for signaling switch installed as standard Version • Can only be used with a circuit breaker with an electronic trip unit without ready4COM • The 1st trip alarm switch (1 changeover contact) is installed in every circuit breaker with a trip unit as standard Version Spare part for option KO6 1 NO Wechanical operating cycles counter (5-digit) Version Spare part for option CO1 With annual operating mechanism With spring charging meter Version Spare part for option CO1 With spring charging meter Version Spare part for option CO1 With spring charging meter Version Spare part for option CO1 With spring charging meter Version Spare part for option CO1 With spring charging meter Version Version • Article No. 3WA9111-0AH05 With spring charge signaling switch (\$21) **Print of the with feature of the spring charging motor is installed to charge the stored energy mechanism Ween a spring charging motor is retrofitted, the spring charge signaling switch can also be retrofitted Contacts **Print of the spring charge signaling switch can also be retrofitted Contacts **Print of the spring charge signaling switch can also be retrofitted Contacts **Print of the spring charge signaling switch can also be retrofitted Contacts **Print of the spring charge signaling switch can also be retrofitted Contacts **Print of the spring charge signaling switch can also be retrofitted **Print of the spring charge signaling switch can also be retrofitted **Print of the spring charge signaling switch can also be retrofitted **Contacts **Print of the spring charge signaling switch can also be retrofitted **Print of the spring charge signaling switch can also be retrofitted **Print of the spring charge signaling switch can also be retrofited to charge signaling switch can also be retrofitted **Print of the spring charge signaling switch can also be retrofited to charge signaling switch can also be retrofited to charge signaling switch can also be retrofited to charge signaling switch can a		Spare part for signaling switch	installed as standard	3WA9111-0AH01	
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Spare part for option K06	4	Can only be used with a circThe 1st trip alarm switch (1			
Version For circuit breakers/non-automatic circuit breakers Article No.	5	Version	Contacts	Article No.	Price €
Version For circuit breakers/non-automatic circuit breakers Article No.		Spare part for option K06	1 NO	3WA9111-0AH03	
Version For circuit breakers/non-automatic circuit breakers 3WA9111-0AH05	chanical operating				
Spare part for option CO1 With manual operating mechanism With spring charging motor **Standard when a spring charging motor is installed to charge the stored energy mechanism **Power of the spring charging motor is retrofitted, the spring charge signaling switch can also be retrofitted **Contacts** **INO** **Article No.** **Article No.** **PS5321** **Article No.** **PS5400-COM** **Article No.** **PS5400-COM** **Arconnected position, 1 × test position, 1 × disconnected position 2 ocumunications module COM (Signal: "disconnected position" and "absent") **PS5400-COM** **Arconnected position and option for connection to a communications module COM (Signal: "disconnected position" and "absent") **PS5400-COM** **Article No.** **PS5400-COM** **Article No.** **PS5400-COM** **Article No.** **PS5400-COM** **Article No.** **Article No.** **Article No.** **Way9111-0AH13 **Article No.** **Way9111-0AH24 **With CES assembly kit, Spare part for option C12 **With KCN assembly kit **Way9111-0AH23 **Way9111-0AH23 **Way9111-0AH23 **Article No.** **Not available in combination with local electric close **Version** **Not available in combination with local electric close **Version** **Not available in combination with local electric close **Version** **Not available in combination with local electric close **Version** **Number of option C25** **Article No.** **Sway9111-0AH24* **Writh RKON assembly kit.** **Article No.** **Sway9111-0AH24* **Way9111-0AH24* **Way9111-0AH	<u> </u>		For circuit breakers/non-automatic circuit breakers	Article No.	Price €
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1 NO as was part of the connected position and option for connected position, 1 × disconnected positi	1	When a spring charging more			
All conventional contacts are implemented as changeover contacts **Contacts **PSS321 **As connected position, 2 × test position, 1 × disconnected position, 1 × connected position, 1 × disconnected position, 1 × connected position, 1 × disconnected position, 1 × connected position, 1 × connected position, 1 × disconnected position and option for connection to a communications module COM (Signal: 'disconnected position' and 'absent') **PSS400-COM **PSS400-COM** **PSS600 **A × connected position and option for connection to a communications module COM (Signal: 'disconnected position' and 'absent') **PSS600 **A × connected position and option for connection to a communications module COM (Signal: 'disconnected position' and 'absent') **PSS600 **A × connected position and option for connection to a communications module COM (Signal: 'disconnected position' and 'absent') **PSS600 **A × connected position and option for connection to a communications module COM (Signal: 'disconnected position' and 'absent') **PSS600 **A × connected position and option for connection to a communications module COM (Signal: 'disconnected position' and 'absent') **PSS600 **A × connected position and option for connection to a communications module COM (Signal: 'disconnected position' and 'absent') **A × connected position and option for connection to a communications module COM (Signal: 'disconnected position' and 'absent') **A × connected position and option for connection to a communications module COM (Signal: 'disconnected position' and 'absent') **A × connected position and option for connection to a communications module COM (Signal: 'disconnected position' and 'absent') **A × connected position and option for connection to a communications module COM (Signal: 'disconnected position' and 'absent') **A × connected position, 1 × test position, 2 × test position and option for connection to a communication and position and option for connection to a communication and 'absent') **A × connected position and op		Contacts		Article No.	Price €
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Contacts PSS321 3 × connected position, 2 × test position, 1 × disconnected position PSS111-COM 1 × connected position, 1 × test position, 1 × disconnected position and option for connection to a communications module COM (Signal: "disconnected position" and "absent") PSS400-COM 4 × connected position and option for connection to a communications module COM (Signal: "disconnected position" and "absent") PSS600 6 × connected position and option for connection to a communications module COM (Signal: "disconnected position" and "absent") PSS600 6 × connected position PSS600 6 × connected position 3WA9111-0AH13 3WA9111-0AH14 ocal electric close (\$10) for operator panel Note: Possible with motor disconnect switch Note: Possible with motor disconnect switch closing coil Version With sealing cap, spare part for option C11 With LCE assembly kit, Spare part for option C12 With IKON assembly kit 3WA9111-0AH22 Motor disconnect switch (\$12) • 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 Version Article No. Spare part for option C25 May9111-0AH24 May	Manager Signaturing SWI				
PSS321 3 × connected position, 2 × test position, 1 × disconnected position PSS111-COM 1 × connected position, 1 × test position, 1 × disconnected position of connection to a communications module COM (Signal: "disconnected position" and "absent") PSS400-COM 4 × connected position and option for connection to a communications module COM (Signal: "disconnected position" and "absent") PSS600 6 × connected position and option for connection to a communications module COM (Signal: "disconnected position" and "absent") PSS600 6 × connected position and option for connection to a communications module COM (Signal: "disconnected position" and "absent") PSS600 6 × connected position and option for connection to a communications module COM (Signal: "disconnected position" and "absent") PSS600 6 × connected position and option for connection to a communications module COM (Signal: "disconnect opsition" and "absent") PSS600 6 × connected position and option for connection to a communications module COM (Signal: "disconnected position" and "absent") PSS600 6 × connected position and option for connection to a communications module COM (Signal: "disconnected position" and "absent") PSS600 6 × connected position and option for connection to a communication and "absent") PSS600 6 × connected position and option for connection to a communication subapilitoon of a communication in the connect switch (Signal: "disconnect switch (Signal: "disconnected position" and "absent") PSS600 6 × connected position and option for connection to a communication of switch (Signal: "disconnected position and subapility (Signal: "disconnected position and subapility (Signal: "d	####		e implemented as changeover contacts	Article No.	Price €
position and option for connection to a communications module COM (Signal: "disconnected position" and "absent") PSS400-COM 4 × connected position and option for connection to a communications module COM (Signal: "disconnected position" and "absent") PSS600 6 × connected position Scope of supply: Button + wiring Not possible with motor disconnect switch Note: Possible only for circuit breakers with closing coil Version With sealing cap, spare part for option C11 With CES assembly kit, Spare part for option C12 With IKON assembly kit With IKON assembly kit Only in combination with the spring charging motor for charging the stored energy mechanism Not available in combination with local electric close Version Article No. 3WA9111-0AH22 With IKON assembly kit With assembly kit With assembly kit Work available in combination with local electric close Version Article No. Spare part for option C25 Weshorn Way 111-0AH24 Article No. Article No. Way 111-0AH24 Article No. Way 111-0AH24 Weshorn Way 111-0AH24 Wesh				_	
cations module COM (Signal: "disconnected position" and "absent") PSS600 6 × connected position Scope of supply: Button + wiring Not possible with motor disconnect switch Note: Possible only for circuit breakers with closing coil Version With sealing cap, spare part for option C11 With CES assembly kit, Spare part for option C12 With IKON assembly kit With IKON assembly kit Only in combination with the spring charging motor for charging the stored energy mechanism Not available in combination with local electric close Version Spare part for option C25 Mushroom pushbutton instead of local mechanical open		PSS111-COM	position and option for connection to a communications module	3WA9111-0AH12	
Pocal electric close (\$10) for operator panel Scope of supply: Button + wiring Not possible with motor disconnect switch Note: Possible only for circuit breakers with closing coil Version With sealing cap, spare part for option C11 With CES assembly kit, Spare part for option C12 With IKON assembly kit With IKON assem		PSS400-COM		3WA9111-0AH13	
Scope of supply: Button + wiring Not possible with motor disconnect switch Note: Possible only for circuit breakers with closing coil Version With sealing cap, spare part for option C11 With CES assembly kit, Spare part for option C12 With IKON assembly kit Only in combination with the spring charging motor for charging the stored energy mechanism Not available in combination with local electric close Version Spare part for option C25 Mushroom pushbutton instead of local mechanical open		PSS600	6 × connected position	3WA9111-0AH14	
With sealing cap, spare part for option C11 With CES assembly kit, Spare part for option C12 With IKON assembly kit Ootor 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 Version Spare part for option C25 • Mushroom pushbutton instead of local mechanical open	cal electric close (S	Scope of supply: Button + wNot possible with motor disc	connect switch		
With CES assembly kit, Spare part for option C12 With IKON assembly kit With IKON assembly kit With IKON assembly kit With IKON assembly kit Waspill-0AH23 Otor 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 Version Spare part for option C25 Waspill-0AH24 Mushroom pushbutton instead of local mechanical open		Version		Article No.	Price €
With CES assembly kit, Spare part for option C12 With IKON assembly kit With IKON assembly kit With IKON assembly kit With IKON assembly kit Waspill-0AH23 Otor 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 Version Spare part for option C25 Waspill-0AH24 Mushroom pushbutton instead of local mechanical open		With sealing cap, spare part for	r option C11	3WA9111-0AH21	
With IKON assembly kit otor 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 Version Spare part for option C25 Mushroom pushbutton instead of local mechanical open			· ·	3WA9111-0AH22	
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 Version Spare part for option C25 Mushroom pushbutton instead of local mechanical open Mushroom pushbutton instead of local mechanical open				3WA9111-0AH23	
Only in combination with the spring charging motor for charging the stored energy mechanism Not available in combination with local electric close Version Spare part for option C25 Mushroom pushbutton instead of local mechanical open Mushroom pushbutton instead of local mechanical open	tor disconnect swi	tch (S12)			
Spare part for option C25 mergency OPEN button • Mushroom pushbutton instead of local mechanical open Spare part for option C25 3WA9111-0AH24	T	 Only in combination with th 	ne spring charging motor for charging the stored energy mechanism		
Mushroom pushbutton instead of local mechanical open		Version		Article No.	Price €
Mushroom pushbutton instead of local mechanical open		Spare part for option C25		3WA9111-0AH24	
- 7000	ergency OPEN but	ton			
Version Article No.	Zony -	Mushroom pushbutton inste	ead of local mechanical open		
	LET IS	Version		Article No.	Price €
Spare part for option C24 3WA9111-0AH25	On On	Spare part for option C24		3WA9111-0AH25	

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
 - Circuit breakers with ETU600 LSI or LSIG with 4 blocks
 - Circuit breakers with ETU600 LSIG-HiZ with 5 blocks

Secondary disconnect to	erminal			
	Version	Туре	Article No.	Price €
	Base part 1)		3WA9111-0AB01	
	1000 V extension 1)		3WA9111-0AB02	
Million	Manual connector 2	Screw connection	3WA9111-0AB03	
***************************************		Push-in connection	3WA9111-0AB04	
		Ring lug connection	3WA9111-0AB05	
	Coding kits 3	For secondary disconnect terminal blocks X5 to X9 for fixed-mounted circuit breakers	3WA9111-0AB07	
minimini.	Sliding contact module 4	For guide frames	3WA9111-0AB08	
T.	Blanking block		3WA9111-0AB12	

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

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

Auxiliary releases

Closing coil (CC)/shunt trip (ST)						
	Suitable for uninterrupted duty					
Contract to	Version	Voltage	Article No.	Price €		
	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-COM)/sh	unt trip (ST-COM)					
	Suitable for uninterrupted duty					
Contract of the Contract of th	Version	Voltage	Article No.	Price €		
	For circuit breakers and	24 30 V DC	3WA9111-0AD32			
	non-automatic circuit breakers	48 60 V DC	3WA9111-0AD34			
	with the "ready4com" feature 100% OP	110 125 V DC/110 127 V AC	3WA9111-0AD35			
	Switching time ≤ 80 ms Switching time via COM ≤ 120 ms	220 250 V DC/208 240 V AC	3WA9111-0AD36			

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

Accessories and spare parts

Auxiliary releases

Closing coils (CC)				
A 30 115 (0.5)	For momentary duty, with cut-of-	off switch S15 (NC)		
R. L.	Version	Voltage	Article No.	Price €
	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	
Shunt trips (ST)				
	For momentary duty, with cut-of-	off switch S14 (NO)		
The state of the s	Version	Voltage	Article No.	Price €
	5% OP	24 30 V DC	3WA9111-0AD22	
0	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				
0101000000	 For shunt trips Storage time 5 min Also suitable for 3VL, 3VA, 3WL Note: Rated control supply voltatrips 	and 3WN circuit breakers age must match the rated control supply voltage of the shunt		
	Rated control supply voltage/rate	ed operational voltage	Article No.	Price €
	50/60 Hz AC	DC		
	220 240 V	220 250 V	3WA9111-0AD81	
Undervoltage release (U	VR)			
	Version	Voltage	Article No.	Price €
	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) 1),	48 V DC	3WA9111-0AE13	
	adjustable delay 0.2 3.2 s	60 V DC	3WA9111-0AE14	

 $^{^{1)}}$ The maximum allowable cable length to the EMERGENCY-OFF actuator (quick shutdown) is currently < 50 m (maximum allowable cable length between the terminals < 100 m).

380 ... 415 V AC

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

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

Operating mechanism

Spring charging motor to charge the stored energy mechanism						
6- 2	Voltage	Article No.	Price €			
Pala	24 30 V DC	3WA9111-0AF02				
1.5	48 60 V DC	3WA9111-0AF04				
	110 125 V DC/110 127 V AC	3WA9111-0AF05				
200	220 250 V DC/208 240 V AC	3WA9111-0AF06				

Auxiliary contacts

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

3WA9111-0AE15

3WA9111-0AE16

3WA9111-0AE17

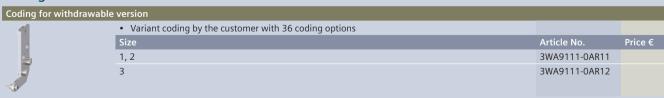
Door sealing frame, protective cover

Door sealing frame			
	Version	Article No.	Price €
	Spare part for option T40	3WA9111-0AP01	
Protective covers IP55			
	 Cannot be used in conjunction with door sealing frames Hood removable and can be opened on both sides 		
1 1		Article No.	Price €
		3WA9111-0AP03	

Arc chute, arc chute cover

Arc chute					
Cacal	Voltage	Size	Breaking capacity	Article No.	Price €
	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 For fixed-mounted breakers	3WA9111-0AS04	
			For withdrawable circuit breakers	3WA9111-0AS05	
		2	E	3WA9111-0AS12	
		3	E	3WA9111-0AS18	
	600 V DC	2	D	3WA9111-0AS13	
	1000 V DC	2	E	3WA9111-0AS14	
Arc chute cover					
	 Parts kit for guide frame Spare part for option R10 Not available for: Breaking capacity C, D and E 4000 A size 2 				
	Number of poles	Size		Article No.	Price €
	3-pole	1		3WA9111-0AS31	
		2		3WA9111-0AS32	
		3		3WA9111-0AS33	
	4-pole	1		3WA9111-0AS41	
		2		3WA9111-0AS42	
		3		3WA9111-0AS43	
		_		2	

Coding for withdrawable version



Accessories and spare parts

Grounding connection

Grounding connection between the guide frame and the circuit breaker



- Up to 30 kA or 60 kA ground-fault current
- 2 modules must be used for up to 60 kA ground-fault current Number of pole For guide frames 1, 2 1) 3WA9111-0BG01 3WA9111-0BG02 For withdrawable circuit breakers 3WA9111-0BG11 3-pole 4-pole 3WA9111-0BG21 3-pole 1) 3WA9111-0BG12 4-pole 1) 3WA9111-0BG22 3 3-pole 2) 3WA9111-0BG13 4-pole 2) 3WA9111-0BG23
- 1) Cannot be used for size 2 with breaking capacity C and size 2, 4000 A.
- Not for breaking capacity E

Support bracket

Support bracket



- For mounting fixed-mounted circuit breakers on vertical plane
- Only for sizes 1 and 2 (1 set = 2 units)

Article No. Price € 3WA9111-0BB50

Modules of the CubicleBUS²

COM190 PROFINET IO/Modbus TCP communications module 1)



Version Article No. Price €

Circuit breaker internal or on DIN rail, including adapter for mounting on the secondary disconnect terminal system of the circuit breaker, adapter for mounting on DIN rail, connecting cables and CubicleBUS² terminating resistor

COM150 communications module Modbus RTU



Version Article No. Price €
Including adapter for mounting on the secondary disconnect terminal system of the circuit breaker, adapter for mounting on DIN rail, connecting cables and terminating resistor for CubicleBUS²

OM230 digital input/output module (2 inputs and 3 outputs)



 Version
 Article No.
 Price €

 Including adapter for mounting on the secondary disconnect terminal system of the circuit breaker, adapter for mounting on DIN rail, connecting cables and terminating resistor for CubicleBUS²
 3WA9111-0EC11

Type of output contact: NO

Maximum uninterrupted current of an output at 110 ... 230 V AC: 0.2 A IOM350 digital input/output module (3 inputs and 5 outputs)



/ersion Article No. Price €
for mounting on DIN rail, including connecting cables and terminating resistor for **Cubicle**BUS² 3WA9111-0EC12

For mounting on DIN rail, including connecting cables and terminating resistor for **CubicleBUS²**• Type of output contact: CO

Maximum uninterrupted current of an output at 110 ... 230 V AC: 10 A

Terminating resistor for CubicleBUS



Version Article No. Price
For **Cubicle**BUS² on the last module 3WA9111-0EC50

Adapters



 Version
 Article No.
 Price €

 For mounting the modules of the CubicleBUS² on the secondary disconnect terminal system of the circuit breaker
 3WA9111-0EC60

For mounting the modules of the CubicleBUS² on DIN rail

ZSI200 Zone-selective interlocking module



 Version
 Article No.
 Price €

 Including adapter for mounting on the secondary disconnect terminal system of the circuit breaker, adapter for mounting on DIN rail, connecting cables and terminating resistor for CubicleBUS²
 3WA9111-0EC10

3WA9111-0EC61

¹⁾ For connecting the Ethernet cable, connectors angled 90° to the right are recommended, e.g. PROFINET connector 6GK1901-1BB20-2AA0.

Internal voltage tap

Set of components for o	conversion of an existing internal vol	tage tap on the main cond	ucting paths		
	Conversion	Circuit breaker	Size	Article No.	Price €
	From bottom to top	3-pole	1	3WA9111-0EK11	
			2	3WA9111-0EK12	
==			3	3WA9111-0EK13	
90		4-pole	1	3WA9111-0EK21	
			2	3WA9111-0EK22	
			3	3WA9111-0EK23	
	From top to bottom	3-pole	1	3WA9111-0EK31	
		- P-1-0	2	3WA9111-0EK32	
			3	3WA9111-0EK33	
		4-pole	1	3WA9111-0EK41	
		, polo	2	3WA9111-0EK42	
			3	3WA9111-0EK43	
Retrofit of the internal	voltage tap on the lower main condu	rting naths	3	3WAJTTT-OLK+3	
Retroit of the internal	For breaking capacity	Set for circuit breaker	Size	Article No.	Price €
	N, S, M, H, C with VTM680 voltage tap module, with power supply of ETU600	3-pole	1	3WA9111-0EK51	
9 9 9			2	3WA9111-0EK52	
			3	3WA9111-0EK53	
مزم مزم مزم		4-pole	1	3WA9111-0EK61	
			2	3WA9111-0EK62	
			3	3WA9111-0EK63	
	E with VTM640 voltage tap module	3-pole	1	3WA9111-0EK55	
			2	3WA9111-0EK56	
			3	3WA9111-0EK57	
		4-pole	1	3WA9111-0EK65	
			2	3WA9111-0EK66	
Datus California anno anti-			3	3WA9111-0EK67	
Retroilt kit to connect a	n external voltage transformer Size			Article No.	Price €
Management					Price €
	2, 3 including VTM640 voltage tap modu	lle and the necessary conne	ction components	3WA9111-0EK81	
Voltage tap module					
SIENSENS	Version		For breaking capacity	Article No.	Price €
	VTM680, with power supply of ETU6	500 ¹⁾	N, S, M, H, C	3WA9111-0EM12	
1 20	VTM640		E	3WA9111-0EM11	

Main conductor connections, fixed-mounted versions

Front-accessible	main connections according	to DIN 43673, double hole for main connection at top		
C	Size	Breaking capacity Rated current $I_{ m n}$	Article No.	Price €
C	1	N, S ≤ 1000 A AC	3WA9111-0AL11	
0 0		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	
0		S, M, H, E 2500 A AC	3WA9111-0AL22	
		S, M, H, E 3200 A AC; D, E 4000 A DC	3WA9111-0AL23	
	3	4000 A AC (up to a max. short-circuit current of 100 kA)	3WA9111-0AL31	
Front-accessible main connections according to DIN 43673,		to DIN 43673, double hole for main connection at bottom		
	Size	Breaking capacity Rated current I _n	Article No.	Price €
	1	N, S ≤ 1000 A AC	3WA9111-0AL13	
of .		N, S 1250 2000 A AC; M, E ≤ 2000 A AC	3WA9111-0AL14	
51.5	2	S, M, H, E 2000 A AC; D, E ≤ 2000 A DC	3WA9111-0AL24	
		S, M, H, E 2500 A AC	3WA9111-0AL25	
		S, M, H, E 3200 A AC; D, E 4000 A DC	3WA9111-0AL26	
	3	4000 A AC (up to a max. short-circuit current of 100 kA)	3WA9111-0AL32	

¹⁾ When replacing the VTM680 voltage tap module in an 3WA air circuit breaker with an ID number lower than ID No. OE/230101500000, the internal cable harness of the voltage tap must also be replaced. In this case, the accessory "Retrofit of the internal voltage tap on the lower main conducting paths" is required.

Accessories and spare parts

Main conductor connections, fixed-mounted versions

Rear vertical main connections					
	Size	Breaking capacity Rated current $I_{\rm n}$	Article No. Pri	rice €	
	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 \mid \leq 3200 A AC ²⁾	3WA9111-0AM21		
	3	H, C, E ≤ 6300 A AC	3WA9111-0AM33		

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 or with breaking capacity M or E two 3WA9111-0AM11 vertical connections are 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,

Main conductor connections for withdrawable units

Front-accessible main	connections according to DIN 4	3673, double hole at top or at bottom 1)		
	Size	Breaking capacity Rated current I _n	Article No. Pi	rice €
	1	N, S ≤ 1000 A AC	3WA9111-0AN11	
,		N, S 1250 2000 A AC; M, E ≤ 2000 A AC	3WA9111-0AN12	
0	2	N, S 1250 2000 A AC; M, E ≤ 2000 A AC	3WA9111-0AN21	
		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-acc	essible main connections accor	ding to DIN 43673		
	Number of poles	Size	Article No. Pi	rice €
	3-pole, set for 3 bars,	1	3WA9111-0AN81	
	top or bottom	2	3WA9111-0AN82	
		3	3WA9111-0AN83	
	4-pole, set for 4 bars,	1	3WA9111-0AN84	
	top or bottom	2	3WA9111-0AN85	
		3	3WA9111-0AN86	
Rear vertical main cor	nnections			
-8	Size	Breaking capacity Rated current I _n	Article No. Pi	rice €
	1	N, S ≤ 1000 A AC	3WA9111-0AV11	
2/1		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	
8)		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	
Rear horizontal main	connections			
-3	Size	Breaking capacity Rated current In	Article No. Pi	rice €
	1	N, S ≤ 1000 A AC	3WA9111-0AX11	
		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	
-4	_	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	
Connecting flange	3	11, 6, 21 = 3000 ////(6	311/13/11/0/0/31	
	Size	Breaking capacity Rated current I_n	Article No. Pi	rice €
	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	
	<u> </u>	11,1000/1/10	344/15111 0/14431	

 $^{^{9}}$ When using front-accessible main connections (withdrawable circuit breakers) supports are required 2 Not for circuit breakers with very high breaking capacity C

for 3200 A and always for breaking capacity C, two 3WA9111-0AM21 vertical connections are required for each connection

Conversion kit

$Conversion\ kit\ for\ converting\ fixed-mounted\ circuit\ breakers\ into\ with drawable\ circuit\ breakers$



- 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. Price €
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



- Notes:
- 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.	Price €
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	
	2	S, M, H, E	2000 A	3WA9111-0AQ08	
			2500 A	3WA9111-0AQ11	
			3200 A	3WA9111-0AQ13	
_			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	
	2	S	2000 A	3WA9111-0AQ58	
			2500 A	3WA9111-0AQ61	
			3200 A	3WA9111-0AQ63	
			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 ordered only once for each circuit breaker

Number of poles	Size	Breaking capacity	Rated current I _n	Article No.	Price €
3	2	D, E	1000/2000 A	3WA9111-0AQ17	
			4000 A	3WA9111-0AQ18	
4 2	2	D, E	1000/2000 A	3WA9111-0AQ67	
			4000 A	3WA9111-0AQ68	

Accessories and spare parts

Interfaces

Interface to the IEC 61850

• The SICAM A8000 smart data concentrator connects the circuit breakers from the SENTRON portfolio via the Modbus TCP/IP protocol and transmits data via communication protocols (e.g.: IEC 61850,





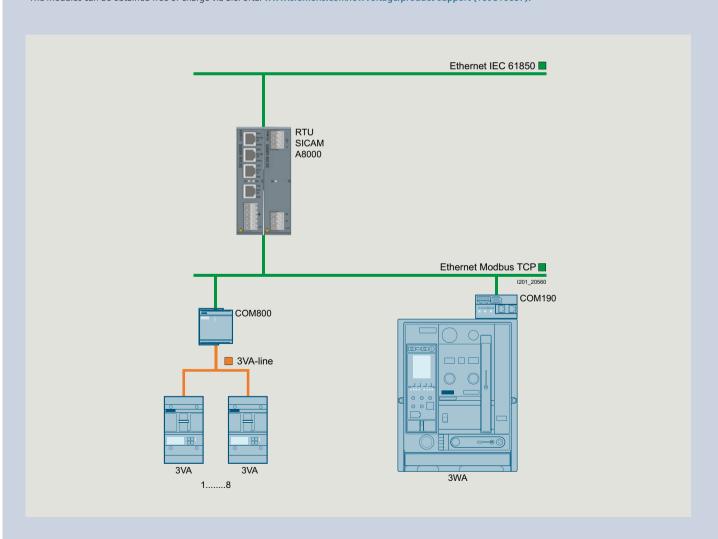
IEC 60870-5-104, IEC 60870-5-101, Modbus and DNP) to higher-level systems.				
Туре	Operational voltage	Article No.	Price €	
SICAM CP-8021 1)	-	6MF2802-1AA00		
SICAM CP-8031 2)	-	6MF2803-1AA00		
SICAM CP-8050 ³⁾	-	6MF2805-0AA00		
SICAM PS-8620	24 60 V DC (12 W)	6MF2862-0AA00		
SICAM PS-8622	110 220 V DC (12 W)	6MF2862-2AA00		

- $^{1)}$ Dimensioned for device quantities of max. 1 × 3WA and 1 × 3VA $^{2)}$ Dimensioned for device quantities of max. 1 × 3WA and 8 × 3VA
- $^{3)}$ Dimensioned for device quantities of max. $3 \times 3WA$ and $8 \times 3VA$ or $2 \times 3WA$ and $8 \times 3VA$ and $1 \times PAC4200$

You will find further information at:

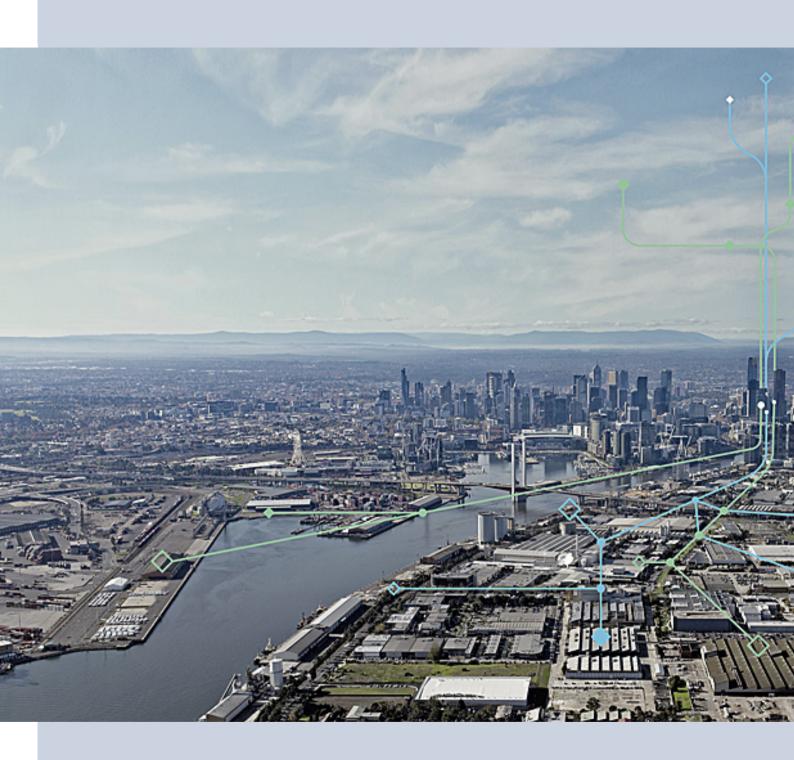
www.siemens.com/sicam-a8000

For the SICAM CP-8021 and SICAM CP-8050, predefined modules were created to reduce commissioning work to a minimum. The modules can be obtained free of charge via SiePortal www.siemens.com/lowvoltage/product-support (109816057).



1

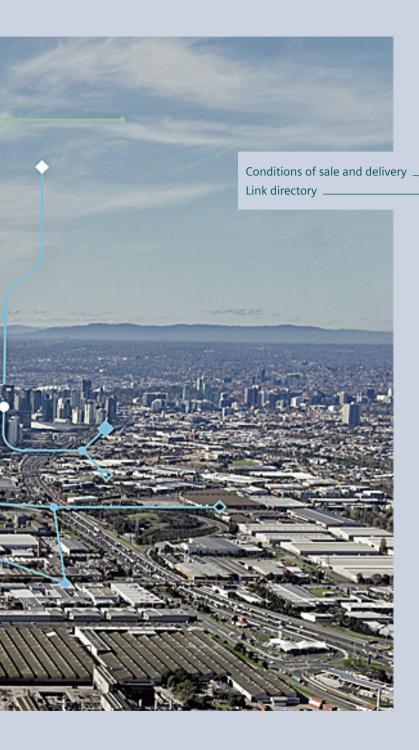
System overview, page 1/30



A/2

A/4

Appendix



Conditions of sale and delivery

1. General Provisions

By using this catalog you can purchase hard- and software products as well as services (together hereinafter referred to as "products") described therein from Siemens Aktiengesellschaft subject to the following Terms and Conditions of Sale and Delivery (hereinafter referred to as "T&C"). Note, for products purchased from any Siemens entity having a registered office outside of Germany, the respective terms and conditions of sale and delivery of the respective Siemens entity apply exclusively. The following T&C apply exclusively for orders placed with Siemens Aktiengesellschaft, Germany.

1.1 For customers with a seat or registered office in European Union

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

- for products, which include specific terms and conditions in the text of the product description, these specific terms and conditions shall apply and subordinate thereto,
- for stand-alone software products and software products forming a part of a product or project, the "General Conditions for Software Products for Infrastructure & Industry Business (German law)" 1) and/or
- for consulting services the "Allgemeine Geschäftsbedingungen für Beratungsleistungen für Infrastructure & Industry Geschäft (Deutsches Recht)" (available only in German) and/or
- for other services, the "Supplementary Terms and Conditions for Services for Infrastructure & Industry Business (German Law) ("BL")" 1) and/or
- for other products the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry" 1).

In case such products should contain Open Source Software, the conditions of which shall prevail over the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry" 1), the Product will be given a note as to which special conditions apply to this open source software. This shall apply mutatis mutandis for notices referring to other third-party software components.

1.2 For customers with a seat or registered office outside European Union

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

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for consulting services the "Standard Terms and Conditions for Consulting Services for Infrastructure & Industry Business (Swiss Law)" 1) and/or
- for other services the "International Terms & Conditions for Services" 1) supplemented by "Software Licensing Conditions" 1) and/or

 for other products the "International Terms & Conditions for Products" 1) supplemented by "Software Licensing Conditions" 1)

1.3 For customers with master or framework agreement

To the extent products offered are covered by an existing master or framework agreement, the terms and conditions of that agreement shall apply instead of T&C.

2. Prices

The prices are in € (Euro) ex point of delivery, exclusive of packaging.

The sales tax (value added tax) is not included in the prices. It shall be charged separately at the respective rate according to the applicable statutory legal regulations.

Prices are subject to change without prior notice. We will charge the prices valid at the time of delivery.

To compensate for variations in the price of raw materials (e.g. silver, copper, aluminum, lead, gold, dysprosium and neodym), surcharges are calculated on a daily basis using the so-called metal factor for products containing these raw materials. A surcharge for the respective raw material is calculated as a supplement to the price of a product if the basic official price of the raw material in question is exceeded.

The metal factor of a product indicates the basic official price (for those raw materials concerned) as of which the surcharges on the price of the product are applied, and with what method of calculation. The metal factor, provided it is relevant, can be found in the respective product description.

An exact explanation of the metal factor can be downloaded at:

https://mall.industry.siemens.com/legal/ww/en/terms_of_trade_en.pdf

To calculate the surcharge (except in the cases of copper, dysprosium and neodym), the official price from the day prior to that on which the order was received or the release order was effected is used.

To calculate the surcharge applicable to copper, the official price from two days prior to that on which the order was received or the release order was effected is used.

To calculate the surcharge applicable to dysprosium and neodym ("rare earths"), the corresponding three-month basic average price in the quarter prior to that in which the order was received or the release order was effected is used with a onemonth buffer (details on the calculation can be found in the explanation of the metal factor).

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

3. Additional Terms and Conditions

The dimensions are in mm. In Germany, according to the German law on units in measuring technology, data in inches apply only to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the individual pages of this catalog – especially with regard to data, dimensions and weights given – these are subject to change without prior notice.

4. Export Control and Sanctions Compliance

4.1 General

Customer shall comply with all applicable sanctions, embargoes and (re-)export control laws and regulations, and, in any event, with those of the European Union, the United States of America and any locally applicable jurisdiction (collectively "Export Regulations").

4.2 Checks for Products

Prior to any transaction by customer concerning products (including hardware, documentation and technology) delivered by Siemens, or products (including maintenance and technical support) performed by Siemens with a third party, customer shall check and certify by appropriate measures that

- (i) the customer's use, transfer, or distribution of such products, the brokering of contracts or the provision of other economic resources in connection with products will not be in violation of any Export Regulations, also taking into account any prohibitions to circumvent these (e.g., by undue diversion)
- (ii) the products are not intended or provided for prohibited or unauthorized non-civilian purposes (e.g. armaments, nuclear technology, weapons, or any other usage in the field of defense and military);
- (iii) customer has screened all direct and indirect parties involved in the receipt, use, transfer, or distribution of the products against all applicable restricted party lists of the Export Regulations concerning trading with entities, persons and organizations listed therein and
- (iv) products within the scope of items-related restrictions, as specified in the respective annexes to the Export Regulations, will not, unless permitted by the Export Regulations, be
- (a) exported, directly or indirectly (e.g., via Eurasian Economic Union (EAEU) countries), to Russia or Belarus, or
- (b) resold to any third party business partner that does not take a prior commitment not to export such products to Russia or Belarus.

4.3 Non-Acceptable Use of Software and Cloud Services

Customer shall not, unless permitted by the Export Regulations or respective governmental licenses or approvals,

 (i) download, install, access or use the products from or in any location prohibited by or subject to comprehensive sanctions or subject or to license requirements according to the Export Regulations;

- (ii) grant access to, transfer, (re-)export (including any "deemed (re-)exports"), or otherwise make available the products to any entity, person, or organization identified on a restricted party list of the Export Regulations;
- (iii) use the products for any purpose prohibited by the Export Regulations (e.g. use in connection with armaments, nuclear technology or weapons);
- (iv) upload to a products platform any customer content unless it is non-controlled (e.g. in the EU: AL = N; in the U.S.: ECCN = N or EAR99);
- (v) facilitate any of the afore mentioned activities by any user. Customer shall provide all users with all information necessary to ensure compliance with the Export Regulations.

4.4 Semiconductor Development

Customer will not, without advance written authorization from Siemens, use offerings for the development or production of integrated circuits at any semiconductor fabrication facility located in China meeting the criteria specified in the U.S. Export Administration Regulations, 15 C.F.R. 744.23.

4.5 Information

Upon request by Siemens, customer shall promptly provide Siemens with all information pertaining to users, the intended use and the location of use or the final destination (in the case of hardware, documentation and technology) of the products. Customer will notify Siemens prior to customer disclosing any information to Siemens that is defense-related or requires controlled or special data handling pursuant to applicable government regulations, and will use the disclosure tools and methods specified by Siemens.

4.6 Reservation

Siemens shall not be obligated to fulfill this agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions. Customer acknowledges that Siemens may be obliged under the Export Regulations to limit or suspend access by customer and/or users to products.

5. Miscellaneous

Errors excepted and subject to change without prior notice.

Link directory

Catalog LV 13

General information

Installation technology Tender specifications Conversion tool Image database CAx download manager Newsletter system Www.siemens.com/lowvoltage/picturedb CAx download manager Newsletter system Www.siemens.com/lowvoltage/newsletter Siemens YouTube channel Catalog LV 10 Www.siemens.com/low10 Catalog LV 13 Www.siemens.com/lv13 Catalog LV 18 Brochures/catalogs Operating instructions/manuals SiePortal (knowledge base) Www.siemens.com/lowvoltage/product-support SiePortal (knowledge base) Www.siemens.com/lowvoltage/product-catalog My Documentation Manager (MDM) Www.siemens.com/lowvoltage/product-catalog My Documentation SiePortal Training Www.siemens.com/lowvoltage/configurators Direct forwarding to SiePortal Training Www.siemens.com/lowvoltage/confounct Www.siemens.com/lowvoltage/contoact Www.siemens.com/lowvoltage/contoact Www.siemens.com/lowvoltage/contoact Www.siemens.com/lowvoltage/contoact Www.siemens.com/lowvoltage/contoact Www.siemens.com/lowvoltage/contoact Www.siemens.com/lowvoltage/systems/contact Www.siemens.com/lowvoltage/systems/contact Www.siemens.com/lowvoltage/systems/contact Www.siemens.com/lowvoltage/systems/contact Www.siemens.com/lowvoltage/systems/contact Www.siemens.com/lowvoltage/systems/contact Www.siemens.com/lowvoltage/systems/contact Www.siemens.com/lowvoltage/software/contact Www.siemens.com/lowvoltage/systems/contact Www.siemens.com/lowvoltage	Information on low-voltage power distribution and electrical	www.siemens.com/lowvoltage
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