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3WL10 Air Circuit Breakers/ Non-Automatic Air Circuit Breakers

Edition
11/2017

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Related catalogs

Low-Voltage Power Distribution and Electrical Installation Technology LV 10
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 Protection, Switching, Measuring and Monitoring Devices, Switchboards and Distribution Systems



PDF/print (E86060-K8280-A101-A6-7600)

3VA Molded Case Circuit Breakers with UL and IEC Certification
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PDF/print (E86060-K8290-A101-A2-7600)

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Interactive Catalog Download



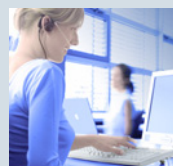
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3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

New products as supplements to main catalog LV 10

SENTRON



3WL10 · 11/2017

Refer to the Industry Mall for current updates of this catalog:

www.siemens.com/industrymall

The products in this catalog can also be found in the Interactive Catalog CA 01.

Article No.: E86060-D4001-A510-D8-7600

Please contact your local Siemens branch.

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

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As a source of energy for industry, buildings and infrastructures, the reliability of the power supply is becoming ever more important. Only a flexible power supply tailored to every individual scenario can meet all individual challenges, while at the same time increasing availability and profitability.

Totally Integrated Power (TIP) from Siemens is a holistic, customizable power supply solution comprising software and hardware products, systems and solutions across all voltage levels. The systems and products of the TIP portfolio can be integrated seamlessly into industrial and building automation systems. TIP enables companies to focus on their core business and simultaneously ensure a reliable, secure and efficient supply of power. Because "power matters".

Electrical power distribution – integrated, safe and efficient

The increasing level of automation in buildings and industry introduces novel requirements for electrical power distribution and makes the underlying technologies ever more complex. Our components and systems are perfect for integration into networked environments, and they significantly contribute toward increasing the efficiency of your business processes. Communication-capable, flexible and fail-safe devices combine with digital engineering to provide you with optimized solutions – for any application.

Comprehensive portfolio

Our products lay the foundations for safe, reliable and efficient electrical infrastructure at medium and low-voltage levels in buildings, infrastructure and industrial applications. Our portfolio includes, among other devices, power distribution boards and distribution boards, communication-capable protection, switching, measuring and monitoring devices, as well as switches and socket outlets. Our tested and certified components, systems and software packages allow for ever-suitable solutions in both centralized and distributed power systems the world over. They reliably protect against accidents, faults and fires caused by electrical installations and allow consumers to utilize electrical power in a sustainable, responsible manner.

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We support you throughout the entire value chain – from the planning stage, during installation and right through to operation, as well as when it comes to measures for modernizing and expanding your electrical power distribution systems. You benefit from a broad portfolio of personalized and online-based maintenance and support services. Professional software and data ensure simple planning in compliance with standards as well as error-free configuration and documentation. Clear ordering channels, transparent product availability data and high delivery reliability coupled with swift global spare part provision, comprehensive online services, expert consulting and fast, efficient and reliable processes ensure that you are optimally covered throughout the entire product life cycle.

Planning Efficiency

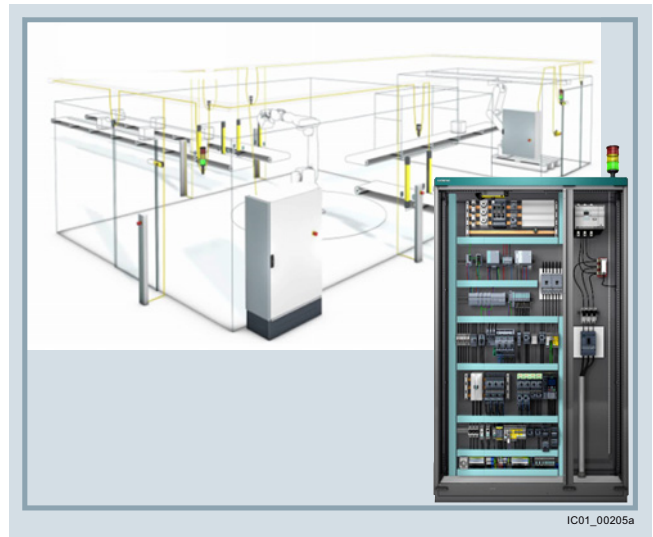
Overview

With Planning Efficiency, Siemens supplies answers to typical questions that often present themselves in electrical planning:

- What is the appropriate product for my application?
- Where can I find product data?
- How can I make processes more efficient and save more time?

The entire electronic support offered by Siemens is merged under Planning Efficiency. At each phase of the project, online functions make the everyday work of the planners easier and more efficient. Planning Efficiency focuses on optimizing the control cabinet configuration among other things.

Especially in this early phase, up to 80% of time and costs can be saved.



IC01_00205a

In order to supply the planners with all they need and to simplify the modern electrical planning of every aspect of the control cabinet configuration, the electrical support of Planning Efficiency focuses on four benefits:

- Finding the right product faster using intuitive product selection
- Time savings of up to 80% with universal product data for your CAE and CAD systems
- User-friendly compilation of project-specific documentation
- Comprehensive support – at any time, wherever your location



Process phases

At each phase of the process, Siemens provides comprehensive online functions free of charge.

This ensures that all the necessary information and product data are available around the clock at any location worldwide.



Configurators for products and systems

With just a few mouse clicks, you will find yourself guided by the configurator to a suitable product or system. Simply enter the relevant parameters and select your individual solution.

CAX Download Manager

The CAX Download Manager can supply you with all the necessary CAX file types for the products of your choice for use in all common CAE and CAD systems. The data contained in the files is continuously updated. The whole process involves only four selection steps and is free of charge. All the files you select will then be compiled into a zip file and made available for you to download for further use. This results in a time saving of up to 80% because there is no need for manual data collection thanks to the universal manufacturer data for all commonly used CAE and CAD systems.

My Documentation Manager

To provide support when creating the plant documentation, we have developed a manual configurator. My Documentation Manager enables you to assemble the standard-compliant plant documentation individually with just a few clicks of the mouse. Simply select the required sections from the existing manuals of the installed Siemens products.

EPLAN Electric P8 Macro – a big plus for EPLAN users

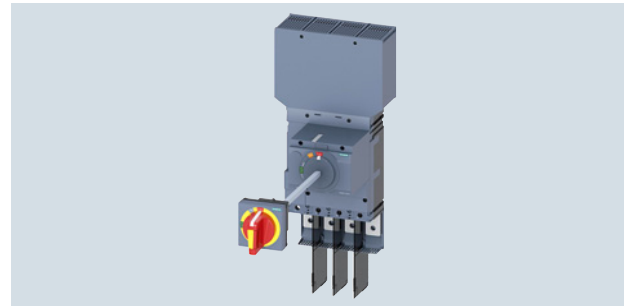
Using the EPLAN Electric P8 Macro in .edz exchange format (EPLAN Data Archived Zipped) the overall time required for data integration can be further reduced. With just a few clicks, the data types for any number of article numbers can be imported and combined. In this way, it is possible for the installed Siemens products to be displayed across different pages of the circuit diagram quickly and easily.

At a glance

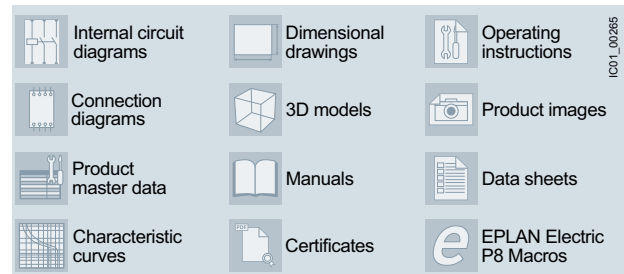
Without Planning Efficiency a lot of time would often be lost due to manual data transmission. Now you are able to concentrate on the essentials. All necessary information and product data is provided by Siemens for easy retrieval.

This makes the control cabinet configuration process more efficient and simplifies your everyday work.

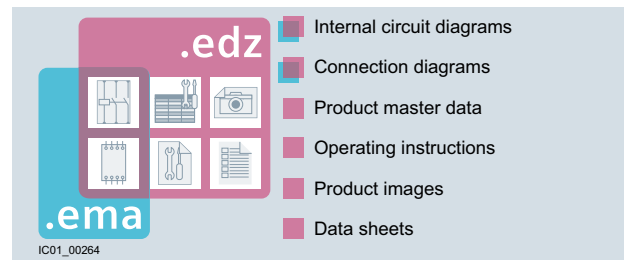
For more information, see www.siemens.com/planning-efficiency.



The configurator supplies the appropriate 3D models and dimension drawings for the control cabinet construction diagram.



The CAX Download Manager makes 11 universal data types available, as well as the EPLAN Electric P8 macro.



The EPLAN Electric P8 macro in .edz exchange format offers even more compared to the .ema exchange format.



Find out more about Planning Efficiency in our informative videos

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The Technical Support for low-voltage power distribution and electrical installation technology assists you with all your technical queries about our products and systems – both before and after delivery.

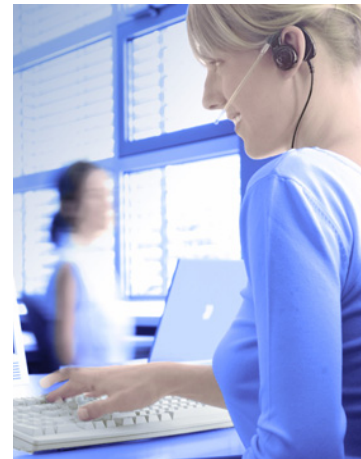
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- Commissioning
- Issues during operation
- Possible special versions
- Special requirements
- Product features
- Device communication



1201_19185

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www.siemens.com/online-support

In the "Entry type" selection box in Product Support, you will find manuals, operating instructions, catalogs, certificates, FAQs, etc.

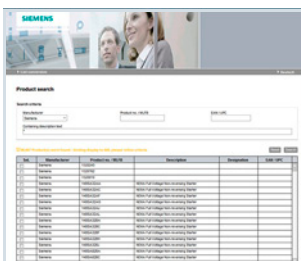
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The benefits for you

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Requirement for taking part in the courses:
Basic principles of electrical engineering and power distribution

I201_19565



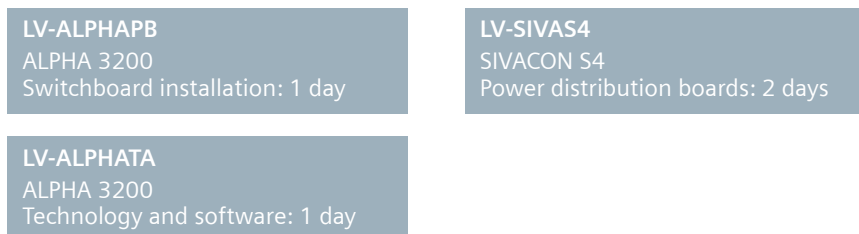
Circuit breaker courses



Power monitoring courses



Switchboard courses



The benefits for you

- Flexible plant adaptation to market requirements
- Ensuring quality standards in production
- Reliable engineering and commissioning
- Shorter commissioning, maintenance and service times
- Exclude expensive faulty planning right from the outset
- Reduce downtimes and rectify faults more quickly

Notes

Air Circuit Breakers



3WL10 air circuit breakers/ non-automatic air circuit breakers

1/2	Introduction
1/5	General data
1/10	Function overview of the electronic trip system

Size 0 for AC up to 1250 A

1/16	3-pole, fixed breaker versions
1/19	3-pole, withdrawable breaker versions
1/22	4-pole, fixed breaker versions
1/25	4-pole, withdrawable breaker versions
1/28	Fixed non-automatic air circuit breakers
1/32	Withdrawable non-automatic air circuit breakers
1/36	Options
1/40	Accessories and spare parts

For further technical product information:

[Configuration Manual](#)

[Air Circuit Breakers](#)

Article No.: 3ZW1012-3WL11-0AC1

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→ Entry type:
 Application example
 Certificate
 Characteristic
 Download
 FAQ
 Manual
 Product note
 Software archive
 Technical data

Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

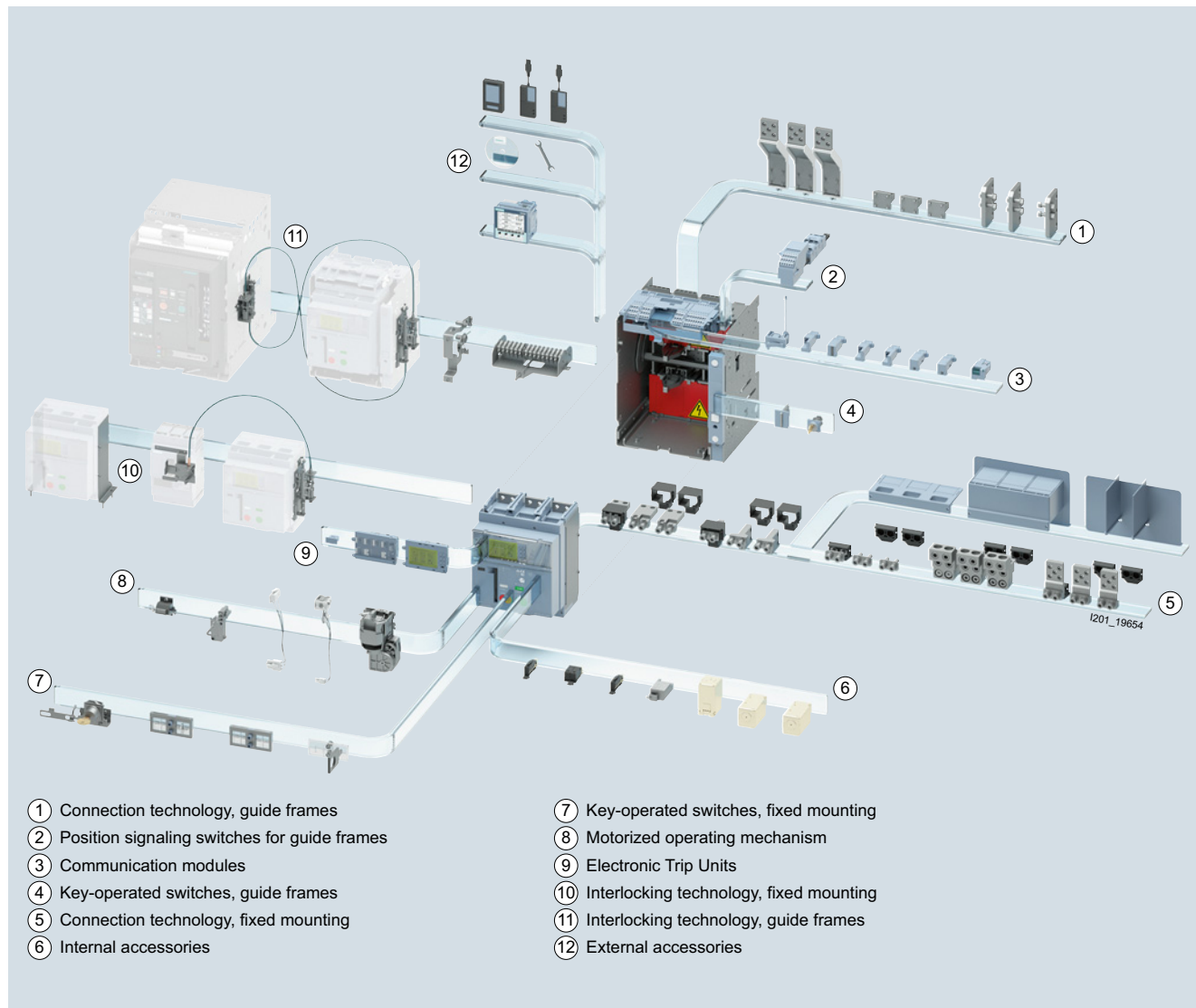
Introduction

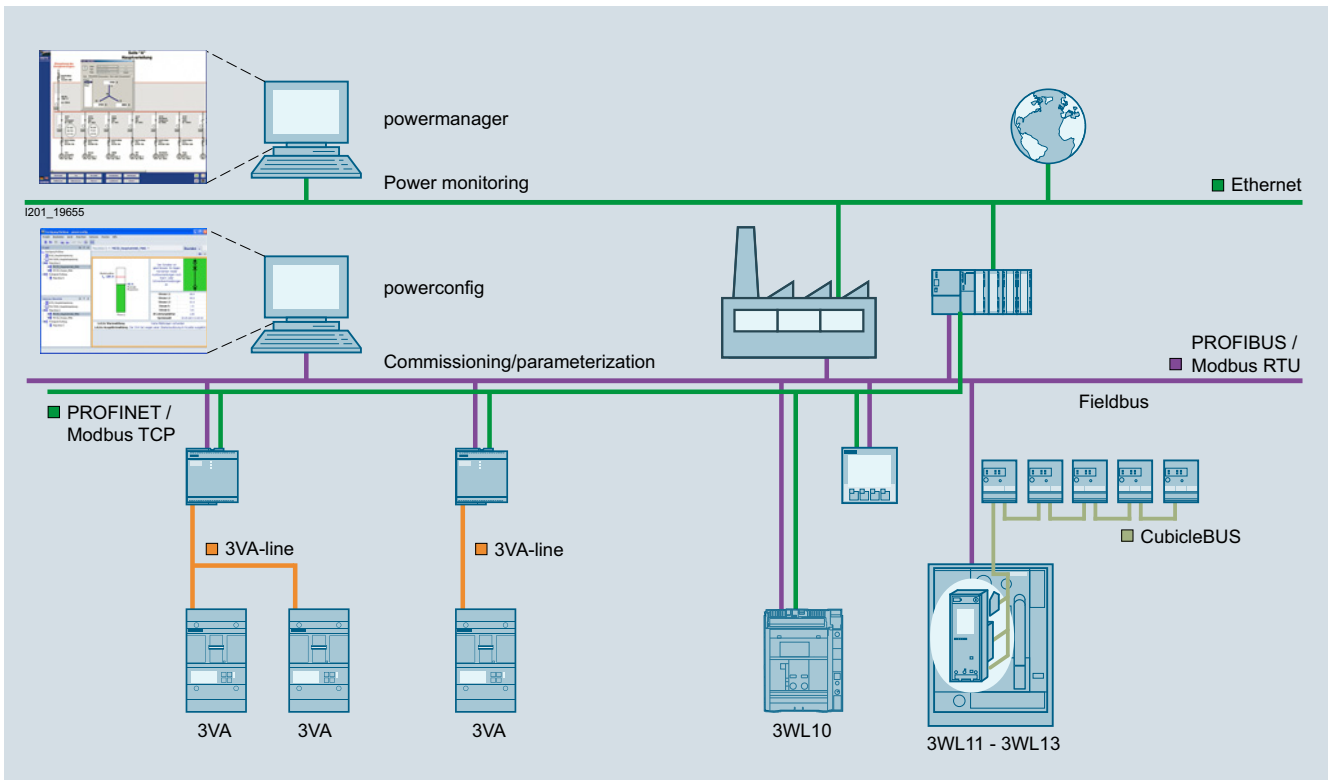
1

Overview

The 3WL10 air circuit breakers are an addition to the existing 3WL1 IEC portfolio with the very compact size 0 up to 1250 A. Like the larger sizes 1 - 3, the 3WL10 breakers are modular in

design allowing most accessory components to be retrofitted or replaced easily by the end user.





Features

- Integrated communication concept together with the 3WL10, the 3VA molded case circuit breakers and the 7KM PAC measuring devices. The communication function is available from 16 A to 1600 A (ACB from 630 A – 1250 A) together with 3VA molded case circuit breakers.
- The 3WL10 air circuit breaker can be equipped with an optional communication function. The Electronic Trip Units ETU650 or ETU660 support the communication function.
- The communication modules support PROFIBUS-DP, PROFINET, Modbus TCP and Modbus RTU.
- The high level of modularity of the circuit breakers and accessories allows easy retrofitting of all communication components. Two communication modules can be used at the same time.
- Simple integration into power monitoring systems with the Basic or Advanced modular metering functions according to IEC 61557-12 for Electronic Trip Units of the 6-series.
- Simple integration into plant monitoring systems for monitoring status / measured values / alarms and warnings / diagnostics / maintenance.
- Significant additional benefits for the switchboard due to the possibility of connecting internal and external input and output modules to the 3WL10 air circuit breaker.
- Innovative software products for commissioning, testing, parameterization, operation, monitoring, documentation and diagnostics of circuit breakers, locally via display, test or gateway devices, or via the communication modules.
- Integration of the circuit breakers into the Totally Integrated Power (TIP) and Totally Integrated Automation (TIA) solutions.

Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Introduction

1

Benefits

Low space requirements

The 3WL10 air circuit breakers are extremely compact. 3-pole and 4-pole devices of size 0 fit into a 400 mm wide switchboard panel. Two 3-pole 3WL10 circuit breakers can also be installed side by side in a 600 mm wide switchboard panel. There is no derating of the circuit breaker according to IEC 60947-2 up to 70 °C.

Modular design

Components such as auxiliary releases, spring charging motors, Electronic Trip Units, external current sensors, auxiliary circuit signaling switches, automatic reset devices, and interlocks can all be exchanged or retrofitted at a later stage, thus allowing the circuit breaker to be adapted to new, changing requirements.

Flexible connection and mounting options

Apart from the customary method of connecting an ACB from the rear side, the 3WL10 can also be mounted in the control cabinet on a mounting plate and connected in a fixed-mounted version like an MCCB from the front side using busbars or cables.

Retrofittable modules for Electronic Trip Units

Upgrading the Electronic Trip Unit is possible at any time. This is done simply by replacing the ETU. For example, the RC functionality for residual current protection can be supplemented by replacing the rating plug in the ETU660.

Rating plugs, the metering function, and communication modules for the Electronic Trip Units are available for fast and easy retrofitting and adaptation to changing requirements.

Communication/metering functions

The use of modern communication-capable circuit breakers opens up completely new possibilities in terms of start-up, parameterization, diagnostics, maintenance and operation. This allows many different ways of reducing costs and improving productivity in industrial plants, buildings and infrastructure projects to be achieved:

- Simultaneous use of up to two different bus systems, such as Profibus, Profinet, Modbus TCP, or Modbus RTU.
- Fast and secure parameterization via the communication path, via test devices as a connection to the mobile terminal, or on the display itself.
- Timely information and response can prevent plant stoppages.
- Effective diagnostics management.
- Measured values are the basis for efficient load management for drawing up power demand profiles and for allocating energy to cost centers.
- Preventive maintenance reduces the risk of expensive plant downtimes.
- Metering function with a very wide range of measured values, such as current, voltage, energy, power, etc.
- Readout of the measuring interval memory in order to identify trends in the plant.
- Readout of the high-resolution datalog buffer in order to perform network analyses of current and voltage characteristics.

Application

- As incoming-feeder, distribution, tie, and outgoing-feeder circuit breakers in electrical installations.
- For switching and protecting motors, capacitors, generators, transformers, busbars and cables.

When connected to an electronic I&C system, the 3WL10 air circuit breakers offer a wide range of options for monitoring network events.

Air circuit breakers belong to the SENTRON product family of protection, switching, measuring and monitoring devices and can be used in applications between 16 A and 6300 A.

The AC version devices are available as circuit breakers and non-automatic air circuit breakers according to IEC 60947-3.

Standards

The 3WL10 air circuit breakers comply with the following standards:

- IEC 60947-2 for circuit breakers
- IEC 60947-3 for non-automatic air circuit breakers
- IEC 60947-2 Appendix F / CISPR 11/22 Class B
- Climate-proof according to IEC 60068-2-30.



Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

General data

1

Technical specifications

Switching capacity			B	B	N	N	S	S
Number of poles			3-pole, 4-pole					
Rated operational current	I_n	40 °C	A 630, 800, 1000, 1250					
Rated operational voltage	U_e	AC (50/60 Hz)	V Up to 690					
Rated insulation voltage	U_i	AC (50/60 Hz)	V 1000					
Rated impulse withstand voltage	U_{imp}		kV 12					
Current carrying capacity of the neutral conductor for 4-pole circuit breakers			% I_u 100					
Rated ultimate short-circuit breaking capacity AC	I_{cu}	440 V AC	kA	42	55	66		
	I_{cu}	500 V AC	kA	42	50	50		
	I_{cu}	690 V AC	kA	--	42	50		
Rated service short-circuit breaking capacity AC	I_{cs}	440 V AC	kA	42	50	50		
	I_{cs}	500 V AC	kA	42	50	50		
	I_{cs}	690 V AC	kA	--	42	50		
Rated short-circuit making capacity AC	I_{cm}	440 V AC	kA	88	121	145		
	I_{cm}	500 V AC	kA	88	105	105		
	I_{cm}	690 V AC	kA	--	88	105		
Rated short-time withstand current	I_{cw}	1 s	kA	42	42	50		
	I_{cw}	3 s	kA	24	24	36		
Break time on opening	$I < I_{cw}$		ms	40	40	40		
	$I > I_{cw}$		ms	25	25	25		
Rated conditional short-circuit current of the non-automatic air circuit breakers	I_{cc}		kA	--	42	50		
Dimensions (3-pole)	H	Fixed / Withdrawable	mm	296 / 363.5				
	T	Fixed / Withdrawable	mm	183 / 271				
	B	Fixed / Withdrawable	mm	210 / 278				
Dimensions (4-pole)	H	Fixed / Withdrawable	mm	296 / 363.5				
	T	Fixed / Withdrawable	mm	183 / 271				
	B	Fixed / Withdrawable	mm	280 / 348				
Weight (with ETU and current sensor, 3-pole)			kg	14 / 38				
Weight (with ETU and current sensor, 4-pole)			kg	16 / 43				
Conductor cross-sections, copper conductor bars, bare	I_u	630	mm	2 x 40 x 5	Yes	Yes	Horizontal connection	Vertical connection
		800	mm	2 x 50 x 5	Yes	Yes		
	I_u	1000	mm	2 x 40 x 10	Yes	--		
				2 x 40 x 8	--	Yes		
	I_u	1250	mm	2 x 50 x 10	Yes	--		
				2 x 50 x 8	--	Yes		
Mounting position	Fixed							
	Withdrawable							
Switching frequency	Mechanical	1/h	60					
	Electrical	1/h	30					
Endurance	Mechanical with maintenance	Switching cycles	20000					
	Electrical ≤ 440 V AC	Switching cycles	8000					
	Electrical ≤ 690 V AC	Switching cycles	8000 at 1000 A rated current, 6500 at 1250 A rated current					
Power loss	Fixed	W	630 A = 31 W					
		W	800 A = 50 W					
		W	1000 A = 78 W					
		W	1250 A = 122 W					
	Withdrawable	W	630 A = 62 W					
		W	800 A = 100 W					
		W	1000 A = 156 W					
		W	1250 A = 244 W					

Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

General data

Undervoltage release (UVR)

The undervoltage release trips the circuit breaker if the rated voltage U_n fails or drops to between 70% and 35% of its normal value. The undervoltage release can be used for:

- Safe remote tripping
- Interlocking during closure
- Checking the voltage in the primary and secondary circuits

Note

The circuit breaker can be reclosed at a coil supply voltage of 85% to 110% U_n .

Technical specifications

	AC	DC
Power supply (U_n)	24 V	X
	30 V	X
	48 V	X
	60 V	X
	110 ... 120 V	X
	220 ... 240 V	X
	240 ... 250 V	X
Operating limits	ST: 70 ... 110% U_n	
	CC: 85 ... 110% U_n	
Switch-on power (P_s)	300 VA	300 W
Continuous power (P_c)	3.5 VA	3.5 W
Break time YU	30 ms	

Time-delay device (adjustable) for UVR

The undervoltage release (UVR) can be coupled with an external electronic time-delay device which permits a delayed response to the release. The response time can be adjusted in steps of between 0.5 s and 3 s.

This prevents the circuit breaker / non-automatic air circuit breaker from being switched off by the undervoltage release if the control voltage of the undervoltage release is subject to short breaks or interruptions.

Note

Undervoltage releases and time-delay devices must be designed for the same control voltage.

The time-delay device is installed outside the circuit breaker on a standard mounting rail.

Technical specifications

Configuration	AC	DC
Power supply (U_n)	24 V	X
	30 V	X
	48 V	X
	60 V	X
	110 ... 127 V	X
	220 ... 250 V	X
	Adjustable break time (UVR + delay)	0.5 / 1 / 1.5 / 2 / 3 s

Closing coil (CC) / shunt release (ST)

Using the auxiliary trip units / closing coils, the circuit breaker can be tripped by remote access.

Closing (breaker position CLOSED) is only possible if the closing springs are charged and the circuit breaker is ready for closing. Opening (breaker position OPEN) is always possible.

The coils work with a current pulse ≥ 100 ms or with constant power input.

Technical specifications

	AC	DC
Power supply (U_n)	24 V	X
	30 V	X
	48 V	X
	60 V	X
	110 ... 120 V	X
	220 ... 240 V	X
	240 ... 250 V	X
	380 ... 400 V	X
	415 ... 440 V	X
Operating limits	ST: 70 ... 110% U_n	
	CC: 85 ... 110% U_n	
Switch-on power	300 VA	300 W
Continuous power	3.5 VA	3.5 W
Break time ST	20 ms	
Make time CC	50 ms	

Remote reset magnet (RR)

With the remote reset magnet (RR), the mechanical tripped signal can be reset remotely.

Technical specifications

	AC	DC
Power supply (U_n)	24 V	X
	110 V	X
	250 V	X
Operating limits	90 ... 110% U_n	

Spring charging motor (MO)

The spring charging motor (MO) automatically charges the spring assembly if they are discharged and if voltage is applied to the motor.

Technical specifications

	AC	DC
Power supply (U_n)	24 V	X
	30 V	X
	48 V	X
	60 V	X
	100 ... 130 V	X
	220 ... 250 V	X
Operating limits (acc. to IEC 60947-2)	85 ... 110% U_n	
Switch-on power	300 VA	300 W
Continuous power	100 VA	100 W
Make time	200 ms	
Charging time	8 s	

Spring charged signaling switch (S21)

The spring charged signaling switch (S21) signals by means of a remote display the charging status of the spring assembly of the circuit breaker.

The contact is available in the standard version or in a version for digital signals. The signaling contact can only be operated in conjunction with the spring charging motor.

Technical specifications

	Standard contact	Contact for digital signal	
Type	Changeover contact	Changeover contact	
Smallest load	100 mA at 24 V	1 mA at 5 V	
Breaking capacity	DC 24 V	--	
		125 V	0.3 A at 0 ms
		250 V	0.15 A at 0 ms
	AC 250 V	5 A at cos 1	--
		5 A at cos 0.7	--
		5 A at cos 0.3	--
	400 V	3 A at cos 1	--
		2 A at cos 0.7	--
		1 A at cos 0.3	--

Position signaling switch PSS for guide frame

The position signaling switches are used in the withdrawable breaker and signal whether the circuit breaker is in the "CONNECT", "TEST" or "DISCONNECT" position. Two change-over contacts are available for displaying each position.

Technical specifications

Configuration	Position auxiliary contacts - PSS 6 auxiliary contacts		
Standard contact	X		
Contact for digital signal	X		
	Standard contact	Contact for digital signal	
Type	Changeover contact	Changeover contact	
Smallest load	100 mA at 24 V	1 mA at 5 V	
Breaking capacity	DC 24 V	--	
		125 V	0.3 A at 0 ms
		250 V	0.15 A at 0 ms
	AC 250 V	5 A at cos φ 1	--
		5 A at cos φ 0.7	--
		5 A at cos φ 0.3	--
	400 V	3 A at cos φ 1	--
		2 A at cos φ 0.7	--
		1 A at cos φ 0.3	--

Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

1

General data

Ready-to-close signaling switch (RTC)

The signaling contact for ready-to-close (RTC) is used to query whether the circuit breaker is ready for closing.

The following conditions must be met before the circuit breaker is ready to close:

- Circuit breaker in the OPEN position
- Springs charged
- Switch-off command or interlocking with switch-off command is not pending
- Undervoltage release charged
- Mechanical tripped signal reset

Technical specifications

	Standard contact	Contact for digital signal
Type	Changeover contact	
Smallest load	100 mA at 24 V	1 mA at 5 V
Breaking capacity	DC 24 V	--
	250 V	0.5 A at 0 ms
		0.2 A at 10 ms
	AC 250 V	3 A at $\cos \varphi 0.7$

Auxiliary switch AUX

The auxiliary contacts signal the current CLOSED or OPEN position of the circuit breaker.

By default, four standard contacts are supplied with the circuit breakers. A maximum of 19 CLOSED / OPEN auxiliary contacts can be made available. Of these, four are installed internally in the switch and 15 externally.

Technical specifications

Configuration	AUX 4 CO 4 auxiliary contacts	AUX 15 CO 15 additional external auxiliary contacts
Standard contact	X	X
Contact for digital signal	X	X
Mixed	X	--

	Standard contact	Contact for digital signal
Type	Changeover contact	Changeover contact
Smallest load	100 mA at 24 V	1 mA at 5 V
Breaking capacity	DC 24 V	--
	125 V	0.3 A at 10 ms
	250 V	0.15 A at 10 ms
	AC 250 V	5 A at $\cos \varphi 1$
		5 A at $\cos \varphi 0.7$
		5 A at $\cos \varphi 0.3$
	400 V	3 A at $\cos \varphi 1$
		2 A at $\cos \varphi 0.7$
		1 A at $\cos \varphi 0.3$

Tripped signaling switch (S24)

The contact signals when the circuit breaker has been tripped by the Electronic Trip Unit ETU.

The standard version of this changeover contact is supplied by default with every circuit breaker. The tripped signaling switch (S24) is also optionally available in a version for digital signals.

Technical specifications

	Standard contact	Contact for digital signal
Type	Changeover contact	
Smallest load	100 mA at 24 V	1 mA at 5 V
Breaking capacity	DC 24 V	--
	250 V	0.5 A at 0 ms
		0.2 A at 10 ms
	AC 250 V	3 A at $\cos \varphi 0.7$

Breaker Connect module, external power supply

Via the Breaker Connect Module, the Electronic Trip Units and accessory modules on the auxiliary contact system can be fed with an auxiliary AC or DC supply available in the switchboard. The external power supply module can be installed at any time on the auxiliary contact system of the circuit breaker and permits installation of plug-in modules for communication and digital inputs/outputs.

As an additional function, it conducts the internal CB bus outside and thus permits the connection of the CB bus modules for communication I/O functionalities: IOM040 and the external IOM300 (which can also be connected directly to the equivalent contact without a Breaker Connect module on CB1 / CB2).

Depending on the supply voltage used, the following versions are available:

- External power supply 110 to 240 V AC/DC
- External power supply 24 to 48 V DC

Actuator module (COM ACT)

The actuator module (COM ACT) is a communication link for the remote operation of auxiliary solenoids (CC/ST). With the actuator module, the 3WL10 air circuit breaker can be opened and closed by remote access.

Position signaling switch communication (COM PSS)

The position signaling switch COM PSS provides the signal via the communication link indicating whether the circuit breaker in the guide frame is inserted or removed.

Unlike the position signaling switch PSS, whose signals are available at the auxiliary conductor terminal system (see section on Accessories for auxiliary and signaling switches), the position switch COM PSS only signals two different states:

- INSERTED breaker position
(circuit breaker in the CONNECT position)
- ISOLATED breaker position
(circuit breaker in the TEST or DISCONNECT position)

Ready-to-close signaling switch for communication (COM RTC)

The ready-to-close signaling switch COM RTC provides the same information as the ready-to-close signaling switch RTC (see section on Accessories for auxiliary and signaling switches), i.e. it is used to query whether the circuit breaker is ready to close.

Unlike the RTC signaling switch, whose signals are available at the auxiliary contact system, the signals of the ready-to-close signaling switch COM RTC are forwarded via the communication link.

Internal digital I/O module IOM040

The digital I/O modules IOM040 provide two input and two output contacts for control and remote signaling of alarms and tripping of the circuit breaker. They can be used for the ETUs with display (6-series). Via the display of the ETU 6-series, defaults of the inputs and outputs can be selected and configured via the powerconfig software.

These modules are suitable for all ETUs of the 6-series.

External digital I/O module IOM300

The digital I/O modules IOM300 provide eleven input and ten output contacts for control and remote signaling of alarms and tripping of the circuit breaker. They can be used for the ETUs with display (6-series). Via the display of the ETU6xx, defaults of the inputs and outputs can be selected and configured via the powerconfig software. The IOM300 is intended for standard rail mounting.

The I/O module IOM300 can be fed from either a DC or AC supply and can be connected via the internal bus to the ETUs of the 3- and 6-series. This does not necessarily require a Breaker Connect module, but still offers the option of connection.

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Function overview of the electronic trip system

Protection functions		ETU320	ETU350	ETU360	ETU650	ETU660
		LI	LSI	LSIG	LSI	LSIG
LT	LT: Overload protection I_r Protection function can be enabled/ disabled	✓	✓	✓	✓ ✓ L-OFF rating plug	✓ ✓ L-OFF rating plug
	Setting range of operating value $I_r = I_n \times \dots$	0.4; 0.5; 0.6; 0.7; 0.75; 0.8; 0.85; 0.9; 0.95; 1; default 0.4	0.4; 0.5; 0.6; 0.7; 0.75; 0.8; 0.85; 0.9; 0.95; 1; default 0.4	0.4; 0.5; 0.6; 0.7; 0.75; 0.8; 0.85; 0.9; 0.95; 1; default 0.4	0.4 - 1; default 1 (in steps of 0.001)	0.4 - 1; default 1 (in steps of 0.001)
	Setting range for delay time t_r at $I^2 t$ (reference point $6 \times I_n$)	0.75; 1; 2; 5; 8; 10; 14; 17; 21; 25 s; default 0.75 s	0.75; 1; 2; 5; 8; 10; 14; 17; 21; 25 s; default 0.75 s	0.75; 1; 2; 5; 8; 10; 14; 17; 21; 25 s; default 0.75 s	0.75 - 36 s; (in steps of 0.25 s), default 36 s	0.75 - 36 s; (in steps of 0.25 s), default 36 s
	Overload protection mode switchable to characteristic IEC 60255-151	--	--	--	$I^4 t$: $\alpha=4$, $b=1296$ standard inverse SI: $\alpha=0.02$, $b=0.0364$ very inverse VI: $\alpha=1$, $b=5$ extremely inverse EI: $\alpha=2$, $b=35.2$ Default $I^2 t$	$I^4 t$: $\alpha=4$, $b=1296$ standard inverse SI: $\alpha=0.02$, $b=0.0364$ very inverse VI: $\alpha=1$, $b=5$ extremely inverse EI: $\alpha=2$, $b=35.2$ Default $I^2 t$
	$t_{\text{trip}} = \frac{t_r \times b}{\left(\frac{I_{\text{load}}}{I_r}\right)^\alpha - 1}$	--	--	--	--	--
	Setting range for delay time t_r for characteristic IEC 60255-151 (reference point $6 \times I_n$)	--	--	--	0.75 - 5 s; (in steps of 0.25 s); default 5 s	0.75 - 5 s; (in steps of 0.25 s); default 5 s
	Thermal memory can be enabled/disabled	--	--	--	✓	✓
	Overload pre-alarm	50% - 100% $\times I_r$; Default 90%; (in steps of 1%)	50% - 100% $\times I_r$; Default 90%; (in steps of 1%)	50% - 100% $\times I_r$; Default 90%; (in steps of 1%)	50% - 100% $\times I_r$; Default 90%; (in steps of 1%)	50% - 100% $\times I_r$; Default 90%; (in steps of 1%)
	ST: Short time-delayed short-circuit protection I_{sd}	--	✓	✓	✓	✓
	Protection function can be enabled/dis- abled	--	✓	✓	✓	✓
Characteristic	--	$I^2 t / t = \text{const.}$	$I^2 t / t = \text{const.}$	$I^2 t / t = \text{const.}$	$I^2 t / t = \text{const.}$	
Switchable short-time delayed short-circuit protection ($I^2 t$ -dependent function to fixed delay)	--	✓	✓	✓	✓	
Setting range of operating value $I_{sd} = I_n \times \dots$	--	1; 1.5; 2; 2.5; 3; 4; 6; 8; 10; default OFF	1; 1.5; 2; 2.5; 3; 4; 6; 8; 10; default OFF	0.6 - 10; default OFF; (in steps of 0.1)	0.6 - 10; default 1.5 OFF; (in steps of 0.1)	
Switchable short-time delayed short-circuit protection ($I^2 t$ -dependent function)	--	✓	✓	✓	✓	
Setting range for delay time t_{sd} (constant delay $t = k$)	--	0.08; 0.15; 0.22; 0.3; 0.4	0.08; 0.15; 0.22; 0.3; 0.4	0.05 - 0.4 s; default 0.05; (in steps of 0.01)	0.05 - 0.4 s; default 0.05; (in steps of 0.01)	
Setting range for delay time t_{sd} at $I^2 t$ (reference point $10 \times I_n$)	--	0.1; 0.2; 0.3; 0.4; 0.5; ($I^2 t$ dependent); default 0.1	0.1; 0.2; 0.3; 0.4; 0.5; ($I^2 t$ dependent); default 0.1	0.05 - 0.5 s ($I^2 t$ dependent) (in steps of 0.01)	0.05 - 0.5 s ($I^2 t$ dependent) (in steps of 0.01)	
Tripping can be disabled	--	--	--	✓	✓	
Switchover to alternate operating values with short-time-delayed short-circuit current during the switch-on phase (inrush adaptation) for tripping characteristic $t = k$ (fixed) possible	--	--	--	✓ Default OFF	✓ Default OFF	
Setting range of the switch-on phase (inrush adaptation)	--	--	--	0.10 - 30 s; default 0.1; (in steps of 0.01)	0.10 - 30 s; default 0.1; (in steps of 0.01)	
Setting range $I_{sd} = I_n \times \dots$ during the switch-on phase (inrush adaptation)	--	--	--	0.6 - 10; default 10; (in steps of 0.1)	0.6 - 10; default 10; (in steps of 0.1)	
ZSI function test	--	--	--	--	--	
INST: Instantaneous short-circuit protection I_i	✓	✓	✓	✓	✓	
Protection function can be enabled/ disabled	✓	✓	✓	✓	✓	
Setting range $I_i = I_n \times \dots$	OFF; 1.5; 2; 3; 4; 6; 8; 10; 12; 15; default 1.5	OFF; 1.5; 2; 3; 4; 6; 8; 10; 12; 15; default 1.5	OFF; 1.5; 2; 3; 4; 6; 8; 10; 12; 15; default 1.5	1.5 - 15; default 2; (in steps of 0.1)	1.5 - 15; default 2; (in steps of 0.1)	
Switchover to alternate operating values with instantaneous short-circuit current during the switch-on phase (inrush adaptation) for tripping characteristic $t = k$ (fixed) possible	--	--	--	✓ Default OFF	✓ Default OFF	
Setting range of the switch-on phase (inrush adaptation)	--	--	--	0.10 - 30 s; default 0.1; (in steps of 0.01)	0.10 - 30 s; default 0.1; (in steps of 0.01)	
Setting range $I_i = I_n \times \dots$ during the switch- on phase (inrush adaptation)	--	--	--	1.5 - 15; default 1.5; (in steps of 0.1)	1.5 - 15; default 1.5; (in steps of 0.1)	
N Neutral protection	✓	✓	✓	✓	✓	
Neutral protection can be enabled/disabled	✓	✓	✓	✓	✓	
Current setting value $I_N = I_n \times \dots$	50%; 100%; 200%; default 50%	50%; 100%; 200%; default 50%	50%; 100%; 200%; default 50%	50%; 100%; 150%; 200%	50%; 100%; 150%; 200%	

Protection functions	ETU320 LI	ETU350 LSI	ETU360 LSIG	ETU650 LSI	ETU660 LSIG
GF: Ground-fault protection I_g	--	--	✓	--	✓
Protection function can be enabled/ disabled	--	--	✓	--	✓
Ground-fault protection characteristic	--	--	$t = \text{const.} / I^2 t$; default $I^2 t$	--	$t = \text{const.} / I^2 t$; default const.
Setting range for operating value $I_g = I_n \times \dots$	--	--	0.1; 0.2; 0.3; 0.4; 0.5; 0.6; 0.7; 0.8; 1; default 0.1	--	0.1 - 1; default 0.1; (in steps of 0.001)
Setting range for delay time t_g (constant delay $t = k$)	--	--	0.1; 0.2; 0.4; 0.6; 0.8 s; (fixed delay)	--	0.1 s - 1 s; default 0.1 s; (in steps of 0.05 s)
Setting range for delay time t_g at $I^2 t$ (reference point $2 \times I_n$)	--	--	0.1; 0.2; 0.4; 0.6; 0.8 s ($I^2 t$ dependent); Default 0.1 ($I^2 t$)	--	0.1 s - 1 s; (in steps of 0.05 s)
Ground-fault protection pre-alarm	--	--	--	--	50% - 90% $\times I_r$; Default 90%; (in steps of 1%)
G Tripping can be disabled	--	--	--	--	✓
Switchover to the alternative of the external, directly measured ground-fault protection	--	--	--	--	✓ Default OFF
Switchover to alternative operating values with short-time-delayed short-circuit current during the switch-on phase (inrush adaptation) for tripping characteristic $t = k$ (fixed) possible	--	--	--	--	✓ Default OFF
Setting range of the switch-on phase (inrush adaptation)	--	--	--	--	0.10 - 30 s; default 0.1; (in steps of 0.01)
Extended parameter range with external auxiliary power supply of the ETU	--	--	I_g full range, otherwise I_g limited to min. 0.2 I_n or 0.25 I_n (for $I_n = 400$ A)	--	I_g full range, otherwise I_g limited to min. 0.2 I_n or 0.25 I_n (for $I_n = 400$ A) - t_g instanta- neous possible
ZSI G function test	--	--	--	--	--

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Protection functions	ETU320 LI	ETU350 LSI	ETU360 LSIG	ETU650 LSI	ETU660 LSIG	
G direct	GF direct: Ground-fault protection direct measurement	--	--	--	--	✓ Default: Not installed;
	Protection function can be selected	--	--	--	--	Ground fault return transformer or RC transformer required.
	R_c - Residual current protection (with summation current transformer)	--	--	--	--	
	G_{ret} - Ground-fault return (transformer in the star point)	--	--	--	--	✓ Alternative to GF and GRET; default OFF; can be activated with rating plug R_c & metering function Advanced
	R_c - Residual current protection (with summation current transformer)	--	--	--	--	✓ Alternative to GF and GRET; default OFF; can be activated with rating plug R_c & metering function Advanced
	Setting range of residual current operating value $I_{\Delta n}$ [A]	--	--	--	--	$I_{\Delta n}$ =3; 5; 7; 10; 20; 30 A; Default OFF; can be activated with rating plug R_c & metering function Advanced
	Setting range for delay time $t_{\Delta n}$	--	--	--	--	$t_{\Delta n}$ = 0.06 - 0.1 - 0.2 - 0.3 - 0.4 - 0.5 - 0.8 s
	G_{ret} - ground-fault return (transformer in star point)	--	--	--	--	✓ Alternative to GF and R_c ; external power supply required.
	Design of G_{ret} transformer (ground-fault return CT - I_{CT_rating})	--	--	--	--	100 A; 250 A; Default 100 A
	Setting range operating value ground-fault return $I_{g_ret} = I_{CT_rating} \times \dots$	--	--	--	--	0.1 - 1 x I_{CT_rating} ; default 0.1; (in steps of 0.001)
	Setting range of delay time t_{g_ret} (fixed) $t = k$	--	--	--	--	0.1 s - 1 s; default 0.1 s; (in steps of 0.05 s)
	Setting range of delay time t_{g_ret} at $I^2 t$ (reference point $4 \times I_n$)	--	--	--	--	0.1 s - 1 s; (in steps of 0.05 s)
	Ground-fault return pre-alarm	--	--	--	--	50% - 90% x I_r ; Default 90%; (in steps of 1%)
Switchover to alternative operating values with ground-fault current during the switch-on phase (inrush adaptation) for tripping characteristic $t = k$ (fixed) possible	--	--	--	--	✓ Default OFF	
Setting range of the switch-on phase (inrush adaptation)	--	--	--	--	0.10 - 30 s; default 0.1; (in steps of 0.01)	
Setting range $I_g = I_n \times \dots$ during the switch-on phase (inrush adaptation)	--	--	--	--	0.1 - 1; default 1; (in steps of 0.01)	
DAS	DAS protection - Arc fault mitigation mode	--	--	--	✓	✓
	Protection function can be enabled/disabled	--	--	--	✓	✓
Setting range for operating value $I_{l_arc} = I_n \times \dots$	--	--	--	1.5 - 15; default 1.5; (in steps of 0.1)	1.5 - 15; default 1.5; (in steps of 0.1)	
Inba	Phase current unbalance I_{nba}	--	--	--	✓	✓
	Protection function can be enabled/disabled	--	--	--	✓	✓
	Setting range I_{nba} phase current unbalance	--	--	--	2% - 90%; default 50%; (in steps of 1%)	2% - 90%; default 50%; (in steps of 1%)
Setting range of the delay time t_{nba} for phase current unbalance	--	--	--	0.50 - 60 s; default 10 s; (in steps of 0.5 s)	0.50 - 60 s; default 10 s; (in steps of 0.5 s)	
Enabling/disabling of tripping on phase current unbalance	--	--	--	✓	✓	

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Enhanced protection functions - only available with metering function (MF Advanced)		ETU320	ETU350	ETU360	ETU650	ETU660
		LI	LSI	LSIG	LSI	LSIG
DST	Directed short-circuit protection DST Protection function can be enabled/disabled	--	--	--	✓	✓
	Enabling/disabling on directed (directional) short-circuit protection	--	--	--	✓	✓
	Setting range $I_{dsd} = I_n \times \dots$ in forward direction FW (top->bottom)	--	--	--	0.6 - 10; default 2; (in steps of 0.1)	0.6 - 10; default 2; (in steps of 0.1)
	Setting range $I_{dsd} = I_n \times \dots$ in backward direction BW (bottom->top)	--	--	--	0.6 - 10; default 2; (in steps of 0.1)	0.6 - 10; default 2; (in steps of 0.1)
	Switchable short-time delayed short-circuit protection ($I^2 t$ dependent function)	--	--	--	✓	✓
	Setting range of delay time t_{dsd} FW in forward direction	--	--	--	0.1 - 0.5 s; default 0.2; (in steps of 0.01)	0.1 - 0.5 s; default 0.2; (in steps of 0.01)
	Setting range of delay time t_{dsd} BW in backward direction	--	--	--	0.1 - 0.5 s; default 0.2; (in steps of 0.01)	0.1 - 0.5 s; default 0.2 s; (in steps of 0.01 s)
	Switchover to alternative operating values with directed short-circuit current during the switch-on phase (inrush adaptation) for tripping characteristic $t = k$ (fixed) possible	--	--	--	4	4
	Setting range of the switch-on phase	--	--	--	0.10 - 30 s; default 0.1; (in steps of 0.01)	0.10 - 30 s; default 0.1; (in steps of 0.01)
	Setting range $I_{dsd} = I_n \times \dots$ during the switch-on phase in the forward direction FW	--	--	--	0.6 - 10; default 2; (in steps of 0.1)	0.6 - 10; default 10; (in steps of 0.1)
Setting range $I_{dsd} = I_n \times \dots$ during the switch-on phase in the backward direction BW	--	--	--	0.6 - 10; default 2; (in steps of 0.1)	0.6 - 10; default 10; (in steps of 0.1)	
Settings DST phase difference angle	--	--	--	3.6°; 7.2°; 10.8°; 14.5°; 18.2°; 22.0°; 25.9°; 30°; 34.2°; 38.7°; 43.4°; 48.6°; 54.3°; 61.0°; 69.6°; default 3.6°		
Definition of direction of power flow	--	--	--	bottom -> top; top -> bottom; default value: top -> bottom		
U _{nba}	Phase voltage unbalance U_{nba} Protection function can be enabled/disabled	--	--	--	✓	✓
	Setting range U _{nba} phase voltage unbalance	--	--	--	2% - 90%; default 50%; (in steps of 1%)	2% - 90%; default 50%; (in steps of 1%)
	Setting range of the delay time $t_{nba(U)}$ for phase voltage unbalance	--	--	--	0.50 - 60 s; default 10 s; (in steps of 0.5 s)	0.50 - 60 s; default 10 s; (in steps of 0.5 s)
Enabling/disabling of tripping on phase voltage unbalance	--	--	--	✓	✓	
U _u	Undervoltage protection U_u Protection function can be enabled/disabled	--	--	--	✓	✓
	Setting range of undervoltage protection $U_u = U_n \times \dots$	--	--	--	0.5 - 0.98; default 0.9; (in steps of 0.01)	0.5 - 0.98; default 0.9; (in steps of 0.01)
	Setting range of the delay time for undervoltage protection $t_{u(U)}$	--	--	--	0.05 - 120 s; default 10; (in steps of 0.01)	0.05 - 120 s; default 10; (in steps of 0.01)
Enabling/disabling of tripping on undervoltage protection	--	--	--	✓	✓	
U _o	Overvoltage protection U_o Protection function can be enabled/disabled	--	--	--	✓	✓
	Setting range of overvoltage protection $U_o = U_n \times \dots$	--	--	--	1.02 - 1.5; default 1.05; (in steps of 0.01)	1.02 - 1.5; default 1.05; (in steps of 0.01)
	Setting range of the delay time for overvoltage protection $t_{o(U)}$	--	--	--	0.05 - 120 s; default 10 s; (in steps of 0.01 s)	0.05 - 120 s; default 10 s; (in steps of 0.01 s)
Enabling/disabling of tripping on overvoltage protection	--	--	--	✓	✓	
f _u	Underfrequency protection f_u Protection function can be enabled/disabled	--	--	--	✓	✓
	Setting range for underfrequency protection $f_u = f_n \times \dots$	--	--	--	0.9 - 0.999; default 0.9; (in steps of 0.001)	0.9 - 0.999; default 0.9; (in steps of 0.001)
	Setting range of the delay time for underfrequency $t_{u(f)}$	--	--	--	3 - 300 s; default 3 s; (in steps of 0.01 s)	3 - 300 s; default 3 s; (in steps of 0.01 s)
Enabling/disabling of tripping on underfrequency protection	--	--	--	✓	✓	
f _o	Overfrequency protection f_o Protection function can be enabled/disabled	--	--	--	✓	✓
	Setting range for overfrequency protection $f_o = f_n \times \dots$	--	--	--	1.001 - 1.1; default 1.1; (in steps of 0.001)	1.001 - 1.1; default 1.1; (in steps of 0.001)
	Setting range of the delay time for overfrequency $t_{o(f)}$	--	--	--	3 - 300 s; default 3 s; (in steps of 0.01 s)	3 - 300 s; default 3 s; (in steps of 0.01 s)
Enabling/disabling of tripping on overfrequency protection	--	--	--	✓	✓	

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Enhanced protection functions - only available with metering function (MF Advanced)		ETU320	ETU350	ETU360	ETU650	ETU660
		LI	LSI	LSIG	LSI	LSIG
RP	Reverse power protection: Reverse Power RP	--	--	--	✓	✓
	Protection function can be enabled/disabled	--	--	--	✓	✓
	Setting range for reverse power $P_{RP} = S_n \times \dots$	--	--	--	-0.050 to -1.0; default -0.1	-0.050 to -1.0; default -0.1
	Setting range of the delay time for reverse power protection	--	--	--	0.5 - 100 s; default 5 s; (in steps of 0.1 s)	0.5 - 100 s; default 5 s; (in steps of 0.1 s)
	Definition of direction of power flow	--	--	--	bottom -> top; top -> bottom; default: top -> bottom	
Enabling/disabling of tripping on reverse power	--	--	--	✓	✓	
Alarms	Pre-alarms PAL response thresholds - function trigger	--	--	--	✓	✓
	Enabling/disabling of PAL response threshold overload current $I_{r, pal(1)}$	--	--	--	✓	✓
	Enabling/disabling of PAL response threshold overload current $I_{r, pal(2)}$	--	--	--	✓	✓
	Setting range for PAL response threshold overload current $I_{r, pal(1)} = I_r \times \dots$	--	--	--	50%, 100%; default 50%; (in steps of 1%)	50%, 100%; default 50%; (in steps of 1%)
	Setting range for PAL response threshold overload current $I_{r, pal(2)} = I_r \times \dots$	--	--	--	50%, 100%; default 50%; (in steps of 1%)	50%, 100%; default 50%; (in steps of 1%)
	Enabling/disabling of PAL response threshold rated current $I_{n, pal(1)}$	--	--	--	✓	✓
	Enabling/disabling of PAL response threshold rated current $I_{n, pal(2)}$	--	--	--	✓	✓
	Setting range for PAL response threshold overload current $I_{n, pal(1)} = I_n \times \dots$	--	--	--	0.1 - 10; default 3; (in steps of 0.01)	0.1 - 10; default 3; (in steps of 0.01)
	Setting range for PAL response threshold overload current $I_{n, pal(2)} = I_n \times \dots$	--	--	--	0.1 - 10; default 3; (in steps of 0.01)	0.1 - 10; default 3; (in steps of 0.01)
	Crossing the response threshold rated current $I_{n, pal(1)}$ Direction: from bottom, or from top	--	--	--	Default value: top -> bottom	Default value: top -> bottom
	Crossing the response threshold rated current $I_{n, pal(2)}$ Direction: from bottom, or from top	--	--	--	Default value: top -> bottom	Default value: top -> bottom
	Checking the phase sequence / alarm	--	--	--	✓	✓
	Checking the phase sequence can be enabled/disabled	--	--	--	✓	✓
	Setting range for phase sequence	--	--	--	L1L2L3; L3L2L1; Default L1L2L3	L1L2L3; L3L2L1; Default L1L2L3
	Trip/alarm COS PHI	--	--	--	✓	✓
Trip COS PHI can be enabled/disabled	--	--	--	✓	✓	
Setting range for checking the COS PHI	--	--	--	0.50 - 0.95; default 0.95; (in steps of 0.01)	0.50 - 0.95; default 0.95; (in steps of 0.01)	
Funct.	Frequency adaptation					
	Frequency adaptation for ETU 3-series using DIP switch; for ETU 6-series using menu	50 Hz; 60 Hz; default 50 Hz	50 Hz; 60 Hz; default 50 Hz	50 Hz; 60 Hz; default 50 Hz	50 Hz; 60 Hz; default 50 Hz	50 Hz; 60 Hz; default 50 Hz
Funct.	Nominal voltage adaptation					
	Nominal voltage	--	--	--	100 VAC - 690 VAC; Default 400 VAC	100 VAC - 690 VAC; Default 400 VAC

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Function overview of the electronic trip system

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Equipment features of the ETU types	ETU320 LI	ETU350 LSI	ETU360 LSIG	ETU650 LSI	ETU660 LSIG
Protection					
Line protection	✓	✓	✓	✓	✓
Generator protection	✓	✓	✓	✓	✓
Residual current protection (Rc)	--	--	--	--	✓
Ground-fault protection with current measurement at the star point (G _{RET})	--	--	--	--	✓
MCR protection function - Making current release (switchover to short circuit) with reduced trip time due to instantaneous release (INST) with subsequent deactivation of the INST	--	--	--	✓	✓
Monitoring of the start-up phase by changing the operating values (LT, ST, GF) during heavy starting or in the case of high inrush currents	--	--	--	✓	✓
Monitoring of direction of power flow (with metering function MF)	--	--	--	✓	✓
2nd parameter set	--	--	--	✓	✓
Equipment					
LCD	--	--	--	✓	✓
Setting with rotary coding switch	✓	✓	✓	--	--
Setting via control buttons next to the ETU display	--	--	--	✓	✓
Data display via control buttons next to the ETU display	--	--	--	✓	✓
Metering function as option MF Basic	--	--	--	✓	✓
Metering function as option MF Advanced	--	--	--	✓	✓
Internal I/O module IOM040 with 2 inputs and 2 outputs as an option	--	--	--	✓	✓
External I/O module IOM300 with 10I and 11O as an option	--	--	--	✓	✓
Front interface for parameterization, testing, and data read-out	✓	✓	✓	✓	✓
Communication					
Communication Modbus RTU, Modbus TCP, Profibus, or Profinet as an option	--	--	--	✓	✓
Self-monitoring and diagnostics					
Watchdog monitored (hardware, firmware) (tripping or only alarm)	✓	✓	✓	✓	✓
Continuous CT and tripping coil monitoring (tripping or only alarm)	✓	✓	✓	✓	✓
Protection by temperature monitoring (can be disabled)	✓	✓	✓	✓	✓
Thermal memory (LT adaptation) can be disabled	--	--	--	✓	✓
Write protection for communication	--	--	--	✓	✓
Deactivation of communication for external access	--	--	--	✓	✓

Air Circuit Breakers

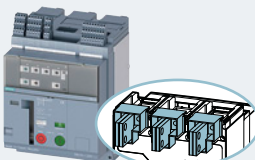
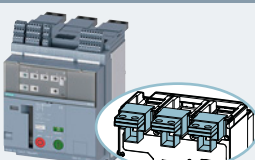
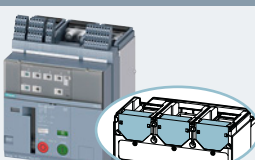
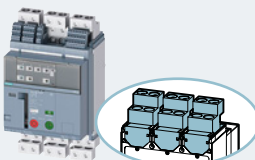
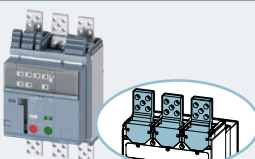
3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

3-pole, fixed breaker versions

1

Selection and ordering data

	Max. rated circuit breaker current $I_{n \text{ max.}}$	SD	I_{cu} 42 kA at 440 V, BASIC breaking capacity B B	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Rear vertical connection						
	630 800 1000 1250		3WL1006-1□□01-□□□□ 3WL1008-1□□01-□□□□ 3WL1010-1□□01-□□□□ 3WL1012-1□□01-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Rear horizontal connection						
	630 800 1000 1250		3WL1006-1□□02-□□□□ 3WL1008-1□□02-□□□□ 3WL1010-1□□02-□□□□ 3WL1012-1□□02-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front terminal for main circuit connection						
	630 800 1000 1250		3WL1006-1□□03-□□□□ 3WL1008-1□□03-□□□□ 3WL1010-1□□03-□□□□ 3WL1012-1□□03-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Circular conductor terminal for CuAl cable, front terminal for main circuit connection						
	630 800 1000 1250		3WL1006-1□□04-□□□□ 3WL1008-1□□04-□□□□ 3WL1010-1□□04-□□□□ 3WL1012-1□□04-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front connection bars, extended						
	630 800 1000 1250		3WL1006-1□□05-□□□□ 3WL1008-1□□05-□□□□ 3WL1010-1□□05-□□□□ 3WL1012-1□□05-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Versions						
ETU3xx - Communications interface and metering function are not possible for ETU3xx						
with ETU320 (LI)		A B				✓
with ETU350 (LSI)		A C				✓
with ETU360 (LSIG)		A D				✓
ETU6xx - Expandable with communications interface and metering function						
with ETU650 (LSI)		E				✓
with ETU660 (LSIG)		F				✓
	With display, without communications interface, without metering function	A				None
	With display, with communications interface, without metering function	B				✓
	With display, with communications interface, with Basic metering function (voltage tap at bottom)	C				✓
	With display, with communications interface, with Basic metering function (voltage tap at top)	D				✓
	With display, with communications interface, with Advanced metering function (voltage tap at bottom)	E				✓
	With display, with communications interface, with Advanced metering function (voltage tap at top)	F				✓

Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

3-pole, fixed breaker versions

1


	Max. rated circuit breaker current $I_{n \text{ max.}}$	SD	I_{cu} 55 kA at 440 V, ECO breaking capacity N	(N)	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article.No.	Basic price per PU			
Rear vertical connection	630 800 1000 1250		3WL1006-2□□01-□□□□ 3WL1008-2□□01-□□□□ 3WL1010-2□□01-□□□□ 3WL1012-2□□01-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Rear horizontal connection	630 800 1000 1250		3WL1006-2□□02-□□□□ 3WL1008-2□□02-□□□□ 3WL1010-2□□02-□□□□ 3WL1012-2□□02-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front terminal for main circuit connection	630 800 1000 1250		3WL1006-2□□03-□□□□ 3WL1008-2□□03-□□□□ 3WL1010-2□□03-□□□□ 3WL1012-2□□03-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Circular conductor terminal for CuAl cable, front terminal for main circuit connection	630 800 1000 1250		3WL1006-2□□04-□□□□ 3WL1008-2□□04-□□□□ 3WL1010-2□□04-□□□□ 3WL1012-2□□04-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front connection bars, extended	630 800 1000 1250		3WL1006-2□□05-□□□□ 3WL1008-2□□05-□□□□ 3WL1010-2□□05-□□□□ 3WL1012-2□□05-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA

Versions		Additional price	
Communications interface and metering function are not possible for ETU3xx			
with ETU320 (LI)	A B	✓	
with ETU350 (LSI)	A C	✓	
with ETU360 (LSIG)	A D	✓	
ETU6xx - Expandable with communications interface and metering function			
with ETU650 (LSI)	E	✓	
with ETU660 (LSIG)	F	✓	
	With display, without communications interface, without metering function	A	None
	With display, with communications interface, without metering function	B	✓
	With display, with communications interface, with Basic metering function (voltage tap at bottom)	C	✓
	With display, with communications interface, with Basic metering function (voltage tap at top)	D	✓
	With display, with communications interface, with Advanced metering function (voltage tap at bottom)	E	✓
	With display, with communications interface, with Advanced metering function (voltage tap at top)	F	✓

Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

3-pole, fixed breaker versions

	Max. rated circuit breaker current $I_{n \text{ max.}}$	SD	I_{cu} 66 kA at 440 V, standard breaking capacity S		Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	d						
Rear vertical connection	630 800 1000 1250		3WL1006-3□□01-□□□□ 3WL1008-3□□01-□□□□ 3WL1010-3□□01-□□□□ 3WL1012-3□□01-□□□□			1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Rear horizontal connection	630 800 1000 1250		3WL1006-3□□02-□□□□ 3WL1008-3□□02-□□□□ 3WL1010-3□□02-□□□□ 3WL1012-3□□02-□□□□			1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front terminal for main circuit connection	630 800 1000 1250		3WL1006-3□□03-□□□□ 3WL1008-3□□03-□□□□ 3WL1010-3□□03-□□□□ 3WL1012-3□□03-□□□□			1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Circular conductor terminal for CuAl cable, rear terminal for main circuit connection	630 800 1000 1250		3WL1006-3□□04-□□□□ 3WL1008-3□□04-□□□□ 3WL1010-3□□04-□□□□ 3WL1012-3□□04-□□□□			1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front connection bars, extended	630 800 1000 1250		3WL1006-3□□05-□□□□ 3WL1008-3□□05-□□□□ 3WL1010-3□□05-□□□□ 3WL1012-3□□05-□□□□			1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA

Versions			Additional price
Communications interface and metering function are not possible for ETU3xx			
with ETU320 (LI)	A	B	✓
with ETU350 (LSI)	A	C	✓
with ETU360 (LSIG)	A	D	✓
ETU6xx - Expandable with communications interface and metering function			
with ETU650 (LSI)		E	✓
with ETU660 (LSIG)		F	✓
	With display, without communications interface, without metering function	A	None
	With display, with communications interface, without metering function	B	✓
	With display, with communications interface, with Basic metering function (voltage tap at bottom)	C	✓
	With display, with communications interface, with Basic metering function (voltage tap at top)	D	✓
	With display, with communications interface, with Advanced metering function (voltage tap at bottom)	E	✓
	With display, with communications interface, with Advanced metering function (voltage tap at top)	F	✓

Air Circuit Breakers


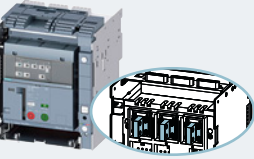
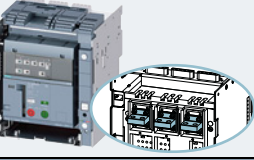
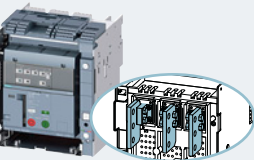
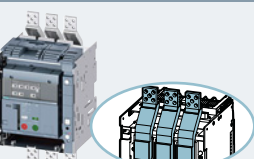
3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

3-pole, withdrawable breaker versions

1

Selection and ordering data

	Max. rated circuit breaker current $I_{n \text{ max.}}$	SD	I_{cu} 42 kA at 440 V, BASIC breaking capacity B B	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Withdrawable breaker version without guide frame						
	630 800 1000 1250		3WL1006-1□□30-□□□□ 3WL1008-1□□30-□□□□ 3WL1010-1□□30-□□□□ 3WL1012-1□□30-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
With guide frames, rear vertical connection						
	630 800 1000 1250		3WL1006-1□□31-□□□□ 3WL1008-1□□31-□□□□ 3WL1010-1□□31-□□□□ 3WL1012-1□□31-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
With guide frames, rear horizontal connection						
	630 800 1000 1250		3WL1006-1□□32-□□□□ 3WL1008-1□□32-□□□□ 3WL1010-1□□32-□□□□ 3WL1012-1□□32-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
With guide frame, circular conductor terminal for CuAl cable shoe, rear terminal for main circuit connection						
	630 800 1000 1250		3WL1006-1□□34-□□□□ 3WL1008-1□□34-□□□□ 3WL1010-1□□34-□□□□ 3WL1012-1□□34-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
With guide frame, front access, extended terminal for main circuit connection						
	630 800 1000 1250		3WL1006-1□□35-□□□□ 3WL1008-1□□35-□□□□ 3WL1010-1□□35-□□□□ 3WL1012-1□□35-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Versions						
Communications interface and metering function are not possible for ETU3xx				Additional price		
with ETU320 (LI)				A B		✓
with ETU350 (LSI)				A C		✓
with ETU360 (LSIG)				A D		✓
ETU6xx - Expandable with communications interface and metering function						
with ETU650 (LSI)				E		✓
with ETU660 (LSIG)				F		✓
	With display, without communications interface, without metering function			A		None
	With display, with communications interface, without metering function			B		✓
	With display, with communications interface, with Basic metering function (voltage tap at bottom)			C		✓
	With display, with communications interface, with Basic metering function (voltage tap at top)			D		✓
	With display, with communications interface, with Advanced metering function (voltage tap at bottom)			E		✓
	With display, with communications interface, with Advanced metering function (voltage tap at top)			F		✓



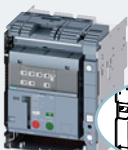


Minimum order quantity (PS) or a multiple thereof can be ordered.

Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

3-pole, withdrawable breaker versions

	Max. rated circuit breaker current $I_{n \text{ max.}}$	SD	I_{cu} 55 kA at 440 V, ECO breaking capacity N	(N)	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article.No.	Basic price per PU			
Withdrawable breaker version without guide frame							
	630		3WL1006-2□□30-□□□□		1	1 unit	1CA
	800		3WL1008-2□□30-□□□□		1	1 unit	1CA
	1000		3WL1010-2□□30-□□□□		1	1 unit	1CA
	1250		3WL1012-2□□30-□□□□		1	1 unit	1CA
With guide frames, rear vertical connection							
	630		3WL1006-2□□31-□□□□		1	1 unit	1CA
	800		3WL1008-2□□31-□□□□		1	1 unit	1CA
	1000		3WL1010-2□□31-□□□□		1	1 unit	1CA
	1250		3WL1012-2□□31-□□□□		1	1 unit	1CA
With guide frames, rear horizontal connection							
	630		3WL1006-2□□32-□□□□		1	1 unit	1CA
	800		3WL1008-2□□32-□□□□		1	1 unit	1CA
	1000		3WL1010-2□□32-□□□□		1	1 unit	1CA
	1250		3WL1012-2□□32-□□□□		1	1 unit	1CA
With guide frame, circular conductor terminal for CuAl cable shoe, rear terminal for main circuit connection							
	630		3WL1006-2□□34-□□□□		1	1 unit	1CA
	800		3WL1008-2□□34-□□□□		1	1 unit	1CA
	1000		3WL1010-2□□34-□□□□		1	1 unit	1CA
	1250		3WL1012-2□□34-□□□□		1	1 unit	1CA
With guide frame, front access, extended terminal for main circuit connection							
	630		3WL1006-2□□35-□□□□		1	1 unit	1CA
	800		3WL1008-2□□35-□□□□		1	1 unit	1CA
	1000		3WL1010-2□□35-□□□□		1	1 unit	1CA
	1250		3WL1012-2□□35-□□□□		1	1 unit	1CA

Versions		Additional price	
Communications interface and metering function are not possible for ETU3xx			
with ETU320 (LI)	A B	✓	
with ETU350 (LSI)	A C	✓	
with ETU360 (LSIG)	A D	✓	
ETU6xx - Expandable with communications interface and metering function			
with ETU650 (LSI)	E	✓	
with ETU660 (LSIG)	F	✓	
	With display, without communications interface, without metering function	A	None
	With display, with communications interface, without metering function	B	✓
	With display, with communications interface, with Basic metering function (voltage tap at bottom)	C	✓
	With display, with communications interface, with Basic metering function (voltage tap at top)	D	✓
	With display, with communications interface, with Advanced metering function (voltage tap at bottom)	E	✓
	With display, with communications interface, with Advanced metering function (voltage tap at top)	F	✓



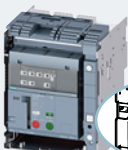


Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

3-pole, withdrawable breaker versions

1

	Max. rated circuit breaker current $I_{n \max}$	SD	I_{cu} 66 kA at 440 V, standard breaking capacity S	S	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?ArticleNo.	Basic price per PU			
Withdrawable breaker version without guide frame							
	630		3WL1006-30030-0000		1	1 unit	1CA
	800		3WL1008-30030-0000		1	1 unit	1CA
	1000		3WL1010-30030-0000		1	1 unit	1CA
	1250		3WL1012-30030-0000		1	1 unit	1CA
With guide frames, rear vertical connection							
	630		3WL1006-30031-0000		1	1 unit	1CA
	800		3WL1008-30031-0000		1	1 unit	1CA
	1000		3WL1010-30031-0000		1	1 unit	1CA
	1250		3WL1012-30031-0000		1	1 unit	1CA
With guide frames, rear horizontal connection							
	630		3WL1006-30032-0000		1	1 unit	1CA
	800		3WL1008-30032-0000		1	1 unit	1CA
	1000		3WL1010-30032-0000		1	1 unit	1CA
	1250		3WL1012-30032-0000		1	1 unit	1CA
With guide frame, circular conductor terminal for CuAl cable shoe, rear terminal for main circuit connection							
	630		3WL1006-30034-0000		1	1 unit	1CA
	800		3WL1008-30034-0000		1	1 unit	1CA
	1000		3WL1010-30034-0000		1	1 unit	1CA
	1250		3WL1012-30034-0000		1	1 unit	1CA
With guide frame, front access, extended terminal for main circuit connection							
	630		3WL1006-30035-0000		1	1 unit	1CA
	800		3WL1008-30035-0000		1	1 unit	1CA
	1000		3WL1010-30035-0000		1	1 unit	1CA
	1250		3WL1012-30035-0000		1	1 unit	1CA

Versions			Additional price
Communications interface and metering function are not possible for ETU3xx			
with ETU320 (LI)	A	B	✓
with ETU350 (LSI)	A	C	✓
with ETU360 (LSIG)	A	D	✓
ETU6xx - Expandable with communications interface and metering function			
with ETU650 (LSI)		E	✓
with ETU660 (LSIG)		F	✓
	With display, without communications interface, without metering function	A	None
	With display, with communications interface, without metering function	B	✓
	With display, with communications interface, with Basic metering function (voltage tap at bottom)	C	✓
	With display, with communications interface, with Basic metering function (voltage tap at top)	D	✓
	With display, with communications interface, with Advanced metering function (voltage tap at bottom)	E	✓
	With display, with communications interface, with Advanced metering function (voltage tap at top)	F	✓

Air Circuit Breakers

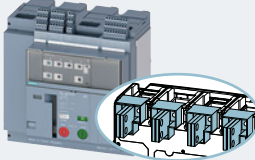
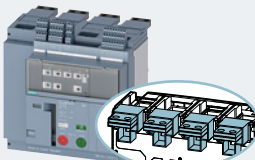
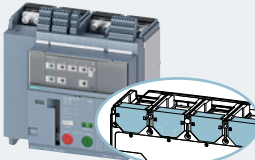
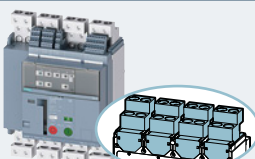
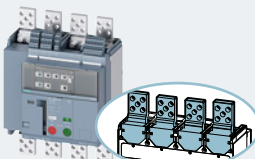
3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

4-pole, fixed breaker versions

1

Selection and ordering data

		Max. rated circuit breaker current I_n max.	SD	I_{cu} 42 kA at 440 V, BASIC breaking capacity B B	Basic price per PU	PU (UNIT, SET, M)	PS	PG
		A	d	Article No. www.siemens.com/ product?Article.No.				
Rear vertical connection								
	Neutral left	630		3WL1006-1□□11-□□□□		1	1 unit	1CA
		800		3WL1008-1□□11-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□11-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□11-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-1□□21-□□□□		1	1 unit	1CA
		800		3WL1008-1□□21-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□21-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□21-□□□□		1	1 unit	1CA
Rear horizontal connection								
	Neutral left	630		3WL1006-1□□12-□□□□		1	1 unit	1CA
		800		3WL1008-1□□12-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□12-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□12-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-1□□22-□□□□		1	1 unit	1CA
		800		3WL1008-1□□22-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□22-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□22-□□□□		1	1 unit	1CA
Front terminal for main circuit connection								
	Neutral left	630		3WL1006-1□□13-□□□□		1	1 unit	1CA
		800		3WL1008-1□□13-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□13-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□13-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-1□□23-□□□□		1	1 unit	1CA
		800		3WL1008-1□□23-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□23-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□23-□□□□		1	1 unit	1CA
Circular conductor terminal for CuAl cable, front terminal for main circuit connection								
	Neutral left	630		3WL1006-1□□14-□□□□		1	1 unit	1CA
		800		3WL1008-1□□14-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□14-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□14-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-1□□24-□□□□		1	1 unit	1CA
		800		3WL1008-1□□24-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□24-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□24-□□□□		1	1 unit	1CA
Front connection bars, extended								
	Neutral left	630		3WL1006-1□□15-□□□□		1	1 unit	1CA
		800		3WL1008-1□□15-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□15-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□15-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-1□□25-□□□□		1	1 unit	1CA
		800		3WL1008-1□□25-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□25-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□25-□□□□		1	1 unit	1CA

Versions

		Additional price
Communications interface and metering function are not possible for ETU3xx		
with ETU320 (LI)	A B	✓
with ETU350 (LSI)	A C	✓
with ETU360 (LSIG)	A D	✓
ETU6xx - Expandable with communications interface and metering function		
with ETU650 (LSI)	E	✓
with ETU660 (LSIG)	F	✓
With display, without communications interface, without metering function	A	None
With display, with communications interface, without metering function	B	✓
With display, with communications interface, with Basic metering function (voltage tap at bottom)	C	✓
With display, with communications interface, with Basic metering function (voltage tap at top)	D	✓
With display, with communications interface, with Advanced metering function (voltage tap at bottom)	E	✓
With display, with communications interface, with Advanced metering function (voltage tap at top)	F	✓

Air Circuit Breakers

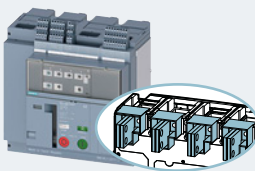
3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

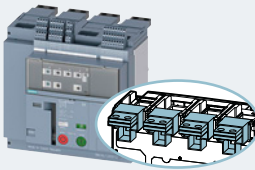
Size 0 for AC up to 1250 A

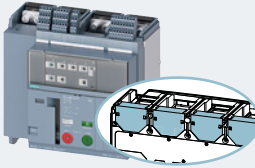
4-pole, fixed breaker versions

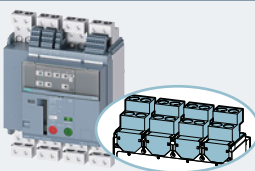
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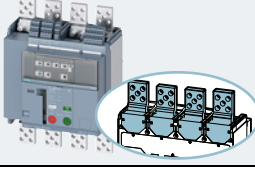
	Max. rated circuit breaker current I_n max.	SD	I_{cu} 55 kA at 440 V, ECO breaking capacity N	(N)	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.		Basic price per PU		

Rear vertical connection							
	Neutral left	630	3WL1006-20011-0000		1	1 unit	1CA
		800	3WL1008-20011-0000		1	1 unit	1CA
		1000	3WL1010-20011-0000		1	1 unit	1CA
		1250	3WL1012-20011-0000		1	1 unit	1CA
	Neutral right	630	3WL1006-20021-0000		1	1 unit	1CA
		800	3WL1008-20021-0000		1	1 unit	1CA
		1000	3WL1010-20021-0000		1	1 unit	1CA
		1250	3WL1012-20021-0000		1	1 unit	1CA

Rear horizontal connection							
	Neutral left	630	3WL1006-20012-0000		1	1 unit	1CA
		800	3WL1008-20012-0000		1	1 unit	1CA
		1000	3WL1010-20012-0000		1	1 unit	1CA
		1250	3WL1012-20012-0000		1	1 unit	1CA
	Neutral right	630	3WL1006-20022-0000		1	1 unit	1CA
		800	3WL1008-20022-0000		1	1 unit	1CA
		1000	3WL1010-20022-0000		1	1 unit	1CA
		1250	3WL1012-20022-0000		1	1 unit	1CA

Front terminal for main circuit connection							
	Neutral left	630	3WL1006-20013-0000		1	1 unit	1CA
		800	3WL1008-20013-0000		1	1 unit	1CA
		1000	3WL1010-20013-0000		1	1 unit	1CA
		1250	3WL1012-20013-0000		1	1 unit	1CA
	Neutral right	630	3WL1006-20023-0000		1	1 unit	1CA
		800	3WL1008-20023-0000		1	1 unit	1CA
		1000	3WL1010-20023-0000		1	1 unit	1CA
		1250	3WL1012-20023-0000		1	1 unit	1CA

Circular conductor terminal for CuAl cable, front terminal for main circuit connection							
	Neutral left	630	3WL1006-20014-0000		1	1 unit	1CA
		800	3WL1008-20014-0000		1	1 unit	1CA
		1000	3WL1010-20014-0000		1	1 unit	1CA
		1250	3WL1012-20014-0000		1	1 unit	1CA
	Neutral right	630	3WL1006-20024-0000		1	1 unit	1CA
		800	3WL1008-20024-0000		1	1 unit	1CA
		1000	3WL1010-20024-0000		1	1 unit	1CA
		1250	3WL1012-20024-0000		1	1 unit	1CA

Front connection bars, extended							
	Neutral left	630	3WL1006-20015-0000		1	1 unit	1CA
		800	3WL1008-20015-0000		1	1 unit	1CA
		1000	3WL1010-20015-0000		1	1 unit	1CA
		1250	3WL1012-20015-0000		1	1 unit	1CA
	Neutral right	630	3WL1006-20025-0000		1	1 unit	1CA
		800	3WL1008-20025-0000		1	1 unit	1CA
		1000	3WL1010-20025-0000		1	1 unit	1CA
		1250	3WL1012-20025-0000		1	1 unit	1CA

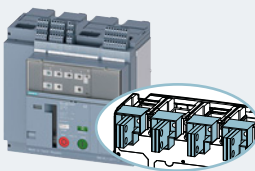
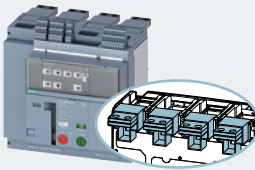
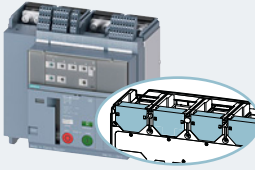
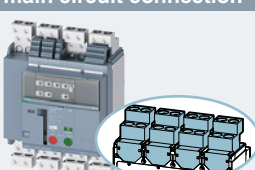
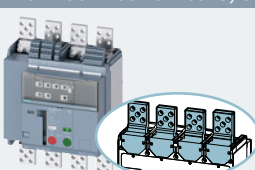
Versions		Additional price	
Communications interface and metering function are not possible for ETU3xx			
with ETU320 (LI)	A B	✓	
with ETU350 (LSI)	A C	✓	
with ETU360 (LSIG)	A D	✓	
ETU6xx - Expandable with communications interface and metering function			
with ETU650 (LSI)	E	✓	
with ETU660 (LSIG)	F	✓	
	With display, without communications interface, without metering function	A	None
	With display, with communications interface, without metering function	B	✓
	With display, with communications interface, with Basic metering function (voltage tap at bottom)	C	✓
	With display, with communications interface, with Basic metering function (voltage tap at top)	D	✓
	With display, with communications interface, with Advanced metering function (voltage tap at bottom)	E	✓
	With display, with communications interface, with Advanced metering function (voltage tap at top)	F	✓

Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

4-pole, fixed breaker versions

		Max. rated circuit breaker current $I_{n \max}$	SD	I_{cu} 66 kA at 440 V, standard breaking capacity S	S	PU (UNIT, SET, M)	PS	PG
		A	d	Article No. www.siemens.com/product?ArticleNo.	Basic price per PU			
Rear vertical connection								
	Neutral left	630		3WL1006-3□□11-□□□□		1	1 unit	1CA
		800		3WL1008-3□□11-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□11-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□11-□□□□		1	1 unit	1CA
Neutral right	630		3WL1006-3□□21-□□□□		1	1 unit	1CA	
	800		3WL1008-3□□21-□□□□		1	1 unit	1CA	
	1000		3WL1010-3□□21-□□□□		1	1 unit	1CA	
	1250		3WL1012-3□□21-□□□□		1	1 unit	1CA	
Rear horizontal connection								
	Neutral left	630		3WL1006-3□□12-□□□□		1	1 unit	1CA
		800		3WL1008-3□□12-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□12-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□12-□□□□		1	1 unit	1CA
Neutral right	630		3WL1006-3□□22-□□□□		1	1 unit	1CA	
	800		3WL1008-3□□22-□□□□		1	1 unit	1CA	
	1000		3WL1010-3□□22-□□□□		1	1 unit	1CA	
	1250		3WL1012-3□□22-□□□□		1	1 unit	1CA	
Front terminal for main circuit connection								
	Neutral left	630		3WL1006-3□□13-□□□□		1	1 unit	1CA
		800		3WL1008-3□□13-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□13-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□13-□□□□		1	1 unit	1CA
Neutral right	630		3WL1006-3□□23-□□□□		1	1 unit	1CA	
	800		3WL1008-3□□23-□□□□		1	1 unit	1CA	
	1000		3WL1010-3□□23-□□□□		1	1 unit	1CA	
	1250		3WL1012-3□□23-□□□□		1	1 unit	1CA	
Circular conductor terminal for CuAl cable, front terminal for main circuit connection								
	Neutral left	630		3WL1006-3□□14-□□□□		1	1 unit	1CA
		800		3WL1008-3□□14-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□14-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□14-□□□□		1	1 unit	1CA
Neutral right	630		3WL1006-3□□24-□□□□		1	1 unit	1CA	
	800		3WL1008-3□□24-□□□□		1	1 unit	1CA	
	1000		3WL1010-3□□24-□□□□		1	1 unit	1CA	
	1250		3WL1012-3□□24-□□□□		1	1 unit	1CA	
Front connection bars, extended								
	Neutral left	630		3WL1006-3□□15-□□□□		1	1 unit	1CA
		800		3WL1008-3□□15-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□15-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□15-□□□□		1	1 unit	1CA
Neutral right	630		3WL1006-3□□25-□□□□		1	1 unit	1CA	
	800		3WL1008-3□□25-□□□□		1	1 unit	1CA	
	1000		3WL1010-3□□25-□□□□		1	1 unit	1CA	
	1250		3WL1012-3□□25-□□□□		1	1 unit	1CA	
Versions								
Communications interface and metering function are not possible for ETU3xx								
with ETU320 (LI)			A B		✓			
with ETU350 (LSI)			A C		✓			
with ETU360 (LSIG)			A D		✓			
ETU6xx - Expandable with communications interface and metering function								
with ETU650 (LSI)			E		✓			
with ETU660 (LSIG)			F		✓			
With display, without communications interface, without metering function			A		None			
With display, with communications interface, without metering function			B		✓			
With display, with communications interface, with Basic metering function (voltage tap at bottom)			C		✓			
With display, with communications interface, with Basic metering function (voltage tap at top)			D		✓			
With display, with communications interface, with Advanced metering function (voltage tap at bottom)			E		✓			
With display, with communications interface, with Advanced metering function (voltage tap at top)			F		✓			

Air Circuit Breakers


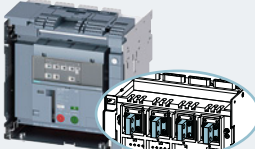
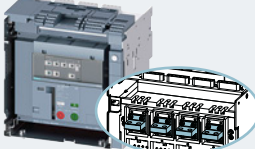
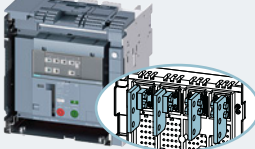
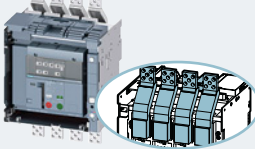
3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

4-pole, withdrawable breaker versions

1

Selection and ordering data

		Max. rated circuit breaker current $I_{n \text{ max.}}$	SD	I_{cu} 42 kA at 440 V, BASIC breaking capacity B	B	PU (UNIT, SET, M)	PS	PG
		A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU			
Withdrawable breaker version without guide frame								
	Neutral left	630		3WL1006-1□□40-□□□□		1	1 unit	1CA
		800		3WL1008-1□□40-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□40-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□40-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-1□□50-□□□□		1	1 unit	1CA
		800		3WL1008-1□□50-□□□□		1	1 unit	1CA
1000			3WL1010-1□□50-□□□□		1	1 unit	1CA	
1250			3WL1012-1□□50-□□□□		1	1 unit	1CA	
With guide frames, rear vertical connection								
	Neutral left	630		3WL1006-1□□41-□□□□		1	1 unit	1CA
		800		3WL1008-1□□41-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□41-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□41-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-1□□51-□□□□		1	1 unit	1CA
		800		3WL1008-1□□51-□□□□		1	1 unit	1CA
1000			3WL1010-1□□51-□□□□		1	1 unit	1CA	
1250			3WL1012-1□□51-□□□□		1	1 unit	1CA	
With guide frames, rear horizontal connection								
	Neutral left	630		3WL1006-1□□42-□□□□		1	1 unit	1CA
		800		3WL1008-1□□42-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□42-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□42-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-1□□52-□□□□		1	1 unit	1CA
		800		3WL1008-1□□52-□□□□		1	1 unit	1CA
1000			3WL1010-1□□52-□□□□		1	1 unit	1CA	
1250			3WL1012-1□□52-□□□□		1	1 unit	1CA	
With guide frame, circular conductor terminals for CuAl cable shoe, rear terminal for main circuit connection								
	Neutral left	630		3WL1006-1□□44-□□□□		1	1 unit	1CA
		800		3WL1008-1□□44-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□44-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□44-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-1□□54-□□□□		1	1 unit	1CA
		800		3WL1008-1□□54-□□□□		1	1 unit	1CA
1000			3WL1010-1□□54-□□□□		1	1 unit	1CA	
1250			3WL1012-1□□54-□□□□		1	1 unit	1CA	
With guide frame, front access, extended terminal for main circuit connection								
	Neutral left	630		3WL1006-1□□45-□□□□		1	1 unit	1CA
		800		3WL1008-1□□45-□□□□		1	1 unit	1CA
		1000		3WL1010-1□□45-□□□□		1	1 unit	1CA
		1250		3WL1012-1□□45-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-1□□55-□□□□		1	1 unit	1CA
		800		3WL1008-1□□55-□□□□		1	1 unit	1CA
1000			3WL1010-1□□55-□□□□		1	1 unit	1CA	
1250			3WL1012-1□□55-□□□□		1	1 unit	1CA	

Versions


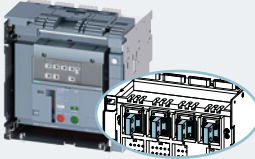
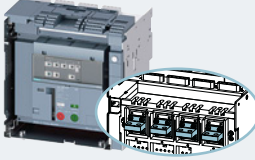
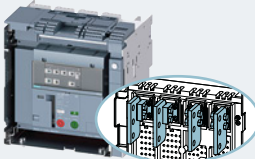
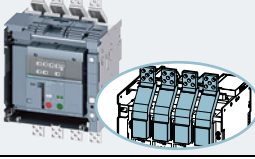
			Additional price
Communications interface and metering function are not possible for ETU3xx			
with ETU320 (LI)		A B	✓
with ETU350 (LSI)		A C	✓
with ETU360 (LSIG)		A D	✓
ETU6xx - Expandable with communications interface and metering function			
with ETU650 (LSI)		E	✓
with ETU660 (LSIG)		F	✓
	With display, without communications interface, without metering function	A	None
	With display, with communications interface, without metering function	B	✓
	With display, with communications interface, with Basic metering function (voltage tap at bottom)	C	✓
	With display, with communications interface, with Basic metering function (voltage tap at top)	D	✓
	With display, with communications interface, with Advanced metering function (voltage tap at bottom)	E	✓
	With display, with communications interface, with Advanced metering function (voltage tap at top)	F	✓

Minimum order quantity (PS) or a multiple thereof can be ordered.

Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

4-pole, withdrawable breaker versions

		Max. rated circuit breaker current $I_{n \text{ max.}}$	SD	$I_{cu} 55 \text{ kA at 440 V, ECO breaking capacity N}$ N	Basic price per PU	PU (UNIT, SET, M)	PS	PG
		A	d	Article No. www.siemens.com/product?Article No.				
Withdrawable breaker version without guide frame								
	Neutral left	630		3WL1006-2□□40-□□□□		1	1 unit	1CA
		800		3WL1008-2□□40-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□40-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□40-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-2□□50-□□□□		1	1 unit	1CA
		800		3WL1008-2□□50-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□50-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□50-□□□□		1	1 unit	1CA
With guide frames, rear vertical connection								
	Neutral left	630		3WL1006-2□□41-□□□□		1	1 unit	1CA
		800		3WL1008-2□□41-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□41-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□41-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-2□□51-□□□□		1	1 unit	1CA
		800		3WL1008-2□□51-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□51-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□51-□□□□		1	1 unit	1CA
With guide frames, rear horizontal connection								
	Neutral left	630		3WL1006-2□□42-□□□□		1	1 unit	1CA
		800		3WL1008-2□□42-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□42-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□42-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-2□□52-□□□□		1	1 unit	1CA
		800		3WL1008-2□□52-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□52-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□52-□□□□		1	1 unit	1CA
With guide frame, circular conductor terminals for CuAl cable shoe, rear terminal for main circuit connection								
	Neutral left	630		3WL1006-2□□44-□□□□		1	1 unit	1CA
		800		3WL1008-2□□44-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□44-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□44-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-2□□54-□□□□		1	1 unit	1CA
		800		3WL1008-2□□54-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□54-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□54-□□□□		1	1 unit	1CA
With guide frame, front access, extended terminal for main circuit connection								
	Neutral left	630		3WL1006-2□□45-□□□□		1	1 unit	1CA
		800		3WL1008-2□□45-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□45-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□45-□□□□		1	1 unit	1CA
	Neutral right	630		3WL1006-2□□55-□□□□		1	1 unit	1CA
		800		3WL1008-2□□55-□□□□		1	1 unit	1CA
		1000		3WL1010-2□□55-□□□□		1	1 unit	1CA
		1250		3WL1012-2□□55-□□□□		1	1 unit	1CA
Versions								
Communications interface and metering function are not possible for ETU3xx								
with ETU320 (LI)			A B					✓
with ETU350 (LSI)			A C					✓
with ETU360 (LSIG)			A D					✓
ETU6xx - Expandable with communications interface and metering function								
with ETU650 (LSI)			E					✓
with ETU660 (LSIG)			F					✓
With display, without communications interface, without metering function			A					None
With display, with communications interface, without metering function			B					✓
With display, with communications interface, with Basic metering function (voltage tap at bottom)			C					✓
With display, with communications interface, with Basic metering function (voltage tap at top)			D					✓
With display, with communications interface, with Advanced metering function (voltage tap at bottom)			E					✓
With display, with communications interface, with Advanced metering function (voltage tap at top)			F					✓


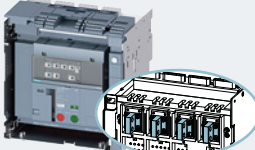
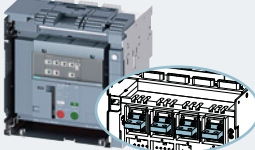
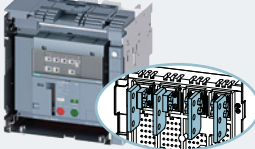
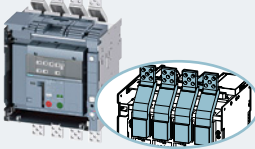
Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

4-pole, withdrawable breaker versions

1

		Max. rated circuit breaker current I_n max.	SD	I_{cu} 66 kA at 440 V, standard breaking capacity S	S	PU (UNIT, SET, M)	PS	PG
		A	d	Article No. www.siemens.com/product?Article No.	Basic price per PU			
Withdrawable breaker version without guide frame								
	Neutral left	630		3WL1006-3□□40-□□□□		1	1 unit	1CA
		800		3WL1008-3□□40-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□40-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□40-□□□□		1	1 unit	1CA
Neutral right	630		3WL1006-3□□50-□□□□		1	1 unit	1CA	
	800		3WL1008-3□□50-□□□□		1	1 unit	1CA	
	1000		3WL1010-3□□50-□□□□		1	1 unit	1CA	
	1250		3WL1012-3□□50-□□□□		1	1 unit	1CA	
With guide frames, rear vertical connection								
	Neutral left	630		3WL1006-3□□41-□□□□		1	1 unit	1CA
		800		3WL1008-3□□41-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□41-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□41-□□□□		1	1 unit	1CA
Neutral right	630		3WL1006-3□□51-□□□□		1	1 unit	1CA	
	800		3WL1008-3□□51-□□□□		1	1 unit	1CA	
	1000		3WL1010-3□□51-□□□□		1	1 unit	1CA	
	1250		3WL1012-3□□51-□□□□		1	1 unit	1CA	
With guide frames, rear horizontal connection								
	Neutral left	630		3WL1006-3□□42-□□□□		1	1 unit	1CA
		800		3WL1008-3□□42-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□42-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□42-□□□□		1	1 unit	1CA
Neutral right	630		3WL1006-3□□52-□□□□		1	1 unit	1CA	
	800		3WL1008-3□□52-□□□□		1	1 unit	1CA	
	1000		3WL1010-3□□52-□□□□		1	1 unit	1CA	
	1250		3WL1012-3□□52-□□□□		1	1 unit	1CA	
With guide frame, circular conductor terminals for CuAl cable shoe, rear terminal for main circuit connection								
	Neutral left	630		3WL1006-3□□44-□□□□		1	1 unit	1CA
		800		3WL1008-3□□44-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□44-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□44-□□□□		1	1 unit	1CA
Neutral right	630		3WL1006-3□□54-□□□□		1	1 unit	1CA	
	800		3WL1008-3□□54-□□□□		1	1 unit	1CA	
	1000		3WL1010-3□□54-□□□□		1	1 unit	1CA	
	1250		3WL1012-3□□54-□□□□		1	1 unit	1CA	
With guide frame, front access, extended terminal for main circuit connection								
	Neutral left	630		3WL1006-3□□45-□□□□		1	1 unit	1CA
		800		3WL1008-3□□45-□□□□		1	1 unit	1CA
		1000		3WL1010-3□□45-□□□□		1	1 unit	1CA
		1250		3WL1012-3□□45-□□□□		1	1 unit	1CA
Neutral right	630		3WL1006-3□□55-□□□□		1	1 unit	1CA	
	800		3WL1008-3□□55-□□□□		1	1 unit	1CA	
	1000		3WL1010-3□□55-□□□□		1	1 unit	1CA	
	1250		3WL1012-3□□55-□□□□		1	1 unit	1CA	

Versions			Additional price
Communications interface and metering function are not possible for ETU3xx			
with ETU320 (LI)	A B		✓
with ETU350 (LSI)	A C		✓
with ETU360 (LSIG)	A D		✓
ETU6xx - Expandable with communications interface and metering function			
with ETU650 (LSI)	E		✓
with ETU660 (LSIG)	F		✓
With display, without communications interface, without metering function	A		None
With display, with communications interface, without metering function	B		✓
With display, with communications interface, with Basic metering function (voltage tap at bottom)	C		✓
With display, with communications interface, with Basic metering function (voltage tap at top)	D		✓
With display, with communications interface, with Advanced metering function (voltage tap at bottom)	E		✓
With display, with communications interface, with Advanced metering function (voltage tap at top)	F		✓

Minimum order quantity (PS) or a multiple thereof can be ordered.

Air Circuit Breakers

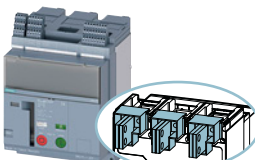
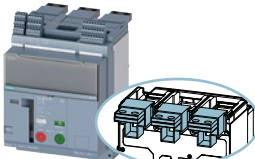
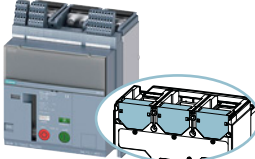
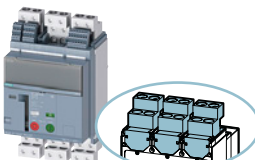
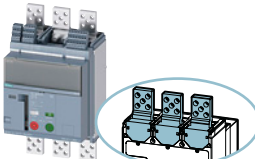
3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

Fixed non-automatic air circuit breakers

1

Selection and ordering data

3-pole	Max. rated circuit breaker current I_n max.	SD	I_{cc} 42 kA at 440 V, Class N N	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Rear vertical connection						
	630 800 1000 1250		3WL1006-2AA01-□□□□ 3WL1008-2AA01-□□□□ 3WL1010-2AA01-□□□□ 3WL1012-2AA01-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Rear horizontal connection						
	630 800 1000 1250		3WL1006-2AA02-□□□□ 3WL1008-2AA02-□□□□ 3WL1010-2AA02-□□□□ 3WL1012-2AA02-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front terminal for main circuit connection						
	630 800 1000 1250		3WL1006-2AA03-□□□□ 3WL1008-2AA03-□□□□ 3WL1010-2AA03-□□□□ 3WL1012-2AA03-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Circular conductor terminal for CuAl cable, front terminal for main circuit connection						
	630 800 1000 1250		3WL1006-2AA04-□□□□ 3WL1008-2AA04-□□□□ 3WL1010-2AA04-□□□□ 3WL1012-2AA04-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front connection bars, extended						
	630 800 1000 1250		3WL1006-2AA05-□□□□ 3WL1008-2AA05-□□□□ 3WL1010-2AA05-□□□□ 3WL1012-2AA05-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA

Note

If the switch disconnector is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_e) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.

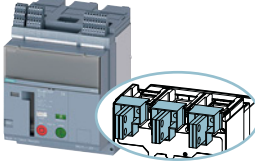
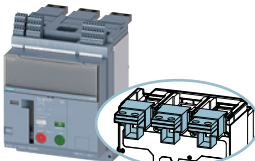

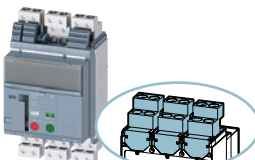
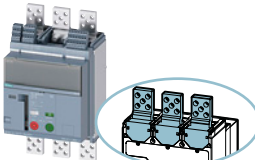
Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

Fixed non-automatic air circuit breakers

1

3-pole	Max. rated circuit breaker current I_n max.	SD	I_{cc} 50 kA at 440 V, Class S S	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Rear vertical connection						
	630 800 1000 1250		3WL1006-3AA01-□□□□ 3WL1008-3AA01-□□□□ 3WL1010-3AA01-□□□□ 3WL1012-3AA01-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Rear horizontal connection						
	630 800 1000 1250		3WL1006-3AA02-□□□□ 3WL1008-3AA02-□□□□ 3WL1010-3AA02-□□□□ 3WL1012-3AA02-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front terminal for main circuit connection						
	630 800 1000 1250		3WL1006-3AA03-□□□□ 3WL1008-3AA03-□□□□ 3WL1010-3AA03-□□□□ 3WL1012-3AA03-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Circular conductor terminal for CuAl cable, front terminal for main circuit connection						
	630 800 1000 1250		3WL1006-3AA04-□□□□ 3WL1008-3AA04-□□□□ 3WL1010-3AA04-□□□□ 3WL1012-3AA04-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front connection bars, extended						
	630 800 1000 1250		3WL1006-3AA05-□□□□ 3WL1008-3AA05-□□□□ 3WL1010-3AA05-□□□□ 3WL1012-3AA05-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA

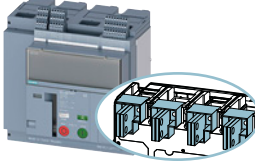
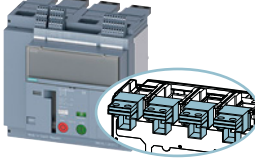
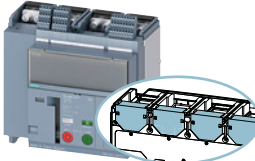
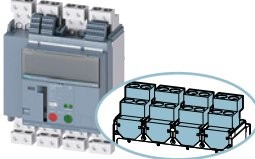
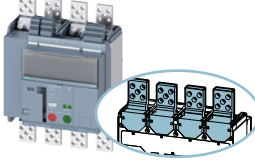
Note

If the switch disconnecter is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_e) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.

Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Fixed non-automatic air circuit breakers

4-pole	Max. rated circuit breaker current I_n max.	SD	I_{cc} 42 kA at 440 V, Class N	(N)	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/product?Article.No.	Basic price per PU			
Rear vertical connection	630 800 1000 1250		N left	N right			
			3WL1006-2AA11-□□□□	3WL1006-2AA21-□□□□	1	1 unit	1CA
			3WL1008-2AA11-□□□□	3WL1008-2AA21-□□□□	1	1 unit	1CA
			3WL1010-2AA11-□□□□	3WL1010-2AA21-□□□□	1	1 unit	1CA
			3WL1012-2AA11-□□□□	3WL1012-2AA21-□□□□	1	1 unit	1CA
Rear horizontal connection	630 800 1000 1250		3WL1006-2AA12-□□□□	3WL1006-2AA22-□□□□	1	1 unit	1CA
			3WL1008-2AA12-□□□□	3WL1008-2AA22-□□□□	1	1 unit	1CA
			3WL1010-2AA12-□□□□	3WL1010-2AA22-□□□□	1	1 unit	1CA
			3WL1012-2AA12-□□□□	3WL1012-2AA22-□□□□	1	1 unit	1CA
Front terminal for main circuit connection	630 800 1000 1250		3WL1006-2AA13-□□□□	3WL1006-2AA23-□□□□	1	1 unit	1CA
			3WL1008-2AA13-□□□□	3WL1008-2AA23-□□□□	1	1 unit	1CA
			3WL1010-2AA13-□□□□	3WL1010-2AA23-□□□□	1	1 unit	1CA
			3WL1012-2AA13-□□□□	3WL1012-2AA23-□□□□	1	1 unit	1CA
Circular conductor terminal for CuAl cable, front terminal for main circuit connection	630 800 1000 1250		3WL1006-2AA14-□□□□	3WL1006-2AA24-□□□□	1	1 unit	1CA
			3WL1008-2AA14-□□□□	3WL1008-2AA24-□□□□	1	1 unit	1CA
			3WL1010-2AA14-□□□□	3WL1010-2AA24-□□□□	1	1 unit	1CA
			3WL1012-2AA14-□□□□	3WL1012-2AA24-□□□□	1	1 unit	1CA
Front connection bars, extended	630 800 1000 1250		3WL1006-2AA15-□□□□	3WL1006-2AA25-□□□□	1	1 unit	1CA
			3WL1008-2AA15-□□□□	3WL1008-2AA25-□□□□	1	1 unit	1CA
			3WL1010-2AA15-□□□□	3WL1010-2AA25-□□□□	1	1 unit	1CA
			3WL1012-2AA15-□□□□	3WL1012-2AA25-□□□□	1	1 unit	1CA

Note

If the switch disconnector is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_e) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.

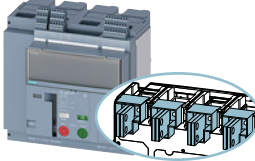
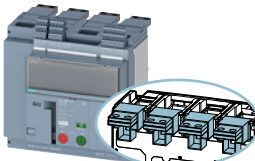
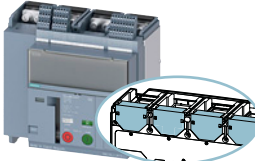
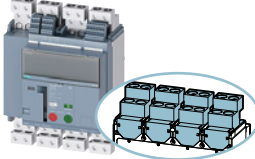
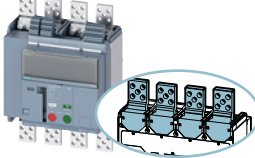
Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

Fixed non-automatic air circuit breakers

1

4-pole	Max. rated circuit breaker current I_n max.	SD	I_{cc} 50 kA at 440 V, Class S	S	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU			
Rear vertical connection			N left	N right			
	630 800 1000 1250		3WL1006-3AA11-□□□□ 3WL1008-3AA11-□□□□ 3WL1010-3AA11-□□□□ 3WL1012-3AA11-□□□□	3WL1006-3AA21-□□□□ 3WL1008-3AA21-□□□□ 3WL1010-3AA21-□□□□ 3WL1012-3AA21-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Rear horizontal connection							
	630 800 1000 1250		3WL1006-3AA12-□□□□ 3WL1008-3AA12-□□□□ 3WL1010-3AA12-□□□□ 3WL1012-3AA12-□□□□	3WL1006-3AA22-□□□□ 3WL1008-3AA22-□□□□ 3WL1010-3AA22-□□□□ 3WL1012-3AA22-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front terminal for main circuit connection							
	630 800 1000 1250		3WL1006-3AA13-□□□□ 3WL1008-3AA13-□□□□ 3WL1010-3AA13-□□□□ 3WL1012-3AA13-□□□□	3WL1006-3AA23-□□□□ 3WL1008-3AA23-□□□□ 3WL1010-3AA23-□□□□ 3WL1012-3AA23-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Circular conductor terminal for CuAl cable, front terminal for main circuit connection							
	630 800 1000 1250		3WL1006-3AA14-□□□□ 3WL1008-3AA14-□□□□ 3WL1010-3AA14-□□□□ 3WL1012-3AA14-□□□□	3WL1006-3AA24-□□□□ 3WL1008-3AA24-□□□□ 3WL1010-3AA24-□□□□ 3WL1012-3AA24-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
Front connection bars, extended							
	630 800 1000 1250		3WL1006-3AA15-□□□□ 3WL1008-3AA15-□□□□ 3WL1010-3AA15-□□□□ 3WL1012-3AA15-□□□□	3WL1006-3AA25-□□□□ 3WL1008-3AA25-□□□□ 3WL1010-3AA25-□□□□ 3WL1012-3AA25-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA

Note

If the switch disconnector is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_e) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.


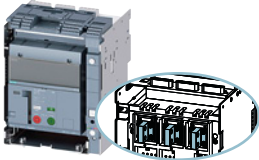
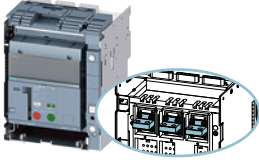
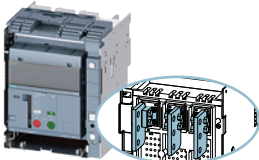
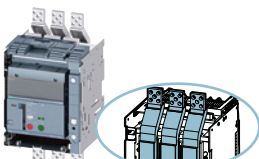
Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

Withdrawable non-automatic air circuit breakers

Selection and ordering data

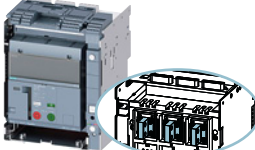
3-pole	Max. rated circuit breaker current $I_{n \text{ max.}}$	SD	I_{cc} 42 kA at 440 V, Class N N	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Withdrawable breaker version without guide frame						
	630		3WL1006-2AA30-□□□□	1	1 unit	1CA
	800		3WL1008-2AA30-□□□□	1	1 unit	1CA
	1000		3WL1010-2AA30-□□□□	1	1 unit	1CA
	1250		3WL1012-2AA30-□□□□	1	1 unit	1CA
With guide frames, rear vertical connection						
	630		3WL1006-2AA31-□□□□	1	1 unit	1CA
	800		3WL1008-2AA31-□□□□	1	1 unit	1CA
	1000		3WL1010-2AA31-□□□□	1	1 unit	1CA
	1250		3WL1012-2AA31-□□□□	1	1 unit	1CA
With guide frames, rear horizontal connection						
	630		3WL1006-2AA32-□□□□	1	1 unit	1CA
	800		3WL1008-2AA32-□□□□	1	1 unit	1CA
	1000		3WL1010-2AA32-□□□□	1	1 unit	1CA
	1250		3WL1012-2AA32-□□□□	1	1 unit	1CA
With guide frame, circular conductor terminals for CuAl cable shoe, rear terminal for main circuit connection						
	630		3WL1006-2AA34-□□□□	1	1 unit	1CA
	800		3WL1008-2AA34-□□□□	1	1 unit	1CA
	1000		3WL1010-2AA34-□□□□	1	1 unit	1CA
	1250		3WL1012-2AA34-□□□□	1	1 unit	1CA
With guide frame, front access, extended terminal for main circuit connection						
	630		3WL1006-2AA35-□□□□	1	1 unit	1CA
	800		3WL1008-2AA35-□□□□	1	1 unit	1CA
	1000		3WL1010-2AA35-□□□□	1	1 unit	1CA
	1250		3WL1012-2AA35-□□□□	1	1 unit	1CA

Note

If the switch disconnector is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_e) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.

Withdrawable non-automatic air circuit breakers

1

3-pole	Max. rated circuit breaker current $I_{n \text{ max.}}$	SD	I_{cc} 50 kA at 440 V, Class S S	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Withdrawable breaker version without guide frame						
	630 800 1000 1250		3WL1006-3AA30-□□□□ 3WL1008-3AA30-□□□□ 3WL1010-3AA30-□□□□ 3WL1012-3AA30-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
With guide frames, rear vertical connection						
	630 800 1000 1250		3WL1006-3AA31-□□□□ 3WL1008-3AA31-□□□□ 3WL1010-3AA31-□□□□ 3WL1012-3AA31-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
With guide frames, rear horizontal connection						
	630 800 1000 1250		3WL1006-3AA32-□□□□ 3WL1008-3AA32-□□□□ 3WL1010-3AA32-□□□□ 3WL1012-3AA32-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
With guide frame, circular conductor terminals for CuAl cable shoe, rear terminal for main circuit connection						
	630 800 1000 1250		3WL1006-3AA34-□□□□ 3WL1008-3AA34-□□□□ 3WL1010-3AA34-□□□□ 3WL1012-3AA34-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
With guide frame, front access, extended terminal for main circuit connection						
	630 800 1000 1250		3WL1006-3AA35-□□□□ 3WL1008-3AA35-□□□□ 3WL1010-3AA35-□□□□ 3WL1012-3AA35-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA


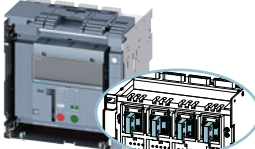
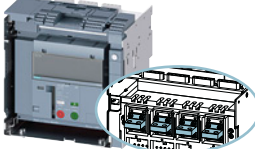
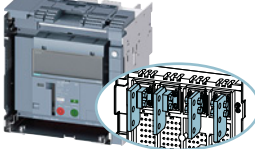
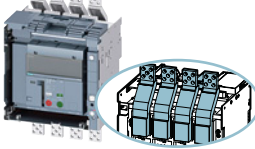
Note

If the switch disconnecter is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_e) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.

Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Withdrawable non-automatic air circuit breakers

4-pole	Max. rated circuit breaker current I_n max.	SD	I_{cc} 42 kA at 440 V, Class N	(N)	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article.No.	Basic price per PU			
Withdrawable breaker version without guide frame			N left	N right			
	630 800 1000 1250		3WL1006-2AA40-□□□□ 3WL1008-2AA40-□□□□ 3WL1010-2AA40-□□□□ 3WL1012-2AA40-□□□□	3WL1006-2AA50-□□□□ 3WL1008-2AA50-□□□□ 3WL1010-2AA50-□□□□ 3WL1012-2AA50-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
With guide frames, rear vertical connection							
	630 800 1000 1250		3WL1006-2AA41-□□□□ 3WL1008-2AA41-□□□□ 3WL1010-2AA41-□□□□ 3WL1012-2AA41-□□□□	3WL1006-2AA51-□□□□ 3WL1008-2AA51-□□□□ 3WL1010-2AA51-□□□□ 3WL1012-2AA51-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
With guide frames, rear horizontal connection							
	630 800 1000 1250		3WL1006-2AA42-□□□□ 3WL1008-2AA42-□□□□ 3WL1010-2AA42-□□□□ 3WL1012-2AA42-□□□□	3WL1006-2AA52-□□□□ 3WL1008-2AA52-□□□□ 3WL1010-2AA52-□□□□ 3WL1012-2AA52-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
With guide frame, circular conductor terminal for CuAl cable shoe, rear terminal for main circuit connection							
	630 800 1000 1250		3WL1006-2AA44-□□□□ 3WL1008-2AA44-□□□□ 3WL1010-2AA44-□□□□ 3WL1012-2AA44-□□□□	3WL1006-2AA54-□□□□ 3WL1008-2AA54-□□□□ 3WL1010-2AA54-□□□□ 3WL1012-2AA54-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA
With guide frame, front access, extended terminal for main circuit connection							
	630 800 1000 1250		3WL1006-2AA45-□□□□ 3WL1008-2AA45-□□□□ 3WL1010-2AA45-□□□□ 3WL1012-2AA45-□□□□	3WL1006-2AA55-□□□□ 3WL1008-2AA55-□□□□ 3WL1010-2AA55-□□□□ 3WL1012-2AA55-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CA 1CA 1CA 1CA

Note

If the switch disconnecter is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_g) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.


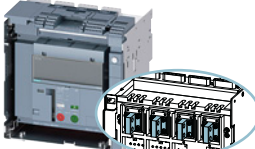
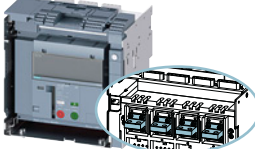
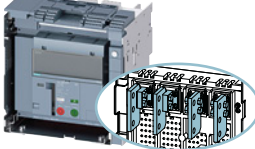
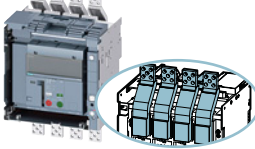
Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

Withdrawable non-automatic air circuit breakers

1

4-pole	Max. rated circuit breaker current I_n max.	SD	I_{cc} 50 kA at 440 V, Class S	S	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU			
Withdrawable breaker version without guide frame			N left	N right			
	630		3WL1006-3AA40-□□□□	3WL1006-3AA50-□□□□	1	1 unit	1CA
	800		3WL1008-3AA40-□□□□	3WL1008-3AA50-□□□□	1	1 unit	1CA
	1000		3WL1010-3AA40-□□□□	3WL1010-3AA50-□□□□	1	1 unit	1CA
	1250		3WL1012-3AA40-□□□□	3WL1012-3AA50-□□□□	1	1 unit	1CA
With guide frames, rear vertical connection			N left	N right			
	630		3WL1006-3AA41-□□□□	3WL1006-3AA51-□□□□	1	1 unit	1CA
	800		3WL1008-3AA41-□□□□	3WL1008-3AA51-□□□□	1	1 unit	1CA
	1000		3WL1010-3AA41-□□□□	3WL1010-3AA51-□□□□	1	1 unit	1CA
	1250		3WL1012-3AA41-□□□□	3WL1012-3AA51-□□□□	1	1 unit	1CA
With guide frame, rear horizontal connection			N left	N right			
	630		3WL1006-3AA42-□□□□	3WL1006-3AA52-□□□□	1	1 unit	1CA
	800		3WL1008-3AA42-□□□□	3WL1008-3AA52-□□□□	1	1 unit	1CA
	1000		3WL1010-3AA42-□□□□	3WL1010-3AA52-□□□□	1	1 unit	1CA
	1250		3WL1012-3AA42-□□□□	3WL1012-3AA52-□□□□	1	1 unit	1CA
With guide frame, circular conductor terminal piece for CuAl cable shoe, rear terminal for main circuit connection			N left	N right			
	630		3WL1006-3AA44-□□□□	3WL1006-3AA54-□□□□	1	1 unit	1CA
	800		3WL1008-3AA44-□□□□	3WL1008-3AA54-□□□□	1	1 unit	1CA
	1000		3WL1010-3AA44-□□□□	3WL1010-3AA54-□□□□	1	1 unit	1CA
	1250		3WL1012-3AA44-□□□□	3WL1012-3AA54-□□□□	1	1 unit	1CA
With guide frame, front access, extended terminal for main circuit connection			N left	N right			
	630		3WL1006-2AA45-□□□□	3WL1006-2AA55-□□□□	1	1 unit	1CA
	800		3WL1008-2AA45-□□□□	3WL1008-2AA55-□□□□	1	1 unit	1CA
	1000		3WL1010-2AA45-□□□□	3WL1010-2AA55-□□□□	1	1 unit	1CA
	1250		3WL1012-2AA45-□□□□	3WL1012-2AA55-□□□□	1	1 unit	1CA

Note

If the switch disconnector is additionally used with an external protection relay with a maximum delay time of 500 ms, it enables a breaking capacity at the maximum rated operational voltage (U_e) to be received that is as high as the value of the rated short-time current (I_{cw}) for one second.

Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Options

1

Overview

		Article No. supplement	3WL10... - - <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			Additional price
Operators						
Type	U_s V AC/DC					None
Manual operator (no spring charging motor)	--	0				✓
With spring charging motor	24-30	1				✓
Scope of supply: Spring charging motor and spring charged signaling switch.	48-60	2				✓
When using a spring charging motor, a closing coil (CC) and a shunt release (ST) are useful for enabling electrical ON/OFF switching.	110	3				✓
	230	4				✓
Closing coil, remote reset magnet						
Type	U_s V AC/DC					
Without closing coil	--	A				None
Closing coil (CC)	24	B				✓
Useful when using a spring charging motor.	30	C				✓
	48	D				✓
	60	E				✓
	110 ... 120	F				✓
	120 ... 127	G				✓
	220 ... 240	H				✓
	240 ... 250	J				✓
Closing coil (CC) together with remote reset magnet (RR):	24	K				✓
	110	L				✓
	220	M				✓
1st auxiliary release						
Type	U_s V AC/DC					
Without 1st auxiliary release	--	0				None
Shunt releases (ST)	24	1				✓
	30	2				✓
	48	3				✓
	60	4				✓
	110 ... 120	5				✓
	120 ... 127	6				✓
	220 ... 240	7				✓
	240 ... 250	8				✓
2nd auxiliary release: Undervoltage or 2nd shunt release						
Type	U_s V AC/DC					
Without 2nd auxiliary release	--	A				None
Undervoltage release (UVR), instantaneous	24	B				✓
	30	C				✓
	48	D				✓
	60	E				✓
	110 ... 120	F				✓
	120 ... 127	G				✓
	220 ... 240	H				✓
	240 ... 250	J				✓
	380 ... 400	K				✓
	415 ... 440	L				✓
Undervoltage release (UVR), delayed with external time-delay device	24 ... 30	M				✓
	110 ... 127	N				✓
	220 ... 250	P				✓
2nd shunt release (ST2)	24	Q				✓
	30	R				✓
	48	S				✓
	60	T				✓
	110 ... 120	U				✓
	120 ... 127	V				✓
	220 ... 240	W				✓
	240 ... 250	X				✓

Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

Options

1

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL.....-.....-.....-Z □ □ □ +...+...	Additional price
Rating plugs				
Type/conditions	For ETU	Rated current I_n		
Only one module is possible per circuit breaker. As standard, the Electronic Trip Units are equipped with a rating plug for setting ($< I_n, \max$) the rated current I_n , to the maximum rated nominal current (I_n, \max) of the breaker. The rated current of the selected rating plug must be equal to or less than I_n, \max .				
Rating plugs for setting ($< I_n, \max$) the rated current I_n .	All	400	B 0 4	--
		630	B 0 6	--
		800	B 0 8	--
		1000	B 1 0	--
Rating plug with overload protection L = OFF and for setting ($< I_n, \max$) the rated current I_n .	All	400	L 0 4	--
		630	L 0 6	--
		800	L 0 8	--
		1000	L 1 0	--
		1250	L 1 2	--
Rating plug Rc for ETU660, for enabling the residual current protection function and setting ($< I_n, \max$) the rated current I_n . The residual current function is only possible with the metering function MF Advanced.	for ETU660 only	400	G 0 4	--
		630	G 0 6	--
		800	G 0 8	--
		1250	G 1 2	--
CB bus modules - communication modules				
Conditions	Communication module	Protocol		
Contain the respective communication module.	COM040	PROFIBUS	F 0 2	✓
	COM041	PROFINET	F 0 3	✓
Up to 2 different communication modules can be used at the same time; when using a digital I/O module IOM040 (K56), only 1 communication module can be used.	COM043	Modbus TCP	F 1 1	✓
	COM042	Modbus RTU	F 1 2	✓
	COM044	IEC 61850	F 1 3	
Can only be used with ETU 6-series				
CB bus modules - I/O modules internal				
Conditions	Type	Version		
I/O module for 24 V DC with 2 inputs and 2 outputs with a maximum switching current per contact of 2 A at 24 V DC. When using a digital I/O module IOM040 (K56), only 1 communication module can be used. Can only be used with ETU 6-series	Digital I/O module IOM040	2 inputs and 2 outputs	K 5 6	✓
Breaker Connect module				
Conditions	Type	Version		
When a circuit breaker with a communication interface is ordered, a Breaker Connect module for external 24 V DC power supply of the electronic components is also supplied ready installed. By means of this Z option, the Breaker Connect module for 24 V DC is replaced by a Breaker Connect module for 110-240 V AC/DC.	Breaker Connect modules	110 - 240 V AC/DC	F 2 6	--

Air Circuit Breakers

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Size 0 for AC up to 1250 A

Options

Add '-Z' to the complete Article No.
and indicate the appropriate order code(s).

3WL.....-.....-Z

Additional price

□□□ +...+...

Auxiliary / signaling switches for 24 V DC digital signals for extremely low currents				
Conditions	Type	Version		
Auxiliary and signaling switches for currents > 100 mA and up to 400 V AC are installed as standard. For currents < 100 mA for PLC connections, these auxiliary and signaling switches can be replaced. The auxiliary/signaling switches for 24 V DC digital signals are designed for a - smallest load above 1 mA @ 5 V DC and a - maximum breaking capacity of 100 mA @ 24 V DC.	Ready-to-close signaling	1CO digital	K 5 0	✓
	Auxiliary current switch ON / OFF AUX	4CO digital	K 5 1	✓
	Auxiliary current switch ON / OFF AUX	2CO standard + 2CO digital	K 5 2	✓
	Tripped signaling switch S24	1CO digital	K 5 3	✓
	Spring charged signaling switch Only in combination with a spring charging motor.	1CO digital	K 5 4	✓
	Position signaling switch PSS only with withdrawable version ¹⁾	6CO; 2x inserted, 2x test and 2x retracted	K 5 5	✓
Mechanical operating cycles counter				
Conditions	Type	Version		
Mechanical operating cycles counter only possible in combination with a spring charging motor.	Mechanical operating cycles counter	5 digits	C 0 1	✓
Door sealing frame IP30				
Conditions	Type	Version		
For fixed and withdrawable breaker versions. Can only be used up to IP3X degree of protection. For IP4X and higher, you must order the protective cover IP54 3VW9011-0AP03 or 3VW9011-0AP13.	Door sealing frame	IP3x	T 3 0	✓
Locking devices (for fixed and withdrawable breaker versions)				
Conditions	Version	Version		
Locking devices in OFF position to prevent unauthorized activation, in the operator panel (safe OFF), fulfills the conditions for a supply disconnecting (isolating) device acc. to EN 60204-1	Cylinder lock	Ronis	S 0 8	✓
	Padlock 4 mm	Plastic for up to 3 locks	S 2 2	✓
	Padlock 7 mm	Metal for no more than 1 lock	S 2 3	✓
	Padlock 8 mm	Metal for no more than 2 locks	S 0 7	✓
Padlockable protective cover ON/OFF on the operator panel	Padlock 4 mm	Plastic for up to 3 locks	S 4 2	✓
	Padlock 7 mm	Metal for no more than 1 lock	S 4 3	✓
	Padlock 8 mm	Metal for no more than 2 locks	S 4 4	✓
Protective cover ON/OFF to protect against unintended actuation on the operator panel, cannot be locked.	Protective cover		S 4 1	✓

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

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3WL.....-.....-Z □□□ +...+...	Additional price
Locking devices (for withdrawable breakers) ¹⁾				
Conditions	Version	Version		
Locking device against movement of the withdrawable circuit breaker; Safety lock for mounting on the circuit breaker	Cylinder lock	Ronis	R 7 8	✓
	Padlock 8 mm	For no more than 3 locks	R 6 5	✓
Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position, supplement to R78 and/or R65. Only possible when using R78 and/or R65.	Locking mechanism		R 7 9	✓
Mounting options: Modification of side panel of fixed circuit breaker for mechanical switch position transmission ^{1) 2)}				
Conditions	Version	Version		
Pre-installed mounting support standard (circuit breaker feet) for mounting the fixed breaker on the floor	Fixed breaker, floor fixation	Mounting support, standard	A 0 7	✓
Pre-installed extension kit, for mechanical switch position transmission on circuit breaker side panel; allows attachment of - Fixation of external auxiliary switches AUX 15CO (3VW9011-0AG15) - Locking device for control cabinet door, direct (for 3VW9011-0BB10) - Locking device for control cabinet door, Bowden cable (for 3VW9011-0BB16), - Mechanical interlocking to 3WL/3VA (for 3VW9011-0BB20)	Fixed breaker, floor fixation	Mounting support, extended ³⁾	S 5 6	✓
	Fixed breaker, rear panel fixation on mounting plate	Side panel extended	S 5 7	✓

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

²⁾ These functionalities can be applied directly to the frame of the withdrawable circuit breaker, without any modification of the side panel.

³⁾ Not possible in connection with or as an alternative to the standard mounting adapter (A07).

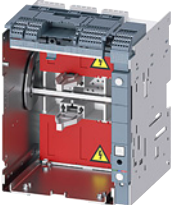
Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Accessories and spare parts

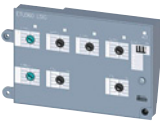



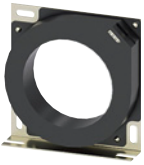

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Selection and ordering data

			SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			d					
Guide frames for ordering separately without circuit breakers¹⁾								
Description	No. of poles	Connection type						
	3-pole	Rear vertical		3VW8112-0AA01		1	1 unit	1CB
	3-pole	Rear horizontal		3VW8112-0AB01		1	1 unit	1CB
	3-pole	4 x 240 mm ² Cu/Al cable connection, for cable lug		3VW8112-0AD01		1	1 unit	1CB
	3-pole	Front connection bars, extended		3VW8112-0AE01		1	1 unit	1CB
	4-pole	Rear vertical		3VW8112-0BA01		1	1 unit	1CB
	4-pole	Rear horizontal		3VW8112-0BB01		1	1 unit	1CB
	4-pole	4 x 240 mm ² Cu/Al cable connection, for cable lug		3VW8112-0BD01		1	1 unit	1CB
	4-pole	Front connection bars, extended		3VW8112-0BE01		1	1 unit	1CB

¹⁾ All CB bus modules for communication COMO4x / IOM300 / Breaker Connect module, as well as COMPSS signaling switches are configured without terminals in the withdrawable breaker and defined there by means of Z options.

			3VW8...-...-...-Z	Additional price
Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> +...+...	
Locking devices (for guide frame)				
Description	Version	Version		
Locking device to prevent movement of the withdrawable circuit breaker	Cylinder lock	Ronis	R 7 8	✓
Safety lock for mounting on the circuit breaker	Padlock 8 mm	For no more than 3 locks	R 6 5	✓
Locking mechanisms to prevent movement of the withdrawable circuit breakers in disconnected position. Supplement to R78 and/or R65. Only possible when using R78 and/or R65.	Locking mechanism		R 7 9	✓
Auxiliary / signaling switches for 24 V DC digital signals for extremely low currents				
Conditions	Type	Version		
Auxiliary and signaling switches for currents > 100 mA and up to 400 V AC are installed as standard. For currents < 100 mA for PLC connections, these auxiliary and signaling switches can be modified. The auxiliary/signaling switches for 24 V DC digital signals are designed for a - smallest load above 1 mA @ 5 V DC and a - maximum breaking capacity of 100 mA @ 24 V DC.	Position signaling switch PSS 24V digital	6 CO; 2x connected, 2x test and 2x disconnected	K 5 5	✓

			SD Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
Electronic Trip Units (ETU)								
	Type	Protection function / version	Expansion for communications / metering function / enhanced protection functions possible					
	ETU320	LIN with rotary coding switches	No	3VW9011-5AA00	1	1 unit	1CB	
	ETU350	LSIN with rotary coding switches	No	3VW9012-5AA00	1	1 unit	1CB	
	ETU360	LSING with rotary coding switches	No	3VW9012-7AA00	1	1 unit	1CB	
	ETU650	LSIN with display	Yes	3VW9017-5AA00	1	1 unit	1CB	
	ETU660	LSING with display	Yes	3VW9017-7AA00	1	1 unit	1CB	
Metering function for ETU650 or ETU660								
	Description	Protection function / version						
	Metering function	MF Basic		3VW9011-0AT01	1	1 unit	1CB	
		MF Advanced		3VW9011-0AT04	1	1 unit	1CB	
	Set of cables for voltage tap for MF	For 4-pole circuit breakers with neutral right (positioned at top or bottom)			3VW9011-0AT08	1	1 unit	1CB
		For 3-pole circuit breakers; positioned at top			3VW9011-0AT72	1	1 unit	1CB
		For 3-pole circuit breakers; positioned at bottom			3VW9011-0AT73	1	1 unit	1CB
		For 4-pole circuit breakers; positioned at top; neutral left			3VW9011-0AT75	1	1 unit	1CB
		For 4-pole circuit breakers; positioned at bottom; neutral left			3VW9011-0AT76	1	1 unit	1CB
Rogowski CT solo external neutral								
	Description	Can be used for ETU						
	For 3-pole circuit breakers only	ETU320, ETU350, ETU360 / ETU650, ETU660		3VW9011-0AA30	1	1 unit	1CB	
	CT external for grounded transformer star point							
	Description	Can be used for ETU						
	$C_{ret} =$ Ground return 100 A	ETU360 or ETU660		3VW9011-0GF30	1	1 unit	1CB	
	$C_{ret} =$ Ground return 250 A	ETU360 or ETU660		3VW9011-0GF31	1	1 unit	1CB	
Summation current transformer external Rc-CT for residual current measurement								
	Description	Can be used for ETU						
	For external residual current measurement	ETU660 Only with Metering MF Advanced and Rating Plug Rc		3VW9011-0RC30	1	1 unit	1CB	

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Size 0 for AC up to 1250 A

Accessories and spare parts

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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	d					

Rating plugs



Only one module is possible per circuit breaker.

As standard, the Electronic Trip Units are equipped with a rating plug for setting ($< I_n, \max$) the rated current I_n , which corresponds to the maximum rated breaking current ($< I_n, \max$). The rated current of the selected rating plug must be equal to or less than I_n, \max .

Description	For ETU	Rated current I_n A				
Rating plugs for setting ($< I_n, \max$) the rated current I_n .	All	400	3VW9011-0AA53	1	1 unit	1CB
		630	3VW9011-0AA55	1	1 unit	1CB
		800	3VW9011-0AA56	1	1 unit	1CB
		1000	3VW9011-0AA57	1	1 unit	1CB
		1250	3VW9011-0AA58	1	1 unit	1CB
Rating plug with overload protection L = OFF and for setting ($< I_n, \max$) the rated current I_n .	All	400	3VW9011-0LF53	1	1 unit	1CB
		630	3VW9011-0LF55	1	1 unit	1CB
		800	3VW9011-0LF56	1	1 unit	1CB
		1000	3VW9011-0LF57	1	1 unit	1CB
		1250	3VW9011-0LF58	1	1 unit	1CB
Rating plug Rc for ETU660, for enabling the residual current protection function and setting ($< I_n, \max$) the rated current I_n . The residual current function is only possible with the metering function MF Advanced.	for ETU660 only	400	3VW9011-0RC53	1	1 unit	1CB
		630	3VW9011-0RC55	1	1 unit	1CB
		800	3VW9011-0RC56	1	1 unit	1CB
		1000	3VW9011-0RC58	1	1 unit	1CB

Remote reset magnet for tripped signaling



Description	Can be used for ETU	Version				
Remote reset magnet (RR) for resetting the circuit breaker after tripping as a result of over-current conditions	All	24 V DC	3VW9011-0AK03	1	1 unit	1CB
		110 V AC/DC	3VW9011-0AK05	1	1 unit	1CB
		250 V AC/DC	3VW9011-0AK06	1	1 unit	1CB

Replacement battery for ETU



Description	Can be used for ETU					
Replacement battery for Electronic Trip Unit	All		3VW9011-0AT38	1	1 unit	1CB

CB bus modules - communication modules



Description	Communication module	Protocol				
These contain the communication module.	COM040 ¹⁾	Profibus	3VW9011-0AT15	1	1 unit	1CB
	COM041 ¹⁾	Profinet	3VW9011-0AT14	1	1 unit	1CB
Up to two different communication modules can be used at the same time; when using a digital I/O module IOM040 (K56), only one communication module can be used.	COM043	Modbus TCP	3VW9011-0AT16	1	1 unit	1CB
	COM042	Modbus RTU	3VW9011-0AT17	1	1 unit	1CB
	COM044 ¹⁾	IEC 61850	3VW9011-0AT18	1	1 unit	1CB
Can only be used with ETU 6-series						





¹⁾ Estimated start of delivery 2nd quarter 2018

Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers Size 0 for AC up to 1250 A

Accessories and spare parts

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				SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d									
CB bus modules - I/O modules external									
	Description	Type	Version						
	External I/O module for snapping onto standard mounting rail with 11 inputs and 10 outputs for voltages ≤ 150 V DC and for 250 V AC. Maximum switching current per contact: - 2 A at ≤ 30 V DC - 0.8 A at 50 V DC - 0.2 A at 150 V DC - 4 A at 250 V AC Can only be used with ETU 6-series	Digital I/O module IOM300	11 inputs and 10 outputs		3VW9011-0AT20		1	1 unit	1CB
CB bus modules - I/O modules internal									
	Description	Type	Version						
	I/O module with 2 inputs and 2 outputs for voltages ≤ 150 V DC and for 250 V AC. Maximum switching current per contact: - 2 A at ≤ 30 V DC - 0.8 A at 50 V DC - 0.2 A at 150 V DC - 4 A at 250 V AC When using a digital I/O module IOM040, only 1 communication module can be used. Can only be used with ETU 6-series	Digital I/O module IOM040	2 inputs and 2 outputs		3VW9011-0AT30		1	1 unit	1CB
Actuator module COM ACT									
	Description								
	For switching the circuit breaker on/off remotely via communication. Actuation of the closing coil (CC) and the 1st shunt release (ST). Can only be used in combination with a communication module, spring charging motor, closing coil and 1st shunt release. Can only be used with ETU 6-series				3VW9011-0AT10		1	1 unit	1CB
Breaker Connect module									
	Description	Type	Version						
	External power supply for the electronics components	Breaker Connect module	110 - 240 V AC/DC 24 - 48 V DC		3VW9011-0AT06 3VW9011-0AT07		1	1 unit	1CB




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			SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
			d						
Auxiliary contact signals for communication									
	Description	Type	Version						
	Auxiliary contacts for signaling the readiness to close or position signaling switches of the withdrawable positions.	Ready-to-close signal COM RTC	For communications interface	3VW9011-0AT11		1	1 unit	1CB	
	Can only be used in combination with communication module. Can be combined with standard position signaling switches or ready-to-close signaling contacts.	Position signaling switch for withdrawable breaker COM PSS only	For communications interface	3VW9011-0AT12		1	1 unit	1CB	
Test device and Breaker Data Adapter									
	Description		Version						
	Test device TD310 for the trip test via ETU and tripping solenoid including release.		TD310	3VW9011-0AT32		1	1 unit	1CB	
	The ETU and the tripping solenoids are activated by means of a battery built into the test device. On activation in the ETU 6-series, the parameters can be configured on the display. Can be used for all ETUs 3-series and 6-series.								
	Breaker Data Adapter TD410 as gateway for the parameterization of the ETU with powerconfig and the generation of a report of the set parameters with powerlog. Can be used for all ETUs 3-series and 6-series.			TD410	3VW9011-0AT34		1	1 unit	1CB
	Breaker Data Adapter TD420 as gateway for the parameterization of the ETU with powerconfig: - Testing a tripping operation using powerconfig and using the powerlog software: - Testing of the basic protection functions LSING - Testing of the enhanced protection functions - Test data storage - Readout of ETU buffer - Generation of a report of the set parameters Can be used for all ETUs 3-series and 6-series.		TD420	3VW9011-0AT33		1	1 unit	1CB	
Auxiliary supply connector in plug-in version									
	Description		Version						
	10 auxiliary supply connectors in plug-in version for upgrading fixed breakers and guide frames		Push-in	3VW9011-0AB11		1	10 ST	1CB	

				SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
Auxiliary / signaling switches										
	Description	Type	Version	d						
	Auxiliary and signaling switches are each offered in two versions: a.) Standard version for currents > 100 mA and up to 400 V AC, - smallest load above 100 mA @ 24 V DC and a - maximum breaking capacity of 5 A @ 250 V AC. b.) Digital version for currents < 100 mA for PLC connections, - smallest load above 1 mA @ 5 V DC and a - maximum breaking capacity of 100 mA @ 24 V DC. For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed breakers a 3VW9011-0BB5x side-wall modification.	Ready-to-close signal RTC	1 CO standard, S20		3VW9011-0AH01		1	1 unit	1CB	
				1 CO digital, S20		3VW9011-0AH02		1	1 unit	1CB
		Auxiliary switch ON/OFF AUX	4 CO standard		3VW9011-0AG01		1	1 unit	1CB	
			4 CO digital		3VW9011-0AG02		1	1 unit	1CB	
			2 CO standard + 2 CO digital		3VW9011-0AG03		1	1 unit	1CB	
		External auxiliary switch ON/OFF AUX	15 CO standard		3VW9011-0AG05		1	1 unit	1CB	
			15 CO digital		3VW9011-0AG06		1	1 unit	1CB	
		Tripped signaling switch S24	1 CO standard		3VW9011-0AH14		1	1 unit	1CB	
			1 CO digital		3VW9011-0AH15		1	1 unit	1CB	
		Spring charged signaling switch S21.	1 CO standard		3VW9011-0AH10		1	1 unit	1CB	
			1 CO digital		3VW9011-0AH08		1	1 unit	1CB	
			Position signaling switch PSS only with withdrawable breaker ¹⁾	6 CO; 2x connected, 2x test and 2x disconnected; standard		3VW9011-0AH11		1	1 unit	1CB
		6 CO; 2x connected, 2x test and 2x disconnected; digital.		3VW9011-0AH12		1	1 unit	1CB		

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

Fixation for external auxiliary switches AUX 15CO									
	Description	Version							
	Fixation for external auxiliary switches ON/OFF AUX 15 CO.	Fixed breakers, rear wall or floor fixation (as a base for this, the Z option S56 (3VW9011-0BB52) or S57 (3VW9011-0BB53) is to be used in addition)			3VW9011-0AG15		1	1 unit	1CB
	External auxiliary switches ON/OFF AUX 15 CO are to be ordered separately.	For guide frame			3VW9011-0AG17		1	1 unit	1CB

Spring charging motors									
	Description	Version							
	Spring charging motors for automatic charging of the stored energy operator	24 ... 30 V AC/DC			3VW9011-0AF01		1	1 unit	1CB
		48 ... 60 V AC/DC			3VW9011-0AF02		1	1 unit	1CB
		100 ... 130 V AC/DC			3VW9011-0AF03		1	1 unit	1CB
		220 ... 250 V AC/DC			3VW9011-0AF04		1	1 unit	1CB






Closing coil / shunt release									
	Description	Version							
	Closing coil / shunt release (CC / ST)	24 V AC/DC			3VW9011-0AD01		1	1 unit	1CB
		30 V AC/DC			3VW9011-0AD02		1	1 unit	1CB
		48 V AC/DC			3VW9011-0AD03		1	1 unit	1CB
		60 V AC/DC			3VW9011-0AD04		1	1 unit	1CB
		110 ... 120 V AC/DC			3VW9011-0AD05		1	1 unit	1CB
		120 ... 127 V AC/DC			3VW9011-0AD06		1	1 unit	1CB
		220 ... 240 V AC/DC			3VW9011-0AD07		1	1 unit	1CB
		240 ... 250 V AC/DC			3VW9011-0AD08		1	1 unit	1CB
		380 ... 400 V AC			3VW9011-0AD17		1	1 unit	1CB
415 ... 440 V AC			3VW9011-0AD18		1	1 unit	1CB		

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		SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
		d						
Function test unit TD320 for closing coil / shunt release								
	Description	Version						
	<p>The TD320 test unit allows the operational availability and functions of the closing coils and shunt releases with a rated operational voltage between 24 V and 250 V (AC and DC) to be tested.</p> <p>The operational availability test is performed cyclically at intervals of 30 seconds. The unit has visual indicators in the form of LEDs on the front in order to display the following states:</p> <p>LED POWER ON LIT: Correct function of the YO/YC test unit</p> <p>LED DEACTIVATION LIT: Power supply failure, wire break</p> <p>LED SHORT-CIRCUIT LIT: Winding short-circuit</p> <p>LED DEACTIVATION and SHORT-CIRCUIT FLASHING: Incorrect power supply</p> <p>LED DEACTIVATION and SHORT-CIRCUIT OFF: Closing coil / shunt release OK</p>	For all closing coils / shunt releases	3VW9011-0AT31		1	1 unit	1CB	
Undervoltage releases								
	Description	Version						
	Undervoltage release UVR	24 V AC/DC	3VW9011-0AE01		1	1 unit	1CB	
		30 V AC/DC	3VW9011-0AE02		1	1 unit	1CB	
		48 V AC/DC	3VW9011-0AE03		1	1 unit	1CB	
		60 V AC/DC	3VW9011-0AE04		1	1 unit	1CB	
		110 ... 120 V AC/DC	3VW9011-0AE05		1	1 unit	1CB	
		120 ... 127 V AC/DC	3VW9011-0AE06		1	1 unit	1CB	
		220 ... 240 V AC/DC	3VW9011-0AE07		1	1 unit	1CB	
		240 ... 250 V AC/DC	3VW9011-0AE08		1	1 unit	1CB	
		380 ... 400 V AC	3VW9011-0AE17		1	1 unit	1CB	
		415 ... 440 V AC	3VW9011-0AE18		1	1 unit	1CB	
External time-delay device for undervoltage release								
	Description	Version						
	External time-delay device for undervoltage release UVR with adjustable delay time from 0.5 to 3 s.	24 ... 30 V AC/DC	3VW9011-0AE10		1	1 unit	1CB	
		48 V AC/DC	3VW9011-0AE11		1	1 unit	1CB	
		60 V AC/DC	3VW9011-0AE15		1	1 unit	1CB	
		110 ... 127 V AC/DC	3VW9011-0AE12		1	1 unit	1CB	
	Suitable for mounting onto standard rail.	220 ... 250 V AC/DC	3VW9011-0AE13		1	1 unit	1CB	
Mechanical operating cycles counter								
	Description	Type	Version					
	Mechanical operating cycles counter only possible in combination with a spring charging motor.	Mechanical operating cycles counter	5 digits	3VW9011-0AH07		1	1 unit	1CB
Door sealing frame IP30								
	Description	Type	Version					
	For fixed and withdrawable breaker versions. Can only be used up to IP3X degree of protection.	For fixed breakers	IP3x	3VW9011-0AP01		1	1 unit	1CB
	For IP4X and higher, you must order the protective cover IP54 3VW9011-0AP03 or 3VW9011-0AP13.	For withdrawable breakers	IP3x	3VW9011-0AP02		1	1 unit	1CB
	Replacement part for Z option T30.							




Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers

Size 0 for AC up to 1250 A

Accessories and spare parts

1

				SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Protective cover IP54									
	Description	Type	Version	d					
	Protective cover / hood IP54 lockable for fixed breakers and with-drawable breakers, for implementing degrees of protection IP4X and IP54 when installing in switchboard door. Cannot be combined with IP30 door sealing frame	Lock with unique key	IP54		3VW9011-0AP03		1	1 unit	1CB
		Lock with standard key	IP54		3VW9011-0AP13		1	1 unit	1CB
Support for floor fixation and modification of the side shoulder of the fixed circuit breaker									
	Description	Type	Version						
 	Mounting support standard (circuit breaker feet) for fixing the circuit breaker on the floor.	For fixed breakers only	Floor fixation		3VW9011-0BB51		1	1 unit	1CB
	Mounting support extended (circuit breaker feet); kit including mechanical transmission of switch position on circuit breaker side shoulder. ¹⁾ (= option S56)	For fixed breakers only	Floor fixation		3VW9011-0BB52		1	1 unit	1CB
	Side panel extension kit, modification for mechanical transmission of switch position on circuit breaker side shoulder. ¹⁾ (= option S57)	For fixed breakers only	Rear fixation on mounting plate		3VW9011-0BB53		1	1 unit	1CB

¹⁾ Required for:




- Fixation of external auxiliary switch AUX 15CO (3VW9011-0AG15)
- Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10)
- Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16)
- Mechanical interlocking with 3WL/3VA (for 3VW9011-0BB20)




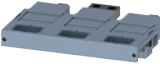



Air Circuit Breakers

3WL10 Air Circuit Breakers/Non-Automatic Air Circuit Breakers
Size 0 for AC up to 1250 A

Accessories and spare parts

1

				SD	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
Locking devices (for fixed breakers and withdrawable breakers)										
	Description	Type	Version	d						
	Locking devices in OFF position to prevent unauthorized activation, in the operator panel (safe OFF).	Cylinder lock (replacement for S08)	Ronis		3VW9011-0BA33		1	1 unit	1CB	
		Padlock 4 mm (replacement for S22)	Plastic for up to 3 locks		3VW9011-0BA41		1	1 unit	1CB	
		Padlock 7 mm (replacement for S23)	Metal for no more than 1 lock		3VW9011-0BA42		1	1 unit	1CB	
	The disconnecter unit fulfills the conditions for a supply disconnecting (isolating) device acc. to EN 60204-1.	Padlock 8 mm (replacement for S07)	Metal for no more than 2 locks		3VW9011-0BA44		1	1 unit	1CB	
		Padlockable protective cover ON/OFF on the operator panel.	Padlock 4 mm (replacement for S42)	Plastic for up to 3 locks		3VW9011-0BA22		1	1 unit	1CB
			Padlock 7 mm (replacement for S43)	Metal for no more than 1 lock		3VW9011-0BA23		1	1 unit	1CB
			Padlock 8 mm (replacement for S44)	Metal for no more than 2 locks		3VW9011-0BA24		1	1 unit	1CB
	Protective cover ON/OFF to protect against unintentional actuation on the operator panel. Not lockable.	Protective cover (replacement for S41)			3VW9011-0BA21		1	1 unit	1CB	
	Locking devices (for withdrawable breakers) ¹⁾									
	Description	Type	Version							
	Locking device to prevent movement of the withdrawable circuit breaker.	Cylinder lock (replacement for R78)	Ronis		3VW9011-0BA80		1	1 unit	1CB	
	Safety lock for mounting on the circuit breaker.	Padlock 8 mm (replacement for R65)	For no more than 3 locks		3VW9011-0BA87		1	1 unit	1CB	
	Locking mechanism to prevent movement of the withdrawable breaker version in disconnected position. Supplement to R78 (3VW9011-0BA80) and/or R65 (3VW9011-0BA84). Only possible when using R78 (3VW9011-0BA80) and/or R65 (3VW9011-0BA84).	Locking device (replacement for R79)			3VW9011-0BA84		1	1 unit	1CB	
	¹⁾ Can be used not only when guide frame is ordered separately, but also with complete order (breaker + guide frame).									
Locking mechanism to prevent opening of the control cabinet door in ON position										
	Description	Type	Version							
	Locking mechanism to prevent opening of the control cabinet door in ON position.	Fixed in side panel / or floor mounting ¹⁾	Direct fixed interlocking		3VW9011-0BB10		1	1 unit	1CB	
		Withdrawable	Direct fixed interlocking		3VW9011-0BB14		1	1 unit	1CB	
	It additionally prevents the circuit breaker from being closed when the control cabinet door is open.	Fixed in side panel / or floor mounting ¹⁾	Locking with Bowden cable		3VW9011-0BB16		1	1 unit	1CB	
		Withdrawable	Locking with Bowden cable		3VW9011-0BB18		1	1 unit	1CB	
¹⁾ As a basis for this, the Z option S56 (3VW9011-0BB52) or S57 (3VW9011-0BB53) must additionally be used										

				SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Phase barriers for fixed breakers									
	Description	Version	Number of poles / quantity						
	Set of phase barriers for fixed breakers. For operating voltages > 440 V AC the use of phase barriers is mandatory; up to 440 V AC their use is optional.	H = 100 mm	3-pole / 4 units	3VW9723-0WA00			1	1 unit	1CB
		H = 200 mm	3-pole / 4 units	3VW9723-0WA01			1	1 unit	1CB
		H = 100 mm	4-pole / 6 units	3VW9724-0WA10			1	1 unit	1CB
		H = 200 mm	4-pole / 6 units	3VW9724-0WA11			1	1 unit	1CB
Terminals for main circuit connection									
	Description	Version	Number of poles / quantity						
	Set of front terminals for main circuit connection; to be ordered separately for top and bottom.	Fixed breakers up to 1250 A	3-pole / 3 units	3VW9011-0AL01			1	1 unit	1CB
			4-pole / 4 units	3VW9011-0AL02			1	1 unit	1CB
		Withdrawable breakers up to 1250 A	3-pole / 3 units	3VW9011-0AN01			1	1 unit	1CB
			4-pole / 4 units	3VW9011-0AN02			1	1 unit	1CB
	Set of front terminals for main circuit connection, extended Mounting on front terminals for main circuit connection; to be ordered separately for top and bottom.	Fixed breakers up to 1250 A	3-pole / 3 units	3VW9011-0AL77			1	1 unit	1CB
			4-pole / 4 units	3VW9011-0AL78			1	1 unit	1CB
	Set of rear terminals for main circuit connection; rotatable horizontally / vertically; to be ordered separately for top and bottom.	Fixed breakers up to 1250 A	3-pole / 3 units	3VW9011-0AL32			1	1 unit	1CB
			4-pole / 4 units	3VW9011-0AL33			1	1 unit	1CB
		Withdrawable breakers up to 1250 A	3-pole / 3 units	3VW9011-0AN32			1	1 unit	1CB
			4-pole / 4 units	3VW9011-0AN33			1	1 unit	1CB
	Set of circular conductor terminals; Adapter 4x 240 mm ² for front Cu/Al cable connection (fixed breakers);	Fixed breakers up to 1250 A	3-pole / 3 units	3VW9011-0AL71			1	1 unit	1CB
			4-pole / 4 units	3VW9011-0AL72			1	1 unit	1CB
	Set of adapters for rear 4x 240 mm ² Cu/Al cable connection for cable lugs; Mounting on rear vertical terminals for main circuit connection (withdrawable breakers); to be ordered separately for top and bottom.	Withdrawable breakers up to 1250 A	3-pole / 3 units	3VW9011-0AN71			1	1 unit	1CB
			4-pole / 4 units	3VW9011-0AN72			1	1 unit	1CB
Terminal covers for fixed circuit breakers									
	Description	Version	Number of poles / quantity						
	Finger-proof terminal cover for front terminals for main circuit connection for fixed breakers	For fixed breakers, standard	3-pole / 2 units	3VW9723-0WD30			1	1 unit	1CB
			4-pole / 2 units	3VW9724-0WD40			1	1 unit	1CB
		For fixed breakers, extended	3-pole / 2 units	3VW9723-0WF30			1	1 unit	1CB
			4-pole / 2 units	3VW9724-0WF40			1	1 unit	1CB
Mechanical interlocking with Bowden cable									
	Description	Version	Number of poles / quantity						
	Mechanical interlocking to 3WL / 3VA (interlocking module with Bowden cable 2 m)	Fixed	Rear panel or floor mounting ¹⁾	3VW9011-0BB20			1	1 unit	1CB
		Withdrawable	Fixation on guide frame	3VW9011-0BB22			1	1 unit	1CB

¹⁾ As a basis for this, the Z option S56 (3VW9011-0BB52) or S57 (3VW9011-0BB53) must additionally be used

Appendix

Conditions of sale and delivery

1. General standards

By using this catalog you can acquire hardware and software products described therein from Siemens AG subject to these conditions of sale and delivery (hereinafter: CSD). Please note: the scope, the quality and the conditions for supplies and services, including software products, by any Siemens group or Regional Company having a registered office outside of Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. These CSD apply exclusively for orders placed with Siemens AG, Germany.

1.1 For customers with a seat or registered office in Germany

For customers with a seat or registered office in Germany, the following shall be subordinate to these CSD

- the "General Terms of Payment"¹⁾ and
- for software products, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or Registered Office in Germany"¹⁾ and
- the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾ for other deliveries and services.

1.2 For customers with a seat or registered office outside of Germany

For customers with a seat or registered office outside of Germany, the following shall be subordinate to these CSD

- the "General Terms of Payment"¹⁾ and
- for software products, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or Registered Office outside of Germany"¹⁾ and
- the "General Conditions for Supplies of Siemens Industry for Customers with a Seat or Registered Office outside of Germany"¹⁾ for other deliveries and services.

2. Prices

The prices are in € (Euro) ex works, excluding packaging.

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

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

To compensate fluctuating prices of raw materials (for example silver, copper, aluminum, lead, gold, dysprosium and neodymium), surcharges are calculated on a daily basis for products containing these raw materials using the metal factor. A surcharge for the particular raw material is added to the price of a product if the basic quotations for this raw material are exceeded.

Each product's metal factor dictates for which raw materials the metal surcharges are calculated, from which quotation and with which calculation method (weight or percentage method).

An exact explanation of the metal factor can be found at www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

The surcharge will be calculated (except in the case of dysprosium and neodymium) on the basis of the official price on the day prior to receipt of the order or prior to the release order for calculation of the surcharge.

In the event of placement of an order, the relevant three-month average price from the quarter prior to order receipt or the release order shall be used with a one-month buffer to calculate the dysprosium and neodymium surcharge ("rare earths") (you will find details in the aforementioned explanation of the metal factor).

3. Additional terms and conditions

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

Illustrations are not binding.

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

4. Export regulations

We 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.

Export of the products listed in this catalog may be subject to authorization. In delivery information, we label authorization obligations according to German, European and US export lists. Goods labeled with an "AL" not equal to "N" are subject to European or German export authorization when being exported out of the EU. Goods labeled with "ECCN" not equal to "N" are subject to a US re-export authorization.

Please note that you can also preview the export designations in the respective product description via our "Industry Mall" online catalog system. The deciding factors, however, are the AL or ECCN export designations indicated on order confirmations, delivery notes and invoices.

Even if goods are not labeled, or labeled "AL:N" or "ECCN:N", they may still be subject to export authorization based on the final destination and end use of the goods.

If you transfer goods (hardware and/or software and/or technology as well as corresponding documentation, regardless of the mode of provision) delivered by us or works and services (including all kinds of technical support) performed by us to a third party worldwide, you shall comply with all applicable national and international (re-) export control regulations.

If required to conduct export control checks, you, at our request, shall promptly provide us with all information pertaining to particular end customers, destination and intended use of goods, works and services provided by us, as well as any relevant export control restrictions.

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¹⁾ You can download the text of the Siemens AG terms and conditions of trade at

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Article No. E86060-K8280-E344-A1-7600
KG 0118 58 En
Produced in Germany

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Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

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