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# Low-Voltage Power Distribution and Electrical Installation Technology

## Air Circuit Breakers

Catalog Extract LV 10

Edition 04/2019

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## Related catalogs

**Low-Voltage Power Distribution and Electrical Installation Technology** LV 10
SENTRON • SIVACON • ALPHA
Protection, Switching, Measuring and Monitoring Devices, Switchboards and Distribution Systems

PDF (E86060-K8280-A101-A9-7600)
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**Air Circuit Breakers and Molded Case Circuit Breakers with UL Certification** LV 18
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**Industrial Controls** IC 10
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**Industrial Communication** IK PI
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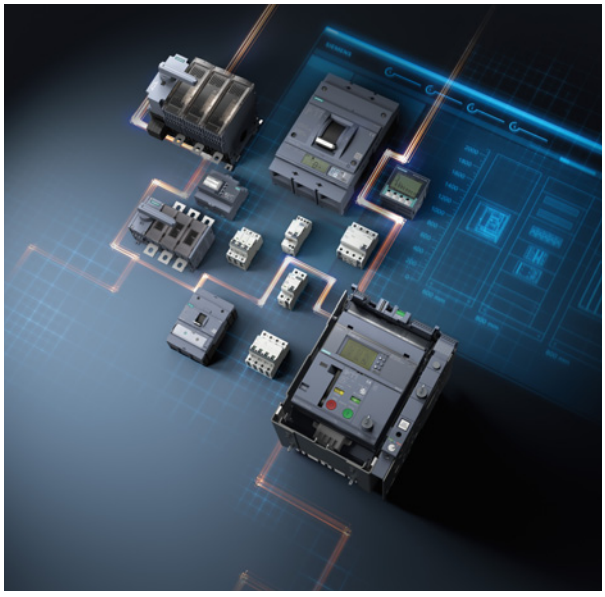
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# Low-Voltage Power Distribution and Electrical Installation Technology

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

SENTRON · SIVACON · ALPHA



**Catalog LV 10 · 04/2019**

You can find the updated catalog valid from October 2019 in the Siemens Industry Online Support under www.siemens.com/lowvoltage/catalogs

Supersedes:
Catalog LV 10 · 10/2018

Refer to the Industry Mall for current prices:
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The products in this catalog can also be found in the Interactive Catalog CA 01:
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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.


Protection, Switching, Measuring and Monitoring Devices

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Molded Case Circuit Breakers 2
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# Opening Information

## Ordering notes

### Overview

#### *Ordering special versions*

When ordering products that differ from the standard versions listed in the catalog, **"–Z"** must be added to the Article No. indicated and the required features must be specified using alphanumeric order codes or plain text.

#### *Ordering very small quantities*

When very small orders are placed, the costs associated with order processing are greater than the order value. We therefore recommend that you combine several small orders. Where this is not possible, we regret that we are obliged to make a small processing charge: for orders with a net goods value of less than € 250 we charge a € 20 supplement to cover our order processing and invoicing costs.

#### *Explanations of Selection and ordering data*

**Standard delivery time (SD)**

► Preferred type — Preferred types are device types that can be delivered immediately ex works, i.e. they are dispatched within 24 hours.

**Price units (PU)**

The price unit defines the number of units, sets or meters to which the specified price applies.

**Packaging size (PS)**

The packaging size defines the number of units, sets or meters, for example, for outer packaging.

Only the quantity defined by the packaging size or a multiple thereof can be ordered.

**Price group (PG)**

Each product is allocated to a price group.

**Example**

5TT3400

SD: Preferred type
PG: 13C
Ordering quantity 1 unit or a multiple thereof

8US1923-5CA02

PG: 14O
Ordering quantity 10 units or a multiple thereof

8WH9000-1GA00

PG: 12X
Ordering quantity 50 units or a multiple thereof

| SD d | Article No. | Price per PU | PU (UNIT, SET, M) | PS* | PG |
|---|---|---|---|---|---|
| ► | **5TT3400** | | 1 | 1 unit | 1BK |
| | **8US1923-5CA02** | | 1 | 10 units | 1CU |
| | **8WH9000-1GA00** | | 100 | 50 units | 1BT |

Note:

The article numbers shown here and the specifications regarding selection and ordering data are examples only. When ordering, always use the selection and ordering data in the product chapters.

**Metal surcharges/export markings**

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

A product's export markings/metal surcharges are updated daily at www.siemens.com/industrymall.

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**3WL11-13 air circuit breakers/ non-automatic air circuit breakers**

1/5 Introduction

Up to 6300 A (AC), IEC

1/6 Introduction
1/9 General data
1/20 3-pole, fixed-mounted versions
1/27 3-pole, withdrawable versions
1/34 4-pole, fixed-mounted versions
1/41 4-pole, withdrawable versions
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1/56 Accessories and spare parts

Up to 4000 A (DC), IEC

1/80 General data
1/83 3 and 4-pole, fixed-mounted versions
1/84 3 and 4-pole, withdrawable versions
1/86 Accessories and spare parts

Ch. 8 **3KC ATC6300 and ATC3100 transfer control devices**

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

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Size 0 for AC up to 1250 A

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1/105 3-pole, withdrawable versions
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1/118 Withdrawable non-automatic circuit breakers
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**For further technical product information:**

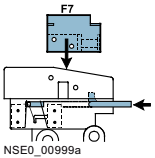
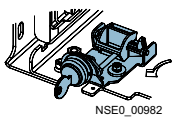
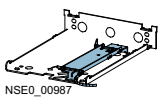
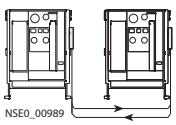
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Characteristic
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Product note
Software archive
Technical data

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## Overview

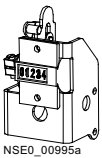
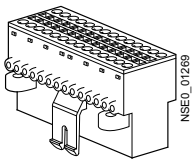
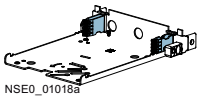
| Devices | | Page<br>3WL1 | Application/<br>individual components | Standards | Used in<br>Non-residential buildings | Residential buildings | Industry |
|---|---|---|---|---|---|---|---|
|  | **3WL1 air circuit breakers/non-automatic air circuit breakers up to 6300 A (AC), IEC** | 1/20 ...<br>1/47 | As incoming-feeder, distribution, tie, and outgoing-feeder circuit breakers in electrical installations.<br>For switching and protecting motors, capacitors, generators, transformers, busbars and cables. | IEC 60947-2, climate-proof acc. to IEC 60068-2-30<br>CCC | ✓ | -- | ✓ |
|  | **3WL1 non-automatic air circuit breakers up to 4000 A (DC), IEC** | 1/83 ...<br>1/85 | As incoming-feeder, distribution, tie, and outgoing-feeder circuit breakers in electrical installations.<br>For switching and protecting busbars and cables. | IEC 60947-2, climate-proof acc. to IEC 60068-2-30<br>CCC | ✓ | -- | ✓ |
| | **Protective device with device holder and optional metering function (ETU)** | 1/65 | Electronic Trip Units with protection functions LI, LSI, LSING, LSIN(G) with and without metering function *Plus* | As for circuit breakers | ✓ | -- | ✓ |
|  <br>NSE0_00992b | **Rating plugs** | 1/65 | For rated current $I_n$ from 250 A to 6300 A.<br>The maximum rated current of the circuit breaker must not be exceeded. | As for circuit breakers | ✓ | -- | ✓ |
|  <br>NSE0_01027a | **Ground-fault modules** | 1/65 | With alarm and tripping | As for circuit breakers | ✓ | -- | ✓ |
|  <br>NSE0_01609 | **Displays** | 1/65 | 4-line displays for ETU45B | As for circuit breakers | ✓ | -- | ✓ |
|  <br>NSE0_00990a | **Current transformers for N conductor protection** | 1/65 | Internal transformers for N conductors, external transformers for N conductors | As for circuit breakers | ✓ | -- | ✓ |
| | **EMC filters** | 1/65 | Common-mode interference suppressor filters | As for circuit breakers | ✓ | -- | ✓ |
|  <br>NSE0_00999a | **More accessories for Electronic Trip Units** | 1/66 | Sealable and lockable covers,<br>automatic reset of the reclosing lockout,<br>remote reset solenoid,<br>retrofittable internal **Cubicle**BUS wiring,<br>retrofittable internal wiring for connection of the external N and G transformers | As for circuit breakers | ✓ | -- | ✓ |
|  <br>NSE0_00982 | **Locking devices** | 1/66 | Interlocking set for mechanical ON/OFF,<br>locking devices against unauthorized closing in operator panels/for withdrawable circuit breakers,<br>locking devices for operating mechanism handle with padlock,<br>locking devices to prevent movement of the withdrawable circuit breakers,<br>interlocking systems | As for circuit breakers | ✓ | -- | ✓ |
|  <br>NSE0_00987 | **Locking mechanisms** | 1/67 | To prevent movement of the withdrawable circuit breakers into disconnected position,<br>to prevent opening of the cabinet door in ON position,<br>to prevent opening of the cabinet door,<br>to prevent movement with the cabinet door open | As for circuit breakers | ✓ | -- | ✓ |
|  <br>NSE0_00989 | **Interlocks** | 1/68 | Mechanical interlocking,<br>couplings on the circuit breaker (with ring) for mutual interlocking,<br>Bowden cable | As for circuit breakers | ✓ | -- | ✓ |



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

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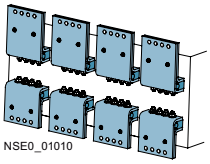
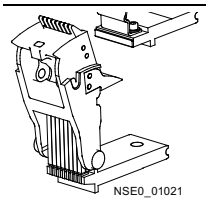


| Devices | | Page<br>3WL1 | Application/<br>individual components | Standards | Used in<br>Non-residential buildings | Residential buildings | Industry |
|---|---|---|---|---|---|---|---|
|  | **3KC ATC6300 and ATC3100 transfer control devices** | Ch. 8 | The 3KC ATC6300 and ATC3100 transfer control devices, equipped with two circuit breakers with motorized operating mechanism, serve as a transfer system that automatically or manually switches between two power supply systems in low-voltage power distribution applications. | IEC 60947-6-1<br>DIN VDE 0660-114<br>UL 508<br>CSA 22.2 No. 14 | ✓ | ✓ | ✓ |
| | **Test devices** | 1/68 | Manual testers Release 2 for Electronic Trip Units, function testers | As for circuit breakers | ✓ | -- | ✓ |
| | **Capacitor storage devices** | 1/75 | For shunt releases | As for circuit breakers | ✓ | -- | ✓ |
|  NSE0_00995a | **Indicators, control elements** | 1/69 | Ready-to-close signaling switches, signaling switches, tripped signaling switches,<br>operating cycles counters,<br>spring charged signaling switches,<br>position signaling switches for guide frames,<br>electrical ON buttons,<br>motor shutdown switches,<br>EMERGENCY-STOP buttons | As for circuit breakers | ✓ | -- | ✓ |
|  NSE0_01269 | **Auxiliary conductor connections** | 1/70 | Male connectors for circuit breakers,<br>extension for 1000 V male connector versions,<br>male connectors and extension for 1000 V,<br>auxiliary supply connectors for circuit breakers or guide frames,<br>coding kits,<br>sliding contact modules for guide frames,<br>blanking blocks for circuit breakers | As for circuit breakers | ✓ | -- | ✓ |
| | **Auxiliary releases** | 1/71 | Closing coils/shunt releases,<br>undervoltage releases | As for circuit breakers | ✓ | -- | ✓ |
| | **Operating mechanisms** | 1/71 | Motorized operating mechanism | As for circuit breakers | ✓ | -- | ✓ |
| | **Auxiliary contacts** | 1/71 | Auxiliary switch blocks | As for circuit breakers | ✓ | -- | ✓ |
| | **Door sealing frames, hoods, shutters** | 1/72 | Door sealing frames, IP55 protective covers, shutters | As for circuit breakers | ✓ | -- | ✓ |
| | **Arc chutes** | 1/72 | Arc chutes, arc chute covers | As for circuit breakers | ✓ | -- | ✓ |
| | **Coding for withdrawable version** | 1/72 | By customer, for 36 coding variants | As for circuit breakers | ✓ | -- | ✓ |
|  NSE0_01018a | **Grounding connection** | 1/73 | Grounding connection between the guide frame and the withdrawable circuit breaker,<br>contacting modules for withdrawable circuit breakers | As for circuit breakers | ✓ | -- | ✓ |
| | **Support brackets** | 1/73 | For mounting fixed-mounted circuit breakers on vertical plane | As for circuit breakers | ✓ | -- | ✓ |
| | **CubicleBUS modules** | 1/73 | Digital and analog input and output modules,<br>Zone Selective Interlocking modules | As for circuit breakers | ✓ | -- | ✓ |
| | **Parameterization systems** | 1/73 | Powerconfig commissioning and service software | As for circuit breakers | ✓ | -- | ✓ |
| | **Accessories for communication** | 1/74 | Pre-assembled cables for CubicleBUS modules,<br>SENTRON manual for communication solutions,<br>voltage transformers | As for circuit breakers | ✓ | -- | ✓ |
|  | **Retrofitting and spare parts** | 1/74 | PROFIBUS retrofit kits,<br>COM15 PROFIBUS modules,<br>COM16 Modbus modules,<br>COM35 PROFINET IO / Modbus TCP modules NEW<br>Modbus IEC retrofit kits,<br>Breaker Status Sensor (BSS),<br>metering function *Plus* NEW | As for circuit breakers | ✓ | -- | ✓ |

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

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| Devices | | Page | Application/ individual components | Standards | Used in | | |
|---|---|---|---|---|---|---|---|
| | | 3WL1 | | | Non-residential buildings | Residential buildings | Industry |
|  NSE0_01010 | **Main conductor connections, fixed-mounted, main conductor connections, withdrawable** | 1/76, 1/77 | Front-accessible main connections with double or single hole, rear vertical main connections, rear horizontal main connections, circuit connecting flanges, supports for front and DIN connecting bars | As for circuit breakers | ✓ | -- | ✓ |
| | **Conversion sets** | 1/78 | Conversion set for converting fixed-mounted circuit breakers into withdrawable circuit breakers | As for circuit breakers | ✓ | -- | ✓ |
|  NSE0_01021 | **Main contact elements** | 1/78 | For replacement of the main contacts during maintenance and thus to boost the useful life of the breaker. | As for circuit breakers | ✓ | -- | ✓ |



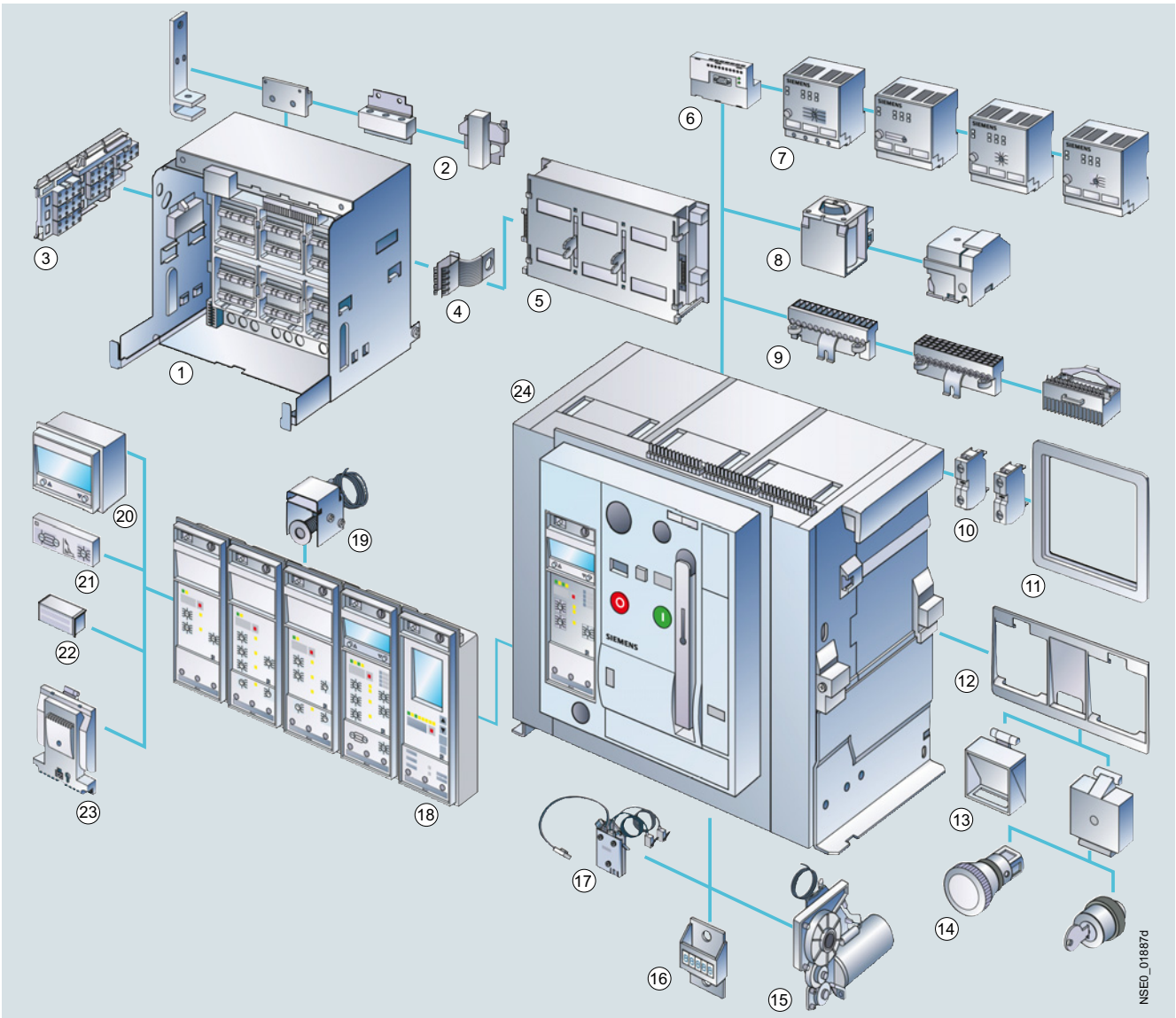
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## Overview

3WL1 air circuit breakers offer highly flexible application and consistent communication capability. With the 3WL1 circuit breakers, just three sizes cover a performance range of 630 A to 6300 A. All models are characterized by the same design, the same operation and the same comprehensive accessories.




① Guide frame (page 1/57 to page 1/63)
② Main circuit connection front, flange, horizontal, vertical, (page 1/54, 1/76 and 1/77)
③ Position signaling switch (page 1/52 and 1/69)
④ Grounding connection, leading (page 1/73)
⑤ Shutters (page 1/52 and 1/72)
⑥ COM15 PROFIBUS module or COM16 Modbus module or COM35 PROFINET IO / Modbus TCP module (page 1/52 and 1/74)
⑦ External **Cubicle**BUS modules (page 1/73)
⑧ Closing coil, auxiliary release (page 1/48, 1/51 and 1/71)
⑨ Auxiliary conductor plug-in system (page 1/53 and 1/70)
⑩ Auxiliary switch block (page 1/48 and 1/71)
⑪ Door sealing frame (page 1/51 and 1/72)
⑫ Interlocking set for mechanical ON/OFF (page 1/66)
⑬ Transparent panel, function insert (page 1/66)
⑭ EMERGENCY-STOP pushbutton, key operated (page 1/69)
⑮ Motorized operating mechanism (page 1/51 and 1/71)
⑯ Operating cycles counter (page 1/51 and 1/69)
⑰ Breaker Status Sensor (BSS) (page 1/52 and 1/74)
⑱ Protective device with device holder, Electronic Trip Unit (ETU) (page 1/65)
⑲ Remote reset solenoid (page 1/51 and 1/66)
㉑ Four-line display (page 1/65)
㉒ Ground-fault protection module (page 1/65)
㉓ Rating plug (page 1/49 and 1/65)
㉔ Metering function module (page 1/52 and 1/65)
㉕ Air circuit breaker (page 1/20 to 1/47)

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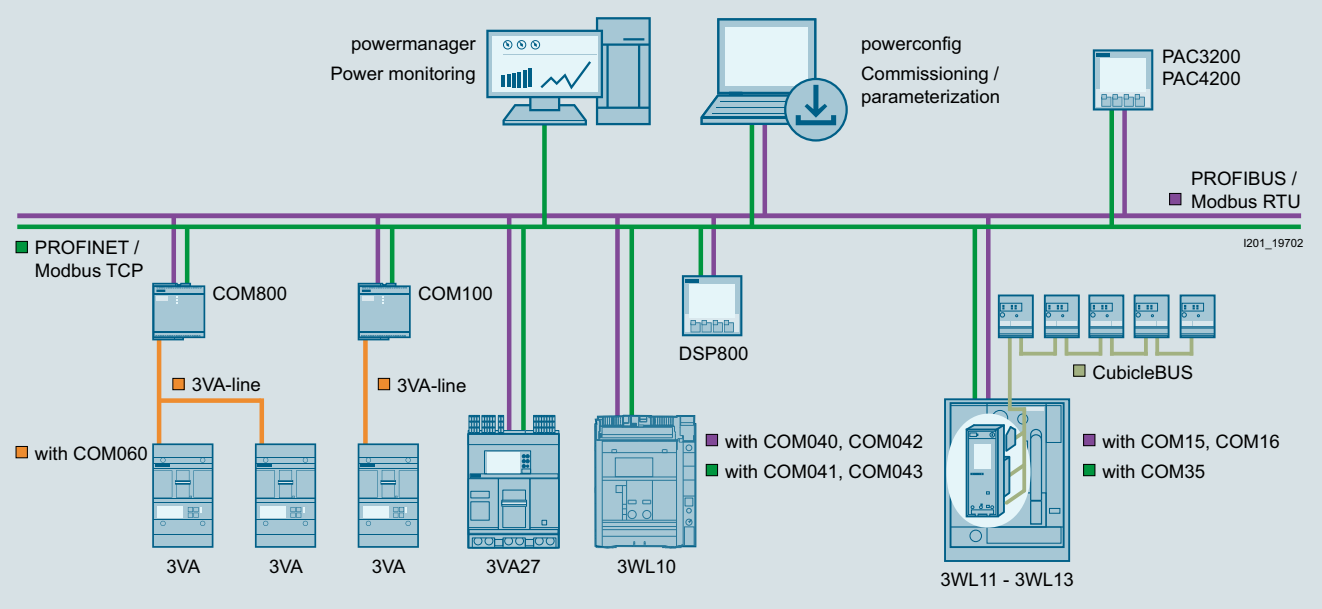




## Introduction

### Overview

***Communication-capable circuit breakers (with ETU45B or ETU76B Electronic Trip Unit)***




Communication possible with 3VA and 3WL

***COM35 communication module*** NEW

The COM35 PROFINET IO / Modbus TCP module is

- the first communication module which can use two protocols simultaneously (PROFINET IO and Modbus TCP) and
- which can be used in 3WL air circuit breakers sizes 1 ... 3 (3WL11 - 3WL13)

PROFINET IO

The PROFINET IO protocol provides the following features:

- Complies with Conformance Class C (CC-C)
- Has an IRT-capable (Isochronous Real Time) 2-port switch
- Complies with the highest Net Load Class (Net Load Class III)
- Supports media redundancies
- Is PNO-certified

Modbus TCP

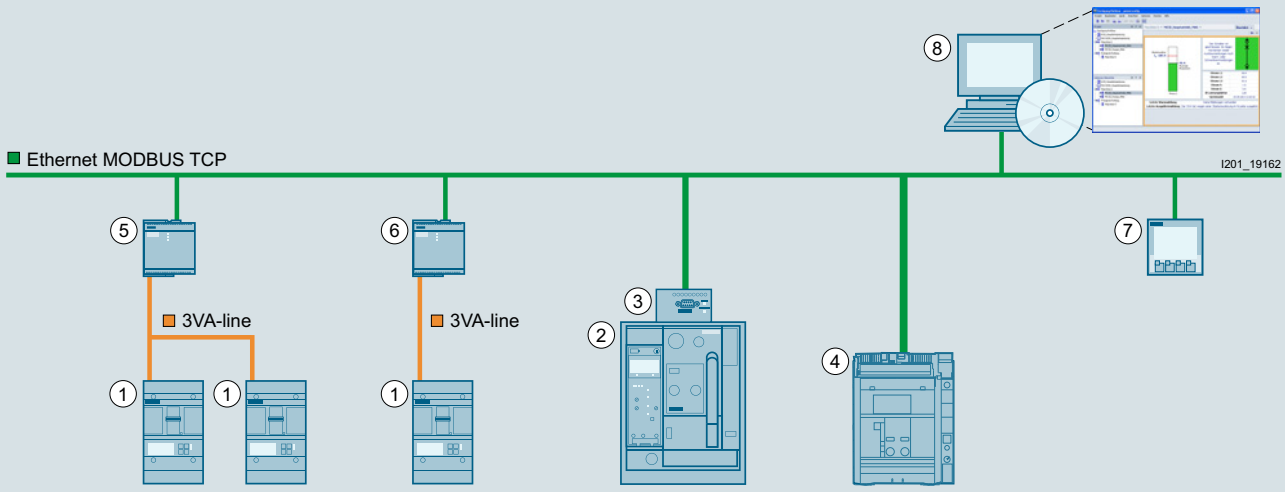
The Modbus TCP protocol complies with Specification V1.0b of the Modbus User Organization.



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

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1 3VA molded case circuit breakers
2 3WL air circuit breaker
3 COM35 MODBUS TCP
4 3WL10 air circuit breaker
5 COM800 breaker data server
6 COM100 breaker data server
7 7KM PAC3200 measuring device
8 Powerconfig commissioning and service software V2.3 and higher

***Characteristics***

- Coordinated communication concept on PROFINET IO, PROFIBUS DP, Modbus TCP and Modbus RTU from 16 A to 6300 A with 3VA molded case circuit breakers and 3WL air circuit breakers
- The high level of modularity of circuit breakers and accessories allows easy retrofitting of all communication components
- Significant additional benefits for the switchboard due to the possibility of linking up external input and output modules to the circuit breaker-internal **Cubicle**BUS of the 3WL air circuit breaker
- Innovative software products for parameterization, operation, monitoring, and diagnostics of circuit breakers locally
- Complete integration of the circuit breakers into the Totally Integrated Power and Totally Integrated Automation solutions

Communication:

- For air circuit breakers with optional communication function (ETU45B or ETU76B Electronic Trip Unit), see page 1/20 to page 1/47.
- For accessories, see page 1/73 and page 1/74.
- For more information, see chapter “Measuring Devices and Power Monitoring” and see chapter “Monitoring Devices”.
- For configuring information, see also Configuration Manual "Air Circuit Breakers" (www.siemens.com/lowvoltage/manuals).

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## Benefits

### *Low space requirements*

The 3WL1 air circuit breakers require very little space. Size I devices (up to 2000 A) fit into a 400 mm wide switchboard panel. Size III devices (up to 6300 A) are the smallest of their kind and with their construction width of 704 mm fit into an 800 mm wide switchboard panel.

The high number of electrical and mechanical operating cycles and the high $I_{cw}$*(1s)* values that normally match the $I_{cu}$ and $I_{cs}$ values of the switching devices offer possibilities for use in every application.

### *Modular design*

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

The main contact elements can all be replaced in order to increase the service life of the circuit breaker.

### *Retrofittable modules for Electronic Trip Units*

Modularity is one of the main features of the new 3WL1 circuit breakers.
Special LCDs, ground-fault modules, rating plugs 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 commissioning, 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:

- Fast and reliable parameterization
- 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.
- Can be used in 690 V networks

### *New developments*

| New developments/changes in the 3WL upgrade | |
|---|---|
| ✓ | New communication module for MODBUS TCP / PROFINET IO:<br>PROFINET IO fulfills<br>• the highest Conformance Class C (CC-C)<br>• the highest Net Load Class (Net Load Class III)<br>The Ethernet switch is integrated in the communication module for Modbus TCP. |
| ✓ | Internal voltage tap for metering function Plus up to $U_e$ = 690 V |
| ✓ | Use of 3WL at operating temperatures down to -40 °C (previously -25 °C) |
| ✓ | Improved rated short-circuit breaking values $I_{cu}$ and $I_{cs}$, improved short-circuit making capacity $I_{cm}$, highlighted values see page 1/13 |
| ✓ | Increased values for rated short-time withstand current $I_{cw}$ (1 s), such that $I_{cu}$ = $I_{cs}$ = $I_{cw}$ (1 s), see page 1/13<br>$I_{cu}$ = rated short-time withstand current<br>$I_{cs}$ = rated ultimate short-circuit breaking capacity |
| ✓ | Increased number of mechanical and electrical operating cycles, e.g. Size I (breaking capacity N/S) with maintenance increased from 20,000 to 25,000 operating cycles |

## 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 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 devices are available as circuit breakers and non-automatic air circuit breakers. The 3WL1 air circuit breakers can also be used at -40°C.

### *Standards*

3WL1 air circuit breakers comply with:

- IEC 60947-2
- IEC 60947-2 Annex F/CISPR 11/22 Class B
- Climate-proof according to IEC 60068-2-30.

For further standards, see chapter “Appendix”.



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

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## Technical specifications

| Size | | | I | | | | II | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Type** | | | **... 3WL11 10** | **3WL11 12** | **3WL11 16** | **3WL11 20** | **3WL12 08** | **3WL12 10** | **3WL12 12** | **3WL12 16** |
| **Number of poles** | | | 3-pole, 4-pole | | | | | | | |
| **Rated current $I_n$** at 40 °C, at 50/60 Hz | | | | | | | | | | |
| Main conductor | | A | ... 1000 | 1250 | 1600 | 2000 | 800 | 1000 | 1250 | 1600 |
| N conductor (only on 4-pole versions) | | A | ... 1000 | 1250 | 1600 | 2000 | 800 | 1000 | 1250 | 1600 |
| **Rated operational voltage $U_e$** at 50/60 Hz | | V AC | ... | ... | ... | ... | ... | ... | ... | ... |
| (1000 V version, see page 1/49 "Options") | | | 690/1000 | 690/1000 | 690/1000 | 690/1000 | 690/1000 | 690/1000 | 690/1000 | 690/1000 |
| **Rated insulation voltage $U_i$** | | V AC | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| **Rated impulse withstand voltage $U_{imp}$** | | | | | | | | | | |
| • Main conducting paths | | kV | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| • Auxiliary circuits | | kV | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| • Control circuits[9] | | kV | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| **Isolating function acc. to EN 60947-2** | | | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Utilization category** | | | B | | | | | | | |
| **Permissible ambient temperature** | | | | | | | | | | |
| • During operation (in operation with LCD max. 55 °C)[1] | | °C | –40/+70 | –40/+70 | –40/+70 | –40/+70 | –40/+70 | –40/+70 | –40/+70 | –40/+70 |
| • Storage | | °C | -40/+80 | -40/+80 | -40/+80 | -40/+80 | -40/+80 | -40/+80 | -40/+80 | -40/+80 |
| **Permissible load for withdrawable versions** at rear horizontal main connections | • Up to 55 °C (Cu, bare) | A | 1000 | 1250 | 1600 | 2000 | 800 | 1000 | 1250 | 1600 |
| | • Up to 60 °C (Cu, bare)[2] | A | 1000 | 1250 | 1600 | 1930 | 800 | 1000 | 1250 | 1600 |
| | • Up to 70 °C (Cu black, painted)[2] | A | 1000 | 1210 | 1490[3] | 1780 | 800 | 1000 | 1250 | 1600 |
| **Rated rotor operational voltage $U_{er}$** | | V | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| **Power loss at $I_n$** | | | | | | | | | | |
| With three-phase symmetrical load | | | | | | | | | | |
| • Fixed-mounted circuit breakers | | W | 100 | 105 | 150 | 240 | 40 | 45 | 80 | 85 |
| • Withdrawable circuit breakers | | W | 195 | 205 | 350 | 440 | 85 | 95 | 165 | 175 |
| **Switching times** | | | | | | | | | | |
| • Make time | | ms | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| • Opening time | | ms | 38 | 38 | 38 | 38 | 34 | 34 | 34 | 34 |
| • Electrical make time (through closing coil)[4] | | ms | 80 | 80 | 80 | 80 | 100 | 100 | 100 | 100 |
| • Electrical opening time (through shunt release) | | ms | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 |
| • Electrical opening time (instantaneous undervoltage release) | | ms | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 |
| • Opening time due to ETU, instantaneous short-circuit release | | ms | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| **Service life: Breaking capacity N and S, 3/4-pole** | | | | | | | | | | |
| • Mechanical (without maintenance) | | Operating cycles | 15 000 | 15 000 | 15 000 | 15 000 | 10 000 | 10 000 | 10 000 | 10 000 |
| • Mechanical (with maintenance)[5] | | Operating cycles | 25 000 | 25 000 | 25 000 | 25 000 | 17 500 | 17 500 | 17 500 | 17 500 |
| • Electrical (without maintenance) | | Operating cycles | 10 000 | 10 000 | 10 000 | 7500 | 7500 | 7500 | 7500 | 7500 |
| • 1000 V version, electrical (without maintenance) | | Oper. cycles | -- | -- | -- | -- | -- | -- | -- | -- |
| • 1150 V version, electrical (without maintenance) | | Oper. cycles | -- | -- | -- | -- | -- | -- | -- | -- |
| • Electrical (with maintenance)[5] | | Operating cycles | 25 000 | 25 000 | 25 000 | 25 000 | 17 500 | 17 500 | 17 500 | 17 500 |
| **Service life: Breaking capacity H, 3-pole** | | | | | | | | | | |
| • Mechanical (without maintenance) | | Operating cycles | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 |
| • Mechanical (with maintenance)[5] | | Operating cycles | 15 000 | 15 000 | 15 000 | 15 000 | 15 000 | 15 000 | 15 000 | 15 000 |
| • Electrical (without maintenance) | | Operating cycles | 7 500 | 7 500 | 7 500 | 7500 | 7500 | 7500 | 7500 | 7500 |
| • 1000 V version, electrical (without maintenance) | | Oper. cycles | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| • 1150 V version, electrical (without maintenance) | | Oper. cycles | -- | -- | -- | -- | 500 | 500 | 500 | 500 |
| • Electrical (with maintenance)[5][6] | | Operating cycles | 15 000 | 15 000 | 15 000 | 15 000 | 15 000 | 15 000 | 15 000 | 15 000 |
| **Service life: Breaking capacity H, 4-pole** | | | | | | | | | | |
| • Mechanical (without maintenance) | | Operating cycles | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 | 10 000 |
| • Mechanical (with maintenance)[5] | | Operating cycles | 15 000 | 15 000 | 15 000 | 15 000 | 15 000 | 15 000 | 15 000 | 15 000 |
| • Electrical (without maintenance) | | Operating cycles | 7 500 | 7 500 | 7 500 | 7500 | 7500 | 7500 | 7500 | 7500 |
| • 1000 V version, electrical (without maintenance) | | Oper. cycles | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| • 1150 V version, electrical (without maintenance) | | Oper. cycles | -- | -- | -- | -- | 500 | 500 | 500 | 500 |
| • Electrical (with maintenance)[5][6] | | Operating cycles | 10 000 | 10 000 | 10 000 | 10 000 | 15 000 | 15 000 | 15 000 | 15 000 |
| **Service life: Breaking capacity C** | | | | | | | | | | |
| • Mechanical (without maintenance) | | Operating cycles | -- | -- | -- | -- | 5 000 | 5 000 | 5 000 | 5 000 |
| • Mechanical (with maintenance)[5] | | Operating cycles | -- | -- | -- | -- | 10 000 | 10 000 | 10 000 | 10 000 |
| • Electrical (without maintenance) | | Operating cycles | -- | -- | -- | -- | 5 000 | 5 000 | 5 000 | 5 000 |
| • Electrical (with maintenance)[5] | | Operating cycles | -- | -- | -- | -- | 10 000 | 10 000 | 10 000 | 10 000 |
| **Switching frequency**[7] | | | | | | | | | | |
| • 690 V version | | 1/h | 60[8] | 60[8] | 60[8] | 60 | 60[8] | 60[8] | 60[8] | 60[8] |
| • 1000 V version | | 1/h | -- | -- | -- | 20 | 20 | 20 | 20 | 20 |
| • 1150 V version | | 1/h | -- | -- | -- | -- | 20 | 20 | 20 | 20 |
| **Minimum interval** between tripping operation by Electronic Trip Unit and next making operation of the circuit breaker (only with automatic mechanical resetting of the lockout device). Minimum interval between On-Off or Off-On switching operations. | | ms | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |

1) Use of trip units from -20 °C.
2) ETU76B with graphics display can be used up to max. 55 °C.
3) At breaking capacity H: 1600 A to 70 °C.
4) Make time through closing coil for synchronization purposes (short-time excited) 50 ms.
5) Maintenance means: Replace main contact elements and arc chutes (see Operating Manual).
6) Replacement of the main contact elements of circuit breakers size I with breaking capacity H is only possible at the factory.
7) Minimum interval time between 2 tripping operations.
8) 3-pole switching with breaking capacity N and S: 45/h.
9) Motorized operating mechanisms $U_{imp}$ = 1.2 kV

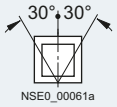
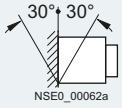
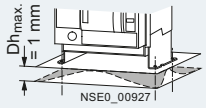
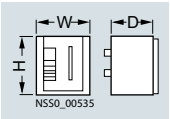
**Minimum order quantity (PS) or a multiple thereof can be ordered.**

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## General data

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Size** | | | **I** | | | | **II** | | | |
| **Type** | | | **... 3WL11 10** | **3WL11 12** | **3WL11 16** | **3WL11 20** | **3WL12 08** | **3WL12 10** | **3WL12 12** | **3WL12 16** |
| **Mounting position** | | |  and/or  | | | |  | | | |
| **Degree of protection** | | | IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover | | | | | | | |
| **Main conductor minimum cross-sections** | • Copper bars, bare | Unit(s) mm² | 1 × 60 × 10 | 2 × 40 × 10 | 2 × 50 × 10 | 3 × 50 × 10 | 1 × 50 × 10 | 1 × 60 × 10 | 2 × 40 × 10 | 2 × 50 × 10 |
| | • Copper bars, painted black | Unit(s) mm² | 1 × 60 × 10 | 2 × 40 × 10 | 2 × 50 × 10 | 3 × 50 × 10 | 1 × 50 × 10 | 1 × 60 × 10 | 2 × 40 × 10 | 2 × 50 × 10 |
| **Auxiliary conductors (Cu)** Max. number auxiliary conductors × cross-section (solid/stranded) | Standard connection = strain-relief clamp | | | | | | | | | |
| | • Without end sleeve | | 2 × 0.5 mm² (AWG 20) ... 2 × 1.5 mm² (AWG 16); 1 × 2.5 mm² (AWG 14) | | | | | | | |
| | • With end sleeve acc. to DIN 46228 Part 2 | | 1 × 0.5 mm² (AWG 20) ... 1 × 1.5 mm² (AWG 16) | | | | | | | |
| | • With twin end sleeve | | 2 × 0.5 mm² (AWG 20) ... 2 × 1.5 mm² (AWG 16) | | | | | | | |
| | Optional connection = tension spring | | | | | | | | | |
| | • Without end sleeve | | 2 × 0.5 mm² (AWG 20) ... 2 × 2.5 mm² (AWG 14) | | | | | | | |
| | • With end sleeve acc. to DIN 46228 Part 2 | | 2 × 0.5 mm² (AWG 20) ... 2 × 1.5 mm² (AWG 16) | | | | | | | |
| **Position signaling switches** | Tension spring terminals | | 1 × 0.5 mm² (AWG 20) ... 1 × 2.5 mm² (AWG 14) | | | | | | | |
| **Weights** 3-pole | • Fixed-mounted circuit breakers | kg | 43 | 43 | 43 | 43 | 56 | 56 | 56 | 56 |
| | • Withdrawable circuit breakers | kg | 45 | 45 | 45 | 45 | 60 | 60 | 60 | 60 |
| 4-pole | • Guide frames | kg | 25 | 25 | 25 | 25 | 31 | 31 | 31 | 31 |
| | • Fixed-mounted circuit breakers | kg | 50 | 50 | 50 | 50 | 67 | 67 | 67 | 67 |
| | • Withdrawable circuit breakers | kg | 54 | 54 | 54 | 54 | 72 | 72 | 72 | 72 |
| | • Guide frames | kg | 30 | 30 | 30 | 30 | 37 | 37 | 37 | 37 |
| **Dimensions 3/4-pole**  | | W mm | 320/410 | | | | 460/590 | | | |
| | Fixed-mounted | H mm | 434 | | | | 434 | | | |
| | | D mm | 291 | | | | 291 | | | |
| | Withdrawable | H mm | 465.5 | | | | 465.5 | | | |
| | | D mm | 471 | | | | 471 | | | |

| **CubicleBUS module** | **Number of modules per CubicleBUS** | **Max. continuous current per module from the CubicleBUS** | **Max. startup current per module from the CubicleBUS** |
|---|---|---|---|
| **ETU45B Electronic Trip Unit** | 1 | 120 mA | 2000 mA |
| **ETU76B Electronic Trip Unit** | 1 | 170 mA | 2000 mA |
| **Metering function PLUS** | 1 | 120 mA | 120 mA |
| **Breaker Status Sensor BSS** | 1 | 40 mA | 110 mA |
| **Communication module** | 1 | 125 mA | 280 mA |
| **ZSI module** | 1 | 50 mA | 125 mA |
| **Digital output modules with rotary coding switch, relay outputs** | 1-2 | 180 mA | 125 mA |
| **Digital output modules, configurable, relay outputs** | 1 | 180 mA | 125 mA |
| **Analog output modules** | 1-2 | 110 mA | 800 mA |
| **Digital input modules** | 1-2 | 30 mA | 125 mA |



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

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| Size | | | II | | | | III | | |
|---|---|---|---|---|---|---|---|---|---|
| **Type** | | | **3WL12 20** | **3WL12 25** | **3WL12 32** | **3WL12 40** | **3WL13 40** | **3WL13 50** | **3WL13 63** |
| **Number of poles** | | | 3-pole, 4-pole | | | | | | |
| **Rated current $I_n$** at 40 °C, at 50/60 Hz | | | | | | | | | |
| Main conductor | | A | 2000 | 2500 | 3200 | 4000 | 4000 | 5000 | 6300 |
| N conductor (only on 4-pole versions) | | A | 2000 | 2500 | 3200 | 4000 | 4000 | 5000 | 6300 |
| **Rated operational voltage $U_e$** at 50/60 Hz | | V AC | ... | ... | ... | ... | ... | ... | ... |
| (1000 V version, see page 1/49 "Options") | | | 690/1000 | 690/1000 | 690/1000 | 690/1000 | 690/1000 | 690/1000 | 690/1000 |
| **Rated insulation voltage $U_i$** | | V AC | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| **Rated impulse withstand voltage $U_{imp}$** | | | | | | | | | |
| • Main conducting paths | | kV | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| • Auxiliary circuits | | kV | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| • Control circuits[10] | | kV | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| **Isolating function acc. to EN 60947-2** | | | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Utilization category** | | | B | | | | | | |
| **Permissible ambient temperature** | | | | | | | | | |
| • During operation (in operation with LCD max. 55 °C)[1] | | °C | –40/+70 | –40/+70 | –40/+70 | –40/+70 | –40/+70 | –40/+70 | –40/+70 |
| • Storage | | °C | -40/+80 | -40/+80 | -40/+80 | -40/+80 | -40/+80 | -40/+80 | -40/+80 |
| **Permissible load for withdrawable versions**[2) 4)] | • Up to 55 °C (Cu, bare) | A | 2000 | 2500 | 3200 | 3950 | 4000 | 5000 | 5920 |
| | • Up to 60 °C (Cu, bare) | A | 2000 | 2500 | 3020 | 3810 | 4000 | 5000 | 5810 |
| | • Up to 70 °C (Cu black, painted) | A | 2000 | 2280 | 2870 | 3600 | 4000 | 5000 | 5500 |
| **Rated rotor operational voltage $U_{er}$** | | V | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| **Power loss at $I_n$** | | | | | | | | | |
| With three-phase symmetrical load | | | | | | | | | |
| • Fixed-mounted circuit breakers | | W | 180 | 270 | 410 | 750 | 520 | 630 | 900 |
| • Withdrawable circuit breakers | | W | 320 | 520 | 710 | 925 | 810 | 1050 | 1600 |
| **Switching times** | | | | | | | | | |
| • Make time | | ms | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| • Opening time | | ms | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| • Electrical make time (through closing coil)[5] | | ms | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| • Electrical opening time (through shunt release) | | ms | 73 | 73 | 73 | 73 | 73 | 73 | 73 |
| • Electrical opening time (instantaneous undervoltage release) | | ms | 73 | 73 | 73 | 73 | 73 | 73 | 73 |
| • Opening time due to ETU, instantaneous short-circuit release | | ms | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| **Service life: Breaking capacity N, S** | | | | | | | | | |
| • Mechanical (without maintenance) | | Operating cycles | 10000 | 10000 | 10000 | 10000 | -- | -- | -- |
| • Mechanical (with maintenance)[6] | | Operating cycles | 17500 | 17500 | 17500 | 17500 | -- | -- | -- |
| • Electrical (without maintenance) up to 690 V | | Operating cycles | 7500 | 7500 | 4000 | 2000 | -- | -- | -- |
| • 1000 V version, electrical (without maintenance) | | Operating cycles | -- | -- | -- | -- | -- | -- | -- |
| • 1150 V version, electrical[7] (without maintenance) | | Operating cycles | -- | -- | -- | -- | -- | -- | -- |
| • Electrical (with maintenance)[6] | | Operating cycles | 17500 | 17500 | 17500 | 17500 | -- | -- | -- |
| **Service life: Breaking capacity H** | | | | | | | | | |
| • Mechanical (without maintenance) | | Operating cycles | 10000 | 10000 | 10000 | 10000 | 5000 | 5000 | 5000 |
| • Mechanical (with maintenance)[6] | | Operating cycles | 15000 | 15000 | 15000 | 15000 | 10000 | 10000 | 10000 |
| • Electrical (without maintenance) up to 690 V | | Operating cycles | 7500 | 7500 | 4000 | 2000 | 2000 | 2000 | 2000 |
| • 1000 V version, electrical (without maintenance) | | Operating cycles | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| • 1150 V version, electrical[7] (without maintenance) | | Operating cycles | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
| • Electrical (with maintenance)[6] | | Operating cycles | 15000 | 15000 | 15000 | 15000 | 10000 | 10000 | 10000 |
| **Service life: Breaking capacity C** | | | | | | | | | |
| • Mechanical (without maintenance) | | Operating cycles | 5000 | 5000 | 5000 | -- | 5000 | 5000 | 5000 |
| • Mechanical (with maintenance)[6] | | Operating cycle | 10000 | 10000 | 10000 | -- | 10000 | 10000 | 10000 |
| • Electrical (without maintenance) up to 690 V | | Operating cycles | 5000 | 5000 | 4000 | -- | 1000 | 1000 | 1000 |
| • Electrical (without maintenance) up to 1150 V | | Operating cycles | -- | -- | -- | -- | -- | -- | -- |
| • Electrical (with maintenance) up to 690 V[6] | | Operating cycles | 10000 | 10000 | 8000 | -- | -- | -- | -- |
| **Switching frequency**[8)] | | | | | | | | | |
| • 690 V version | | 1/h | 60[9)] | 60[9)] | 60[9)] | 60[9)] | 60 | 60 | 60 |
| • 1000 V version | | 1/h | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| • 1150 V version[7] | | 1/h | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| **Minimum interval** between tripping operation by Electronic Trip Unit and next making operation of the circuit breaker (only with automatic mechanical resetting of the lockout device). | | ms | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Minimum interval between On-Off or Off-On switching operations. | | | | | | | | | |

1) Use of trip units from -20 °C.

2) 4000 A, size II in fixed-mounted version, 3-pole.

4) ETU76B with graphics display can be used up to max. 55 °C.

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

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

7) Size II and size III with order code "A15".

8) Minimum interval time between 2 tripping operations.

9) 3-pole switching with breaking capacity N and S: 45/h.

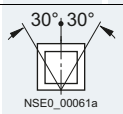
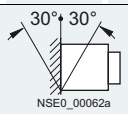
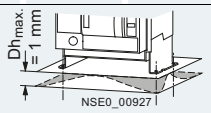
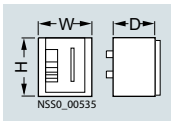
10) Motorized operating mechanism $U_{imp}$ = 1.2 kV

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## General data

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Size** | | | II | | | | III | | |
| **Type** | | | **3WL12 20** | **3WL12 25** | **3WL12 32** | **3WL12 40** | **3WL13 40** | **3WL13 50** | **3WL13 63** |
| **Mounting position** | | |   NSE0_00061a and/or   NSE0_00062a | | | |   NSE0_00927 | | |
| **Degree of protection** | | | IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover | | | | | | |
| **Main conductor minimum cross-sections** | • Copper bars, bare | Unit(s) mm² | 3 × 50 × 10 | 2 × 100 × 10 | 3 × 100 × 10 | 4 × 120 × 10 | 4 x 100 x 10 | 6 x 100 x 10 | 6 x 120 x 10 |
| | • Copper bars, painted black | Unit(s) mm² | 3 × 50 × 10 | 2 × 100 × 10 | 3 × 100 × 10 | 4 × 100 × 10[1] | 4 × 100 × 10 | 6 × 100 × 10 | 6 × 120 × 10 |
| **Auxiliary conductors (Cu)** Max. number of auxiliary conductors × cross-section (solid/stranded) | Standard connection = strain-relief clamp<br>• Without end sleeve<br>• With end sleeve acc. to DIN 46228 Part 2<br>• With twin end sleeve | | 2 × 0.5 mm² (AWG 20) ... 2 × 1.5 mm² (AWG 16); 1 × 2.5 mm² (AWG 14)<br>1 × 0.5 mm² (AWG 20) ... 1 × 1.5 mm² (AWG 16)<br>2 × 0.5 mm² (AWG 20) ... 2 × 1.5 mm² (AWG 16) | | | | | | |
| | Optional connection = tension spring<br>• Without end sleeve<br>• With end sleeve acc. to DIN 46228 Part 2 | | 2 × 0.5 mm² (AWG 20) ... 2 × 2.5 mm² (AWG 14)<br>2 × 0.5 mm² (AWG 20) ... 2 × 1.5 mm² (AWG 16) | | | | | | |
| **Position signaling switches** | Tension spring terminals | | 1 × 0.5 mm² (AWG 20) ... 1 × 2.5 mm² (AWG 14) | | | | | | |
| **Weights** 3-pole | • Fixed-mounted circuit breakers | kg | 56 | 59 | 64 | 85 | 82 | 82 | 90 |
| | • Withdrawable circuit breakers | kg | 60 | 63 | 68 | 121 | 88 | 88 | 96 |
| | • Guide frames | kg | 31 | 39 | 45 | 52 | 60 | 60 | 70 |
| 4-pole | • Fixed-mounted circuit breakers | kg | 67 | 71 | 77 | 103 | 99 | 99 | 108 |
| | • Withdrawable circuit breakers | kg | 72 | 76 | 82 | 146 | 106 | 106 | 108 |
| | • Guide frames | kg | 37 | 47 | 54 | 62 | 84 | 84 | 119 |
| **Dimensions 3/4-pole**   NSS0_00535 | Fixed-mounted | W mm | 460/590 | | | | 704/914 | | |
| | | H mm | 434 | | | | 434 | | |
| | | D mm | 291 | | | | 291 | | |
| | Withdrawable | H mm | 465.5 | | | | 465.5 | | |
| | | D mm | 471 | | | | 471 | | |

[1] Minimum main conductor cross-sections for 4-pole withdrawable circuit breakers:
4 x 120 x 10 mm



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

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### *Breaking capacity*

| Size | | I | | | | | II | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Type | | 3WL11 | | | | | 3WL12 | | | | | |
| Version | | (N) | (S) | (H) | 690 V + 20 % Z=A16 (H) | 1000 V Z=A05 (H) | (N) | (S) | (H) | 1000 V Z=A05 (H) | 1150 V Z=A15 (H) | (C) |
| **Breaking capacity** | | | | | | | | | | | | |
| **Rated operational voltage $U_e$ up to 415 V AC** | | | | | | | | | | | | |
| $I_{cu}$ | kA | 55 | 66 | 85 | 85 | 85 | 66 | 85 | 100 | 100 | 100 | 130 |
| $I_{cs}$ | kA | 55 | 66 | 85 | 85 | 85 | 66 | 85 | 100 | 100 | 100 | 130 |
| $I_{cm}$ | kA | 121 | 145 | 187 | 187 | 187 | 145 | 187 | 220 | 220 | 220 | 286 |
| **Rated operational voltage $U_e$ up to 500 V AC** | | | | | | | | | | | | |
| $I_{cu}$ | kA | 55 | 66 | 85 | 85 | 85 | 66 | 85 | 100 | 100 | 100 | 130 |
| $I_{cs}$ | kA | 55 | 66 | 85 | 85 | 85 | 66 | 85 | 100 | 100 | 100 | 130 |
| $I_{cm}$ | kA | 121 | 145 | 187 | 187 | 187 | 145 | 187 | 220 | 220 | 220 | 286 |
| **Rated operational voltage $U_e$ up to 690 V AC** | | | | | | | | | | | | |
| $I_{cu}$ | kA | 42 | 50 | 66 | 85 / 50[5] | 85 | 50 | 75 | 85 | 85 | 85 | 100 |
| $I_{cs}$ | kA | 42 | 50 | 66 | 85 / 50[5] | 85 | 50 | 75 | 85 | 85 | 85 | 100 |
| $I_{cm}$ | kA | 88 | 105 | 145 | 187 / 105[5] | 187 | 105 | 165 | 187 | 187 | 187 | 220 |
| **Rated operational voltage $U_e$ up to 1000 V AC** | | | | | | | | | | | | |
| $I_{cu}$ | kA | -- | -- | -- | -- | 50 | -- | -- | -- | 85 | 85 | -- |
| $I_{cs}$ | kA | -- | -- | -- | -- | 50 | -- | -- | -- | 85 | 85 | -- |
| $I_{cm}$ | kA | -- | -- | -- | -- | 105 | -- | -- | -- | 187 | 187 | -- |
| **Rated operational voltage $U_e$ up to 1150 V AC** | | | | | | | | | | | | |
| $I_{cu}$ | kA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 50 | -- |
| $I_{cs}$ | kA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 50 | -- |
| $I_{cm}$ | kA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 105 | -- |
| **Rated short-time withstand current $I_{cw}$** | | | | | | | | | | | | |
| **Rated short-time withstand current $I_{cw}$ at $U_e$ up to 500 V AC** | | | | | | | | | | | | |
| 0.5 s | kA | 55 | 66 | 85 | 85 | 85 | 66 | 85 | 100 | 100 | 100 | 100 |
| 1 s | kA | 50 | 66 | 85 | 85 | 85 | 66 | 85 | 85 | 85 | 85 | 100 |
| 2 s | kA | 35[1] / 45[2] | 45 | 70 | 70 | 70 | 66 | 66[3] / 85[4] | 66[3] / 85[4] | 66[3] / 85[4] | 66[3] / 85[4] | 85 |
| 3 s | kA | 30[1] / 35[2] | 35 | 60 | 60 | 60 | 55[3] / 66[4] | 55[3] / 75[4] | 55[3] / 75[4] | 55[3] / 75[4] | 55[3] / 75[4] | 75 |
| **Rated short-time withstand current $I_{cw}$ at $U_e$ up to 690 V AC** | | | | | | | | | | | | |
| 0.5 s | kA | 42 | 50 | 66 | 50[5] | 85 | 50 | 75 | 85 | 85 | 85 | 100 |
| 1 s | kA | 42 | 50 | 66 | 50[5] | 85 | 50 | 75 | 85 | 85 | 85 | 100 |
| 2 s | kA | 35[1] / 42[2] | 45 | 66 | 50[5] | 70 | 50 | 66[3] / 75[4] | 66[3] / 85[4] | 66[3] / 85[4] | 66[3] / 85[4] | 85 |
| 3 s | kA | 30[1] / 35[2] | 35 | 60 | 50[5] | 60 | 50 | 55[3] / 75[4] | 55[3] / 75[4] | 55[3] / 75[4] | 55[3] / 75[4] | 75 |
| **Rated short-time withstand current $I_{cw}$ at $U_e$ up to 1000 V AC** | | | | | | | | | | | | |
| 0.5 s | kA | -- | -- | -- | -- | 50 | -- | -- | -- | 85 | 85 | -- |
| 1 s | kA | -- | -- | -- | -- | 50 | -- | -- | -- | 85 | 85 | -- |
| 2 s | kA | -- | -- | -- | -- | 50 | -- | -- | -- | 66[3] / 85[4] | 66[3] / 85[4] | -- |
| 3 s | kA | -- | -- | -- | -- | 50 | -- | -- | -- | 55[3] / 75[4] | 55[3] / 75[4] | -- |
| **Rated short-time withstand current $I_{cw}$ at $U_e$ up to 1150 V AC** | | | | | | | | | | | | |
| 0.5 s | kA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 50 | -- |
| 1 s | kA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 50 | -- |
| 2 s | kA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 50 | -- |
| 3 s | kA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 50 | -- |
| **Rated conditional short-circuit current $I_{cc}$ (0.5 s) of the non-automatic air circuit breakers[6]** | | | | | | | | | | | | |
| Up to 500 V AC | kA | 55 | 66 | 85 | 85 | 85 | 66 | 85 | 100 | 100 | 100 | 130 |
| Up to 690 V AC | kA | 42 | 50 | 66 | 50[2] | 85 | 50 | 75 | 85 | 85 | 85 | 100 |
| Up to 1000 V AC | kA | -- | -- | -- | -- | 50 | -- | -- | -- | 85 | 85 | -- |
| Up to 1150 V AC | kA | -- | -- | -- | -- | -- | -- | -- | -- | -- | 50 | -- |

(N) Circuit breakers with ECO breaking capacity N
(S) Circuit breakers with standard breaking capacity S
(H) Circuit breakers with high breaking capacity H
(C) Circuit breakers with very high breaking capacity C
(DC) Non-automatic air circuit breakers with DC breaking capacity

These breaking capacities are indicated in the corresponding tables by the symbols shown on orange backgrounds.

Note:

- For further technical specifications, see the Configuration Manual "Air Circuit Breakers" (www.siemens.com/lowvoltage/manuals).

| Abbreviations* (functions) | English long text | Explanation |
|---|---|---|
| L | Long Time Delay | Overload protection |
| S | Short Time Delay | Short-circuit protection (short-time delayed) |
| I | Instantaneous | Short-circuit protection (instantaneous) |
| N | Neutral Protection | Neutral conductor protection |
| G | Ground Fault | Ground-fault protection |

* Designations according to IEC 60947-2, Annex K.

1) Size I with $I_{n\,max} \leq 1250$ A.
2) Size I with $I_{n\,max} \geq 1600$ A.
3) Size II with $I_{n\,max} \leq 2500$ A.
4) Size II with $I_{n\,max} \geq 3200$ A.
5) Values apply for 690 V + 20 %
6) In addition the values for rated short-time withstand current $I_{cw}$ apply

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## General data

| Size | | III | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Type** | | **3WL13** | | | | | | |
| **Version** | | (H) | **1000 V Z=A05** (H) | **1150 V Z=A15** (H) | **3-pole** (C) | **4-pole** (C) | **3-pole 1000 V Z=A05** (C) | **4-pole 1000 V Z=A05** (C) |
| **Breaking capacity** | | | | | | | | |
| **Rated operational voltage $U_e$ up to 415 V AC** | | | | | | | | |
| $I_{cu}$ | kA | 100 | 100 | 100 | 150 | 130 | 150 | 130 |
| $I_{cs}$ | kA | 100 | 100 | 100 | 150 | 130 | 150 | 130 |
| $I_{cm}$ | kA | 220 | 220 | 220 | 330 | 286 | 330 | 286 |
| **Rated operational voltage $U_e$ up to 500 V AC** | | | | | | | | |
| $I_{cu}$ | kA | 100 | 100 | 100 | 150 | 130 | 150 | 130 |
| $I_{cs}$ | kA | 100 | 100 | 100 | 150 | 130 | 150 | 130 |
| $I_{cm}$ | kA | 220 | 220 | 220 | 330 | 286 | 330 | 286 |
| **Rated operational voltage $U_e$ up to 690 V AC** | | | | | | | | |
| $I_{cu}$ | kA | 85 | 100 | 100 | 150 | 130 | 150 | 130 |
| $I_{cs}$ | kA | 85 | 100 | 100 | 150 | 130 | 150 | 130 |
| $I_{cm}$ | kA | 187 | 220 | 220 | 330 | 286 | 330 | 286 |
| **Rated operational voltage $U_e$ up to 1000 V AC** | | | | | | | | |
| $I_{cu}$ | kA | -- | 85 | 85 | -- | -- | 125 | 125 |
| $I_{cs}$ | kA | -- | 85 | 85 | -- | -- | 125 | 125 |
| $I_{cm}$ | kA | -- | 187 | 187 | -- | -- | 275 | 275 |
| **Rated operational voltage $U_e$ up to 1150 V AC** | | | | | | | | |
| $I_{cu}$ | kA | -- | -- | 70 | -- | -- | -- | -- |
| $I_{cs}$ | kA | -- | -- | 70 | -- | -- | -- | -- |
| $I_{cm}$ | kA | -- | -- | 154 | -- | -- | -- | -- |
| **Rated short-time withstand current $I_{cw}$** | | | | | | | | |
| **Rated short-time withstand current $I_{cw}$ at $U_e$ up to 500 V AC** | | | | | | | | |
| 0.5 s | kA | 100 | 100 | 100 | 130 | 120 | 130 | 120 |
| 1 s | kA | 100 | 100 | 100 | 130 | 120 | 130 | 120 |
| 2 s | kA | 100 | 100 | 100 | 130 | 120 | 130 | 120 |
| 3 s | kA | 100 | 100 | 100 | 130 | 120 | 130 | 120 |
| **Rated short-time withstand current $I_{cw}$ at $U_e$ up to 690 V AC** | | | | | | | | |
| 0.5 s | kA | 85 | 100 | 100 | 130 | 120 | 130 | 120 |
| 1 s | kA | 85 | 100 | 100 | 130 | 120 | 130 | 120 |
| 2 s | kA | 85 | 100 | 100 | 130 | 120 | 130 | 120 |
| 3 s | kA | 85 | 100 | 100 | 130 | 120 | 130 | 120 |
| **Rated short-time withstand current $I_{cw}$ at $U_e$ up to 1000 V AC** | | | | | | | | |
| 0.5 s | kA | -- | 85 | 85 | -- | -- | 125 | 120 |
| 1 s | kA | -- | 85 | 85 | -- | -- | 125 | 120 |
| 2 s | kA | -- | 85 | 85 | -- | -- | 125 | 120 |
| 3 s | kA | -- | 85 | 85 | -- | -- | 125 | 120 |
| **Rated short-time withstand current $I_{cw}$ at $U_e$ up to 1150 V AC** | | | | | | | | |
| 0.5 s | kA | -- | -- | 70 | -- | -- | -- | -- |
| 1 s | kA | -- | -- | 70 | -- | -- | -- | -- |
| 2 s | kA | -- | -- | 70 | -- | -- | -- | -- |
| 3 s | kA | -- | -- | 70 | -- | -- | -- | -- |
| **Rated conditional short-circuit current $I_{cc}$ (0.5 s) of the non-automatic air circuit breakers[6)]** | | | | | | | | |
| Up to 500 V AC | kA | 100 | 100 | 100 | 130 | 120 | -- | -- |
| Up to 690 V AC | kA | 85 | 100 | 100 | 130 | 120 | -- | -- |
| Up to 1000 V AC | kA | -- | 85 | 85 | -- | -- | 125 | 120 |
| Up to 1150 V AC | kA | -- | 70 | 70 | -- | -- | -- | -- |

(N) Circuit breakers with ECO breaking capacity N
(S) Circuit breakers with standard breaking capacity S
(H) Circuit breakers with high breaking capacity H
(C) Circuit breakers with very high breaking capacity C
(DC) Non-automatic air circuit breakers with DC breaking capacity

These breaking capacities are indicated in the corresponding tables by the symbols shown on orange backgrounds.

Note:

- For further technical specifications, see the Configuration Manual "Air Circuit Breakers" (www.siemens.com/lowvoltage/manuals).

| Abbreviations* (functions) | English long text | Explanation |
|---|---|---|
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| S | Short Time Delay | Short-circuit protection (short-time delayed) |
| I | Instantaneous | Short-circuit protection (instantaneous) |
| N | Neutral Protection | Neutral conductor protection |
| G | Ground Fault | Ground-fault protection |

* Designations according to IEC 60947-2, Annex K.

1) Size I with $I_{n\,max} \leq 1250$ A.
2) Size I with $I_{n\,max} \geq 1600$ A.
3) Size II with $I_{n\,max} \leq 2500$ A.
4) Size II with $I_{n\,max} \geq 3200$ A.
5) Values apply for 690 V + 20 %
6) In addition the values for rated short-time withstand current $I_{cw}$ apply



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

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| | | | | |
|---|---|---|---|---|
| **Size** | | | | **I to III** |
| **Type** | | | | **3WL1** |
| **Manual operating mechanism with mechanical closing** | | | | |
| **Switching on/ Charging the energy store** | Max. force required to operate the hand lever<br>Required number of strokes on the hand lever | | N | ≤ 230<br>9 |
| **Manual operating mechanism with mechanical and electrical closing** | | | | |
| **Charging the energy store** | | | | |
| **Closing coil (CC)** | • Primary operating range | | | 0.85 ... 1.1 × $U_s$ |
| | • Extended operating range for battery operation | At 24 V DC, 48 V DC<br>60 V DC, 110 V DC<br>220 V DC | | 0.7 ... 1.26 × $U_s$ |
| | • Rated control supply voltage $U_s$ | 50/60 Hz AC<br>DC | V<br>V | 110 ... 127; 208 ... 240<br>24; 30; 48; 60; 110 ... 125; 220 ... 250 |
| | • Power consumption | AC/DC | VA/W | 15/15 |
| | • Min. command duration at $U_s$ for the closing coil | | ms | 60 |
| | • Short-circuit protection<br>Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic | | | 1 A TDz (slow)/1 A |
| **Manual/motorized operating mechanism with mechanical and electrical closing** | | | | |
| **Manual operating mechanism** | | | | For data, see above. |
| **Motor** | • Primary operating range | | | 0.85 ... 1.1 × $U_s$ |
| | • Extended operating range for battery operation | At 24 V DC, 48 V DC<br>60 V DC, 110 V DC<br>220 V DC | | 0.7 ... 1.26 × $U_s$ |
| | • Power consumption of motor | AC/DC | VA/W | 135/135 |
| | • Time required to charge the spring energy store at 1 × $U_s$ | | s | ≤ 10 |
| **Closing coil** | | | | For data, see above. |
| **For motor and closing coil** | • Short-circuit protection<br>Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic;<br>Motor and closing coil for same rated control supply voltages | | | 6 A TDz (slow)/2 A |
| | • Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic (for different rated control supply voltages) | At $U_s$ = 24 ... 30 V<br>At $U_s$ = 48 ... 60 V<br>At $U_s$ = 110 ... 125 V DC/ 110 ... 127 V AC<br>At $U_s$ = 220 ... 250 V DC/ 208 ... 240 V AC | | 6 A<br>6 A<br>2 A<br>2 A |
| **Signals of the Electronic Trip Unit** | | | | |
| **Measuring accuracy of the Electronic Trip Unit** | | | | Protection functions acc. to EN 60947;<br>Current indication ≤ 10 %;<br>Metering function for base quantities ≤ 1 %;<br>Metering function for derived quantities ≤ 4 % |
| **Auxiliary releases** | | | | |
| **Undervoltage releases UVR (F3) and UVR-$t_d$ (F4)** | • Response values | Pickup<br><br>Dropout | | ≥ 0.85 × $U_s$<br>(circuit breaker can be closed)<br>0.35 ... 0.7× $U_s$<br>(circuit breaker is opened) |
| | • Primary operating range | | | 0.85 ... 1.1 |
| | • Extended operating range for battery operation | At 24 V DC, 30 V DC,<br>48 V DC, 110 V DC,<br>220 V DC | | 0.85 ... 1.26 |
| | • Rated control supply voltage $U_s$ | Instantaneous<br>50/60 Hz AC<br>DC<br><br>Delayed<br>50/60 Hz AC<br>DC | <br>V<br>V<br><br><br>V<br>V | <br>110 ... 127/208 ... 240/380 ... 415<br>24/30/48/60/110 ... 125/220 ... 250[1)]<br><br><br>110 ... 127; 208 ... 240; 380 ... 415<br>48; 110 ... 125; 220 ... 250 |
| | • Power consumption (pickup/uninterrupted duty) | AC<br>DC | VA<br>W | 20/5<br>20/5 |
| | • Opening time of the circuit breaker at $U_s$ = 0<br>- Version UVR (F3)<br>Without delay<br>With delay<br>- Version UVR-$t_d$ (F4)<br>With delay, $t_d$ = 0.2 to 3.2 s<br>Reset through additional NC contact – direct tripping | | ms<br><br>ms<br>ms<br><br>s<br>ms | 200<br><br>73<br>200<br><br>0.2 ... 3.2<br>≤ 100 |
| | • Short-circuit protection<br>Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic | | | 1 A TDz (slow)/1 A |

1) 24 V and 30 V only with undervoltage release UVR (F3).

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## General data

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Size** | | | | | | **I to III** | | |
| **Type** | | | | | | **3WL1** | | |
| **Auxiliary releases** | | | | | | | | |
| **Shunt release (ST) (F1, F2)** | • For continuous command (100 % OP), locks out on momentary-contact commands | - Response value | Pickup | | | > 0.7 × $U_s$ (circuit breaker is tripped) | | |
| | | - Primary operating range | | | | 0.7 ... 1.1 × $U_s$ | | |
| | | - Extended operating range for battery operation | At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC | | | 0.7 ... 1.26 × $U_s$ | | |
| | | - Rated control supply voltage $U_s$ | 50/60 Hz AC<br>DC | | V<br>V | 110 ... 127; 208 ... 240<br>24; 30; 48; 60; 110 ... 125; 220 ... 250 | | |
| | | - Power consumption | AC/DC | | VA/W | 15/15 | | |
| | | - Min. command duration at $U_s$ | | | ms | 60 | | |
| | | - Opening time of the circuit breaker at $U_s$ = 100 % | At AC/DC | | ms | 80 | | |
| | | - Short-circuit protection<br>Smallest permissible DIAZED fuse (operational class gL)/automatic circuit breaker with C characteristic | | | | 1 A TDz (slow)/1 A | | |
| | 5 % ON period | - Response value | Pickup | | | > 0.7 × $U_s$ (circuit breaker is tripped) | | |
| | | - Primary operating range | | | | 0.7 ... 1.1 × $U_s$ | | |
| | | - Extended operating range for battery operation | At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC | | | 0.7 ... 1.26 × $U_s$ | | |
| | | - Rated control supply voltage $U_s$ | 50/60 Hz AC<br>DC | | V<br>V | 110 ... 127; 208 ... 240<br>24; 48; 110 ... 125; 220 ... 250 | | |
| | | - Power consumption | AC/DC | | VA/W | 15/15 | | |
| | | - Min. command duration at $U_s$ | | | ms | 25 | | |
| | | - Opening time of the circuit breaker at $U_s$ = 100 % | At AC/DC | | ms | 50 | | |
| | | - Short-circuit protection<br>Smallest permissible DIAZED fuse (operational class gL)/automatic circuit breaker with C characteristic | | | | 1 A TDz (slow)/1 A | | |
| | • With spring energy store consisting of shunt release and capacitor storage device | - Rated control supply voltage $U_s$ | 50/60 Hz AC<br>DC | | V<br>V | 110; 230<br>110; 220 | | |
| | | - Primary operating range | | | | 0.85 ... 1.1 × $U_s$ | | |
| | | - Power consumption | AC/DC | | VA/W | 1/1 | | |
| | | - Storage time at $U_s$/ Recharging time at $U_s$ | | | | max. 5 min/min. 5 s | | |
| | | - Opening time of the circuit breaker, short-circuit protection | | | | As with "for continuous command" | | |
| **Remote reset solenoid for mechanical tripped indicator (F7)** | | | | | | | | |
| **Remote reset solenoid for mechanical tripped indicator (F7)** | | - Primary operating range | | | | 0.85 ... 1.1 × $U_s$ | | |
| | | - Extended operating range for battery operation | At 24 V DC, 48 V DC 110 V DC 220 V DC | | | 0.7 ... 1.26 × $U_s$ | | |
| | | - Power consumption | AC/DC | | VA/W | 50/50 | | |
| | | - Min. command duration at $U_s$ for the remote reset solenoid | | | ms | 60 | | |
| | | - Short-circuit protection<br>Smallest permissible DIAZED fuse (operational class gL)/automatic circuit breaker with C characteristic | | | | 2 A TDz (slow)/1 A at 24 V DC and 48 V DC,<br>1 A TDz (slow)/1 A at 110 V and 208 ... 250 V | | |
| **Contact position-driven auxiliary switches (S1, S2, S3, S4, S7, S8)** | | | | | | | | |
| **Rated insulation voltage $U_i$** | | | | | V AC/DC | 500 | | |
| **Rated operational voltage $U_e$** | | | | | V AC/DC | 500 | | |
| **Rated impulse withstand voltage $U_{imp}$** | | | | | kV | 4 | | |
| **Breaking capacity** | • Alternating current 50/60 Hz | - Rated operational voltage $U_e$ | | | V | 24 ... 230 | 380/400 | |
| | | - Rated operational current<br>$I_e$/AC-12<br>$I_e$/AC-15 | | | <br>A<br>A | <br>10<br>4 | <br>10<br>3 | |
| | • Direct current | - Rated operational voltage $U_e$ | | | V | 24 | 48 | 110 | 220 |
| | | - Rated operational current<br>$I_e$/DC-12<br>$I_e$/DC-13 | | | <br>A<br>A | <br>10<br>8 | <br>8<br>4 | <br>3.5<br>1.2 | <br>1<br>0.4 |
| **Short-circuit protection** | • Largest permissible DIAZED fuse (operational class gL)<br>• Largest permissible miniature circuit breaker with C characteristic | | | | | 10 A TDz, 10 A Dz<br>10 A | | |



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

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| | | | | | | |
|---|---|---|---|---|---|---|
| **Size** | | | | **I to III** | | |
| **Type** | | | | **3WL1** | | |
| **Ready-to-close signaling switches (S20) (acc. to DIN VDE 0630)** | | | | | | |
| **Breaking capacity** | • Alternating current | - Rated operational voltage $U_e$<br>- Rated operational current $I_e$ | V<br>A | 250<br>8 | | |
| | • Direct current | - Rated operational voltage $U_e$<br>- Rated operational current $I_e$ | V<br>A | 125<br>0.4 | 250<br>0.2 | |
| **Short-circuit protection** | Largest permissible DIAZED fuse (operational class gL) | | | 2 A Dz (quick) | | |
| **Tripped signaling switches (S24) and signaling switches for auxiliary releases (S22, S23) (acc. to DIN VDE 0630)** | | | | | | |
| **Breaking capacity** | • Alternating current | - Rated operational voltage $U_e$<br>- Rated operational current $I_e$/AC-12 | V<br>A | 250<br>8 | | |
| | • Direct current | - Rated operational voltage $U_e$<br>- Rated operational current $I_e$/DC-12 | V<br>A | 24<br>6 | 125<br>0.4 | 250<br>0.2 |
| **Short-circuit protection** | Largest permissible DIAZED fuse (operational class gL) | | | 6 A Dz (quick) | | |
| **Tripped signaling switch** | Signal duration after tripping | | | Until manual or electrical remote reset (option) | | |
| **Position signaling switches on guide frame** | | | | | | |
| **Type of contact** | • Signal: | - "Circuit breaker in connected position"<br>- "Circuit breaker in test position"<br>- "Circuit breaker in disconnected position" | | 3 CO<br>2 CO<br>1 CO | or | 1 CO<br>1 CO<br>1 CO |
| **Rated insulation voltage $U_i$** | | 50/60 Hz AC<br>DC | V<br>V | 440<br>250 | | |
| **Rated operational voltage $U_e$** | | | V | 250 | | |
| **Rated impulse withstand voltage $U_{imp}$** | | | kV | 4 | | |
| **Breaking capacity** | • Rated operational current $I_e$ | - $I_e$/AC-12<br>- $I_e$/AC-15<br>- $I_e$/DC-12<br>- $I_e$/DC-13<br>- A 300 (AC)<br>- R 300 (DC) | | 24 V 10 A, 110/127 V 10 A, 220/240 V 10 A, 320/440 V 10 A<br>220/240 V 4 A, 320/440 V 3 A,<br>24 V 10 A, 48 V 2.5 A, 220/240 V 0.2 A,<br>24 V 3.0 A, 220/240 V 0.1 A<br>120 V 6 A, 240 V 3 A<br>125 V 0.22 A, 250 V 0.11 A | | |
| **Short-circuit protection** | • Largest permissible DIAZED fuse (operational class gL)<br>• Largest permissible miniature circuit breaker with C characteristic | | | 8 A TDz (slow)<br>8 A TDz (slow) | | |

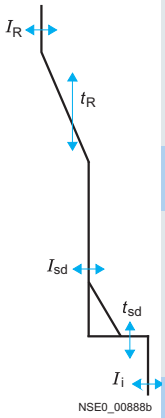
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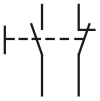
## General data

| Protection functions<br>Parameterization by | | ETU15B<br>D | ETU25B<br>D | ETU27B<br>D & S |
|---|---|---|---|---|
| **Function overview of the electronic trip system** | | | | |
| | **Overload protection** | ✓ | ✓ | ✓ |
| | Function can be switched on/off | -- | -- | -- |
| | Setting range $I_R = I_n \times$ ... | 0.5-0.55-0.6-0.65-0.7-0.75-0.8-0.85-0.9-1 | 0.4-0.45-0.5-0.55-0.6-0.65-0.7-0.8-0.9-1 | 0.4-0.45-0.5-0.55-0.6-0.65-0.7-0.8-0.9-1 |
| L | Switchable overload protection ($I^2t$- or $I^4t$-dependent function) | -- | -- | -- |
| | Setting range for time-lag class $t_R$ at $I^2t$ | 10 s fixed | 10 s fixed | 10 s fixed |
| | Setting range for time-lag class $t_R$ at $I^4t$ | -- | -- | -- |
| | Thermal image can be switched on/off | -- | -- | -- |
| | Phase failure sensitivity | -- | At $t_{sd}$ = 20 ms (M) | At $t_{sd}$ = 20 ms (M) |
| N | **N conductor protection** | -- | -- | ✓ |
| | Function can be switched on/off | -- | -- | ✓ |
| | N conductor setting range $I_N = I_n \times$ ... | -- | -- | 1 |
| | **Short-time delayed short-circuit protection** | -- | ✓ | ✓ |
| | Function can be switched on/off | -- | -- | -- |
| | Setting range $I_{sd} = I_n \times$ ... | -- | 1.25-1.5-2-2.5-3-4-6-8-10-12 | 1.25-1.5-2-2.5-3-4-6-8-10-12 |
| S | Setting range of delay time $t_{sd}$ | -- | 0-M-100-200-300-400 ms | 0-M-100-200-300-400 ms |
| | Switchable short-time delayed short-circuit protection ($I^2t$-dependent function) | -- | -- | -- |
| | Setting range of delay time $t_{sd}$ at $I^2t$ | -- | -- | -- |
| | ZSI function | -- | -- | -- |
| I | **Instantaneous short-circuit protection** | ✓ | ✓ | ✓ |
| | Function can be switched on/off | -- | -- | -- |
| | Setting range $I_i = I_n \times$ ... | 2-3-4-5-6-7-8 | Fixed for $I_i \geq 20 \times I_n$, max. 50 kA | Fixed for $I_i \geq 20 \times I_n$, max. 50 kA |
| | **Ground-fault protection** | -- | -- | ✓ permanently installed |
| | Tripping and alarm functions | -- | -- | -- |
| | Tripping function can be switched on/off | -- | -- | ✓ |
| | Alarm function can be switched on/off | -- | -- | -- |
| | Detection of the ground-fault current through summation current formation with internal or external N conductor transformer | -- | -- | ✓ |
| G | Detection of ground-fault current through external current transformer | -- | -- | -- |
| | Setting range of the operating current $I_g$ for tripping | -- | -- | A-B-C-D-E |
| | Setting range of the operating current $I_g$ for alarm | -- | -- | -- |
| | Setting range of the delay time $t_g$ | -- | -- | 100-200-300-400-500 ms |
| | Switchable ground-fault characteristic ($I^2t$-dependent function) | -- | -- | -- |
| | Setting range of delay time $t_g$ at $I^2t$ | -- | -- | -- |
| | ZSI-G function | -- | -- | -- |
| **Parameter set changeover** | | | | |
| | Switchable between parameter set A and B | -- | -- | -- |
| **LCD** | | | | |
| | Alphanumeric LCD (4-line) | -- | -- | -- |
| | Graphical LCD (24 V, external power supply required) | -- | -- | -- |
| **Self-monitoring / communication** | | | | |
| | Watchdog-monitored | ✓ | ✓ | ✓ |
| | Communication-capable | -- | -- | -- |
| **Metering function** | | | | |
| | Metering capability with metering function *Plus* | -- | -- | -- |
| **LED display** | | | | |
| | Electronic Trip Unit active | ✓ | ✓ | ✓ |
| | Alarm | ✓ | ✓ | ✓ |
| | ETU fault | ✓ | ✓ | ✓ |
| | L tripping operation | -- | ✓ | ✓ |
| | S tripping operation | -- | ✓ | ✓ |
| | I tripping operation | -- | ✓ | ✓ |
| | N tripping operation | -- | -- | ✓ |
| | G tripping operation | -- | -- | ✓ |
| | G alarm | -- | -- | -- |
| | Tripping operation as a result of extended protection function | -- | -- | -- |
| | Communication | -- | -- | -- |
| **Signals from signaling switches with external Cubicle**BUS **modules (relays)** | | | | |
| | Overload warning | -- | -- | -- |
| | Load shedding, load absorbing | -- | -- | -- |
| | Leading signal overload trip 200 ms | -- | -- | -- |
| | Temperature alarm | -- | -- | -- |
| | Phase unbalance | -- | -- | -- |
| | Instantaneous short-circuit trip | -- | -- | -- |
| | Short-time delayed short-circuit trip | -- | -- | -- |
| | Overload trip | -- | -- | -- |
| | Neutral conductor trip | -- | -- | -- |
| | Ground-fault protection trip | -- | -- | -- |
| | Ground-fault alarm | -- | -- | -- |
| | Auxiliary relay | -- | -- | -- |
| | ETU fault | -- | -- | -- |



NSE0_00888b


NSE0_00890


NSE0_00891

Delay time figures given in ms.
M = Motor protection, corresponds to 20 ms.
D = Rotary coding switch
D & S = Rotary coding and slide switch
K = Communication
M/K = Menu/Communication

✓ Available.
-- Not available.
❑ optional.

For setting range of the operating current $I_g$, see page 1/19.



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

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| Protection functions<br>Parameterization by | ETU45B<br>D & S | ETU76B<br>M/K |
|---|---|---|
| **Function overview of the electronic trip system** | | |
| **Overload protection**<br>Function can be switched on/off | ✓<br>-- | ✓<br>✓ |
| Setting range $I_R = I_n \times ...$ | 0.4-0.45-0.5-0.55-0.6-0.65-0.7-0.8-0.9-1 | 0.4 ... 1 |
| Switchable overload protection ($I^2t$ or $I^4t$-dependent function) | ✓ | ✓ |
| Setting range for time-lag class $t_R$ at $I^2t$ | 2-3.5-5.5-8-10-14-17-21-25-30 s | 2 ... 30 s |
| Setting range for time-lag class $t_R$ at $I^4t$ | 1-2-3-4-5 s | 1 ... 5 s |
| Thermal image can be switched on/off | ✓ | ✓ |
| Phase failure sensitivity | At $t_{sd}$ = 20 ms (M) | ✓ (on/off) |
| **N conductor protection** | ✓ | ✓ |
| Function can be switched on/off | ✓ | ✓ |
| N conductor setting range $I_N = I_n \times ...$ | 0.5 ... 1 | 0.2 ... 2 |
| **Short-time delayed short-circuit protection** | ✓ | ✓ |
| Function can be switched on/off | ✓ | ✓ |
| Setting range $I_{sd} = I_n \times ...$ | 1.25-1.5-2-2.5-3-4-6-8-10-12 | 1.25 × $I_n$ ... 0.8 × $I_{cw}$ |
| Setting range of delay time $t_{sd}$ | M-100-200-300-400 ms | M-80 ... 4000 ms |
| Switchable short-time delayed short-circuit protection ($I^2t$-dependent function) | ✓ | ✓ |
| Setting range of delay time $t_{sd}$ at $I^2t$ | 100-200-300-400 ms | 100 ... 400 ms |
| ZSI function | By **Cubicle**BUS module | By **Cubicle**BUS module |
| **Instantaneous short-circuit protection** | ✓ | ✓ |
| Function can be switched on/off | ✓ | ✓ |
| Setting range $I_i = I_n \times ...$ | 1.5-2.2-3-4-6-8-10-12-0.8 x $I_{cs}$ | 1.5 × $I_n$ ... 0.8 × $I_{cs}$ |
| **Ground-fault protection** | ❑ Module can be retrofitted | ❑ Module can be retrofitted |
| Tripping and alarm functions | ✓ | ✓ |
| Tripping function can be switched on/off | ✓ | ✓ |
| Alarm function can be switched on/off | -- | ✓ |
| Detection of ground-fault current through summation current formation with internal or external N conductor transformer | ✓ | ✓ |
| Detection of ground-fault current through external current transformer | ✓ | ✓ |
| Setting range of the operating current $I_g$ for tripping | A-B-C-D-E | A ... E |
| Setting range of the operating current $I_g$ for alarm | A-B-C-D-E | A ... E |
| Setting range of the delay time $t_g$ | 100-200-300-400-500 ms | 100 ... 500 ms |
| Switchable ground-fault characteristic ($I^2t$-dependent function) | ✓ | ✓ |
| Setting range of delay time $t_g$ at $I^2t$ | 100-200-300-400-500 ms | 100 ... 500 ms |
| ZSI-G function | By **Cubicle**BUS module | By **Cubicle**BUS module |
| **Parameter set changeover** | | |
| Switchable between parameter set A and B | -- | ✓ |
| **LCD** | | |
| Alphanumeric LCD (4-line) | ❑ | -- |
| Graphical LCD (24 V, external power supply required) | -- | ✓ |
| **Self-monitoring / communication** | | |
| Watchdog-monitored | ✓ | ✓ |
| Communication-capable | ✓ | ✓ |
| **Metering function** | | |
| Metering capability with metering function *Plus* | ✓ | ✓ |
| **LED display** | | |
| Electronic Trip Unit active | ✓ | ✓ |
| Alarm | ✓ | ✓ |
| ETU fault | ✓ | ✓ |
| L tripping operation | ✓ | ✓ |
| S tripping operation | ✓ | ✓ |
| I tripping operation | ✓ | ✓ |
| N tripping operation | ✓ | ✓ |
| G tripping operation | ✓ (Only with ground-fault protection module) | ✓ (Only with ground-fault protection module) |
| G alarm | ✓ (Only with ground-fault protection module) | ✓ (Only with ground-fault protection module) |
| Tripping operation as a result of extended protection functions | ✓ | ✓ |
| Communication | ✓ | ✓ |
| **Signals from signaling switches with external Cubicle**BUS **modules (relays)** | | |
| Overload warning | ✓ | ✓ |
| Load shedding, load absorbing | ✓ | ✓ |
| Leading signal overload trip 200 ms | ✓ | ✓ |
| Temperature alarm | ✓ | ✓ |
| Phase unbalance | ✓ | ✓ |
| Instantaneous short-circuit trip | ✓ | ✓ |
| Short-time delayed short-circuit trip | ✓ | ✓ |
| Overload trip | ✓ | ✓ |
| Neutral conductor trip | ✓ | ✓ |
| Ground-fault protection trip | ✓ (Only with ground-fault protection module) | ✓ (Only with ground-fault protection module) |
| Ground-fault alarm | ✓ (Only with ground-fault protection module) | ✓ (Only with ground-fault protection module) |
| Auxiliary relay | ✓ | ✓ |
| ETU fault | ✓ | ✓ |

**Setting range of the operating current $I_g$**

| | Size I and size II | Size III |
|---|---|---|
| A | 100 A | 400 A |
| B | 300 A | 600 A |
| C | 600 A | 800 A |
| D | 900 A | 1000 A |
| E | 1200 A | 1200 A |

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

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

Legend, see page 1/18.

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

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## 3-pole, fixed-mounted versions

### Selection and ordering data

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N (N) — Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Horizontal main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-2□□62-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□62-□□□□** | | 1 | 1 unit | 1CA |
| **Vertical main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-2□□61-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-2□□61-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[2]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI[6] | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[3] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[4] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[3][5] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[3][5] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[3][5] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, see page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65.

4) Current transformers for protection of the N conductor are to be ordered separately, page 1/65.

5) ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), see page 1/65.

6) ETU15B cannot be used with 3WL1 circuit breakers, size III.



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | **$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N** (N) Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Front main circuit connection, single hole** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□63-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□63-□□□□** | | 1 | 1 unit | 1CA |
| **Front main circuit connection, double hole** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-2□□64-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□64-□□□□** | | 1 | 1 unit | 1CA |

| **Options** | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[2]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI[6] | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[3] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[4] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[3][5] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[3][5] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[3][5] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, see page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65.

4) Current transformers for protection of the N conductor are to be ordered separately, page 1/65.

5) ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

6) ETU15B cannot be used with 3WL1 circuit breakers, size III.

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## 3-pole, fixed-mounted versions

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 66/85 kA at 500 V, standard breaking capacity S (S) — Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Horizontal main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-3□□62-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□62-□□□□** | | 1 | 1 unit | 1CA |
| **Vertical main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-3□□61-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-3□□61-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[2]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI[6] | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[3] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[4] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[3)5)] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[3)5)] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[3)5)] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, see page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65.

4) Current transformers for protection of the N conductor are to be ordered separately, page 1/65.

5) ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

6) ETU15B cannot be used with 3WL1 circuit breakers, size III.



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 66/85 kA at 500 V, standard breaking capacity S (S) | | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | | |
| | A | A | kA | d | | | | | |
| **Front main circuit connection, single hole** | | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□63-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□63-□□□□** | | 1 | 1 unit | 1CA |
| **Front main circuit connection, double hole** | | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-3□□64-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□64-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[2]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI[6] | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[3] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[4] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[3][5] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[3][5] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[3][5] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, see page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65.

4) Current transformers for protection of the N conductor are to be ordered separately, page 1/65.

5) ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

6) ETU15B cannot be used with 3WL1 circuit breakers, size III.

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## 3-pole, fixed-mounted versions

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 85/100 kA at 500 V, high breaking capacity H (H) — Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Horizontal main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 85 | | **3WL1106-4□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-4□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-4□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-4□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-4□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-4□□62-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 100 | | **3WL1208-4□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□62-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-4□□62-□□□□** | | 1 | 1 unit | 1CA |
| **Vertical main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 85 | | **3WL1106-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 100 | | **3WL1208-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-4□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 6300 | 6300 | | | **3WL1363-4□□61-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[2]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI[6] | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[3] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[4] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[3)5)] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[3)5)] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[3)5)] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, see page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65.

4) Current transformers for protection of the N conductor are to be ordered separately, page 1/65.

5) ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

6) ETU15B cannot be used with 3WL1 circuit breakers, size III.



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 85/100 kA at 500 V, high breaking capacity H (H) Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Front main circuit connection, single hole** | | | | | | | | | |
| II | 800 | 800 | 100 | | **3WL1208-4□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□63-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□63-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□63-□□□□** | | 1 | 1 unit | 1CA |
| **Front main circuit connection, double hole** | | | | | | | | | |
| I | 630 | 630 | 85 | | **3WL1106-4□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-4□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-4□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-4□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-4□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-4□□64-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 100 | | **3WL1208-4□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□64-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□64-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□64-□□□□** | | 1 | 1 unit | 1CA |

| **Options** | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[2]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI[6] | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[3] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[4] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[3][5] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[3][5] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[3][5] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, see page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65.

4) Current transformers for protection of the N conductor are to be ordered separately, page 1/65.

5) ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

6) ETU15B cannot be used with 3WL1 circuit breakers, size III.

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## 3-pole, fixed-mounted versions

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | **$I_{cu}$ 130/150 kA at 500 V, very high breaking capacity C** Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Horizontal main circuit connection** | | | | | | | | | |
| II | 1600 | 1600 | 130 | | **3WL1216-5□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-5□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-5□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-5□□62-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 150 | | **3WL1340-5□□62-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-5□□62-□□□□** | | 1 | 1 unit | 1CA |
| **Vertical main circuit connection** | | | | | | | | | |
| II | 1600 | 1600 | 130 | | **3WL1216-5□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-5□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-5□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-5□□61-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 150 | | **3WL1340-5□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-5□□61-□□□□** | | 1 | 1 unit | 1CA |
| | 6300 | 6300 | | | **3WL1363-5□□61-□□□□** | | 1 | 1 unit | 1CA |

| **Options** | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[2]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI[3] | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[4] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[5] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[4)6)] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[4)6)] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[4)6)] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, see page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

3) ETU15B cannot be used with 3WL1 circuit breakers, size III.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65.

5) Current transformers for protection of the N conductor are to be ordered separately, page 1/65.

6) ETU45B and ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.



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

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## Selection and ordering data

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N (N) — Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Without guide frames[2][7] (for guide frames, see pages 1/57 to 1/63)** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-2□□65-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-2□□65-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frames, horizontal main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-2□□66-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□66-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[3]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[4] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[5] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[4][6] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[4][6] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[4][6] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65.

5) Current transformers for protection of the N conductor are to be ordered separately, page 1/65.

6) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

7) For installation in combination with guide frames supplied before 03/2019 or with 3WL92..-.A...-.... or 3WL92..-.B...-.... guide frames, it is necessary to order Z option A41.

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

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## 3-pole, withdrawable versions

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N (N) — Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **With guide frames, vertical main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-2□□67-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-2□□67-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frames, connecting flanges** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-2□□68-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□68-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[3]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[4] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[5] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[4][6] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[4][6] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[4][6] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65.

5) Current transformers for protection of the N conductor are to be ordered separately, page 1/65.

6) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 66/85 kA at 500 V, standard breaking capacity S (S) Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Without guide frames[2] [7] (for guide frames, see pages 1/57 to 1/63)** | | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-3□□65-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-3□□65-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frames, horizontal main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-3□□66-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□66-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[3]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[4] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[5] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[4][6] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[4][6] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[4][6] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65.

5) Current transformers for protection of the N conductor are to be ordered separately, page 1/65.

6) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

7) For installation in combination with guide frames supplied before 03/2019 or with 3WL92..-.A...-.... or 3WL92..-.B...-.... guide frames, it is necessary to order Z option A41.

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

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## 3-pole, withdrawable versions

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 66/85 kA at 500 V, standard breaking capacity S (S) — Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **With guide frames, vertical main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-3□□67-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-3□□67-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frames, connecting flanges** | | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-3□□68-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□68-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[3]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[4] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[5] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[4][6] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[4][6] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[4][6] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65.

5) Current transformers for protection of the N conductor are to be ordered separately, page 1/65.

6) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 85/100 kA at 500 V, high breaking capacity H (H) Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Without guide frames[2][8] (for guide frames, see pages 1/57 to 1/63)** | | | | | | | | | |
| I | 630 | 630 | 85 | | **3WL1106-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 100 | | **3WL1208-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 6300 | 6300 | | | **3WL1363-4□□65-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frames, horizontal main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 85 | | **3WL1106-4□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-4□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-4□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-4□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-4□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-4□□66-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 100 | | **3WL1208-4□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□66-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-4□□66-□□□□** | | 1 | 1 unit | 1CA |

| **Options** | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[3]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI[7] | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[4] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[5] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[4][6] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[4][6] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[4][6] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65.

5) Current transformers for protection of the N conductor are to be ordered separately, page 1/65.

6) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

7) ETU15B cannot be used with 3WL1 circuit breakers, size III.

8) For installation in combination with guide frames supplied before 03/2019 or with 3WL92..-.A...-.... or 3WL92..-.B...-.... guide frames, it is necessary to order Z option A41.

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

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## 3-pole, withdrawable versions

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 85/100 kA at 500 V, high breaking capacity H (H) Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **With guide frames, vertical main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 85 | | **3WL1106-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 100 | | **3WL1208-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 6300 | 6300 | | | **3WL1363-4□□67-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frames, connecting flanges** | | | | | | | | | |
| I | 630 | 630 | 85 | | **3WL1106-4□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-4□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-4□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-4□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-4□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-4□□68-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 100 | | **3WL1208-4□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□68-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□68-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□68-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[3]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI[7] | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[4] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[5] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[4][6] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[4][6] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[4][6] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65.

5) Current transformers for protection of the N conductor are to be ordered separately, page 1/65.

6) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

7) ETU15B cannot be used with 3WL1 circuit breakers, size III.



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | **$I_{cu}$ 130/150 kA at 500 V, very high breaking capacity C** Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Without guide frames[2][8] (for guide frames, see pages 1/57 to 1/63)** | | | | | | | | | |
| II | 1600 | 1600 | 130 | | **3WL1216-5□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-5□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-5□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-5□□65-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 150 | | **3WL1340-5□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-5□□65-□□□□** | | 1 | 1 unit | 1CA |
| | 6300 | 6300 | | | **3WL1363-5□□65-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frames, horizontal main circuit connection** | | | | | | | | | |
| II | 1600 | 1600 | 130 | | **3WL1216-5□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-5□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-5□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-5□□66-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 150 | | **3WL1340-5□□66-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-5□□66-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frames, vertical main circuit connection** | | | | | | | | | |
| II | 1600 | 1600 | 130 | | **3WL1216-5□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-5□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-5□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-5□□67-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 150 | | **3WL1340-5□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-5□□67-□□□□** | | 1 | 1 unit | 1CA |
| | 6300 | 6300 | | | **3WL1363-5□□67-□□□□** | | 1 | 1 unit | 1CA |

| **Options** | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[3]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI[4] | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[5] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[5] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[5] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[6] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[5][7] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[5][7] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[5][7] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

4) ETU15B cannot be used with 3WL1 circuit breakers, size III.

5) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65.

6) Current transformers for protection of the N conductor are to be ordered separately, page 1/65.

7) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

8) For installation in combination with guide frames supplied before 03/2019 or with 3WL92..-.A...-.... or 3WL92..-.B...-.... guide frames, it is necessary to order Z option A41.

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## Selection and ordering data

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N (N) — Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Horizontal main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-2□□72-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□72-□□□□** | | 1 | 1 unit | 1CA |
| **Vertical main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-2□□71-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-2□□71-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[2]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[3] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[3] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[3][4] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[3][4] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[3][4] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", page 1/52.

4) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N (N) | | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | | |
| | A | A | kA | d | | | | | |
| **Front main circuit connection, single hole** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□73-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□73-□□□□** | | 1 | 1 unit | 1CA |
| **Front main circuit connection, double hole** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-2□□74-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□74-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[2]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[3] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[3] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[3][4] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[3][4] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[3][4] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", page 1/52.

4) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

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## 4-pole, fixed-mounted versions

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 66/85 kA at 500 V, standard breaking capacity S (S) Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Horizontal main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-3□□72-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□72-□□□□** | | 1 | 1 unit | 1CA |
| **Vertical main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-3□□71-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-3□□71-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[2]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[3] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[3] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[3][4] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[3][4] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[3][4] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", page 1/52.

4) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 66/85 kA at 500 V, standard breaking capacity S (S) | | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | | |
| | A | A | kA | d | | | | | |
| **Front main circuit connection, single hole** | | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□73-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□73-□□□□** | | 1 | 1 unit | 1CA |
| **Front main circuit connection, double hole** | | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-3□□74-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□74-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[2]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[3] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[3] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[3][4] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[3][4] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[3][4] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", page 1/52.

4) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

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## 4-pole, fixed-mounted versions

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 85/100 kA at 500 V, high breaking capacity H (H) Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Horizontal main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 85 | | **3WL1106-4□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-4□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-4□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-4□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-4□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-4□□72-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 100 | | **3WL1208-4□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□72-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-4□□72-□□□□** | | 1 | 1 unit | 1CA |
| **Vertical main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 85 | | **3WL1106-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 100 | | **3WL1208-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-4□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 6300 | 6300 | | | **3WL1363-4□□71-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[2]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI[5] | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[3] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[3] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[3][4] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[3][4] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[3][4] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", page 1/52.

4) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

5) ETU15B cannot be used with 3WL1 circuit breakers, size III.



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 85/100 kA at 500 V, high breaking capacity H (H) Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Front main circuit connection, single hole** | | | | | | | | | |
| II | 800 | 800 | 100 | | **3WL1208-4□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□73-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□73-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□73-□□□□** | | 1 | 1 unit | 1CA |
| **Front main circuit connection, double hole** | | | | | | | | | |
| I | 630 | 630 | 85 | | **3WL1106-4□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-4□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-4□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-4□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-4□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-4□□74-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 100 | | **3WL1208-4□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□74-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□74-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□74-□□□□** | | 1 | 1 unit | 1CA |

| **Options** | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[2]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI[5] | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[3] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[3] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[3] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[3][4] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[3][4] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[3][4] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

3) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", page 1/52.

4) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

5) ETU15B cannot be used with 3WL1 circuit breakers, size III.

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## 4-pole, fixed-mounted versions

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | **$I_{cu}$ 130/150 kA at 500 V, very high breaking capacity C** (C) Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Horizontal main circuit connection** | | | | | | | | | |
| II | 1600 | 1600 | 130 | | **3WL1216-5□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-5□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-5□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-5□□72-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 130 | | **3WL1340-5□□72-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-5□□72-□□□□** | | 1 | 1 unit | 1CA |
| **Vertical main circuit connection** | | | | | | | | | |
| II | 1600 | 1600 | 130 | | **3WL1216-5□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-5□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-5□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-5□□71-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 130 | | **3WL1340-5□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-5□□71-□□□□** | | 1 | 1 unit | 1CA |
| | 6300 | 6300 | | | **3WL1363-5□□71-□□□□** | | 1 | 1 unit | 1CA |

| **Options** | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[2]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI[3] | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[4] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[4] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[4)5)] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[4)5)] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[4)5)] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

3) ETU15B cannot be used with 3WL1 circuit breakers, size III.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", page 1/52.

5) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.



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

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## Selection and ordering data

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N (N) — Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Without guide frames[2][6] (for guide frames, see pages 1/57 to 1/63)** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-2□□75-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-2□□75-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frames, horizontal main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-2□□76-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□76-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[3]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[4] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[4] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[4][5] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[4][5] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[4][5] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/48.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", page 1/52.

5) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

6) For installation in combination with guide frames supplied before 03/2019 or with 3WL92..-.A...-.... or 3WL92..-.B...-.... guide frames, it is necessary to order Z option A41.

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## 4-pole, withdrawable versions

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | **$I_{cu}$ 55/66 kA at 500 V, ECO breaking capacity N** (N) Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **With guide frames, vertical main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-2□□77-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-2□□77-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frames, connecting flanges** | | | | | | | | | |
| I | 630 | 630 | 55 | | **3WL1106-2□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-2□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-2□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-2□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-2□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-2□□78-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 66 | | **3WL1208-2□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-2□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-2□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-2□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-2□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-2□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-2□□78-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[3]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[4] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[4] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[4][5] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[4][5] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[4][5] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", page 1/52.

5) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 66/85 kA at 500 V, standard breaking capacity S (S) | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| | | | | | Article No. www.siemens.com/product?Article No. / Basic price per PU | | | |
| | A | A | kA | d | | | | |
| **Without guide frames[2][6] (for guide frames, see pages 1/57 to 1/63)** | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□75-□□□□** | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□75-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□75-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□75-□□□□** | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□75-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-3□□75-□□□□** | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□75-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□75-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□75-□□□□** | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□75-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□75-□□□□** | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□75-□□□□** | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□75-□□□□** | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-3□□75-□□□□** | 1 | 1 unit | 1CA |
| **With guide frames, horizontal main circuit connection** | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□76-□□□□** | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□76-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□76-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□76-□□□□** | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□76-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-3□□76-□□□□** | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□76-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□76-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□76-□□□□** | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□76-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□76-□□□□** | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□76-□□□□** | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□76-□□□□** | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[3]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[4] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[4] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[4][5] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[4][5] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[4][5] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", page 1/52.

5) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

6) For installation in combination with guide frames supplied before 03/2019 or with 3WL92..-.A...-.... or 3WL92..-.B...-.... guide frames, it is necessary to order Z option A41.

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## 4-pole, withdrawable versions

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 66/85 kA at 500 V, standard breaking capacity S (S) Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **With guide frames, vertical main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-3□□77-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-3□□77-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frames, connecting flanges** | | | | | | | | | |
| I | 630 | 630 | 66 | | **3WL1106-3□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-3□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-3□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-3□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-3□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-3□□78-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 85 | | **3WL1208-3□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-3□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-3□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-3□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-3□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-3□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-3□□78-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[3]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[4] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[4] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[4][5] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[4][5] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[4][5] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", page 1/52.

5) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 85/100 kA at 500 V, high breaking capacity H (H) Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Without guide frames[2][7] (for guide frames, see pages 1/57 to 1/63)** | | | | | | | | | |
| I | 630 | 630 | 85 | | **3WL1106-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 100 | | **3WL1208-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 6300 | 6300 | | | **3WL1363-4□□75-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frames, horizontal main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 85 | | **3WL1106-4□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-4□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-4□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-4□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-4□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-4□□76-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 100 | | **3WL1208-4□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□76-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-4□□76-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | | Additional price |
|---|---|---|---|---|---|
| **Non-automatic air circuit breakers[3]** | Without Electronic Trip Units | | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | | |
| | ETU15B: Protection functions LI[6] | | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] | | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] with 4-line display | | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[4] with full graphics display | | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | | |
| | ETU27B: Protection functions LSING[4] | | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[4][5] | | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[4][5] with 4-line display | | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[4][5] with full graphics display | | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.
2) Z options which are installed on the guide frame are not available.
3) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.
4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", page 1/52.
5) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.
6) ETU15B cannot be used with 3WL1 circuit breakers, size III.
7) For installation in combination with guide frames supplied before 03/2019 or with 3WL92..-.A...-.... or 3WL92..-.B...-.... guide frames, it is necessary to order Z option A41.

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 85/100 kA at 500 V, high breaking capacity H (H) Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **With guide frames, vertical main circuit connection** | | | | | | | | | |
| I | 630 | 630 | 85 | | **3WL1106-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 100 | | **3WL1208-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 4000 | 4000 | | | **3WL1240-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 6300 | 6300 | | | **3WL1363-4□□77-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frames, connecting flanges** | | | | | | | | | |
| I | 630 | 630 | 85 | | **3WL1106-4□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | 800 | | | **3WL1108-4□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1110-4□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1112-4□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1116-4□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1120-4□□78-□□□□** | | 1 | 1 unit | 1CA |
| II | 800 | 800 | 100 | | **3WL1208-4□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | 1000 | | | **3WL1210-4□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | 1250 | | | **3WL1212-4□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 1600 | 1600 | | | **3WL1216-4□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-4□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-4□□78-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-4□□78-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 100 | | **3WL1340-4□□78-□□□□** | | 1 | 1 unit | 1CA |

| Options | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[3]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI[6] | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[4] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[4] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[4] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[4][5] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[4][5] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[4][5] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

4) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", page 1/52.

5) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

6) ETU15B cannot be used with 3WL1 circuit breakers, size III.



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Rated current[1] $I_n$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | $I_{cu}$ 130/150 kA at 500 V, very high breaking capacity C (C) Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | kA | d | | | | | |
| **Without guide frames[2][7] (for guide frames, see pages 1/57 to 1/63)** | | | | | | | | | |
| II | 1600 | 1600 | 130 | | **3WL1216-5□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-5□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-5□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-5□□75-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 130 | | **3WL1340-5□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-5□□75-□□□□** | | 1 | 1 unit | 1CA |
| | 6300 | 6300 | | | **3WL1363-5□□75-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frames, horizontal main circuit connection** | | | | | | | | | |
| II | 1600 | 1600 | 130 | | **3WL1216-5□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-5□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-5□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-5□□76-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 130 | | **3WL1340-5□□76-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-5□□76-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frames, vertical main circuit connection** | | | | | | | | | |
| II | 1600 | 1600 | 130 | | **3WL1216-5□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 2000 | 2000 | | | **3WL1220-5□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 2500 | 2500 | | | **3WL1225-5□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 3200 | 3200 | | | **3WL1232-5□□77-□□□□** | | 1 | 1 unit | 1CA |
| III | 4000 | 4000 | 130 | | **3WL1340-5□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 5000 | 5000 | | | **3WL1350-5□□77-□□□□** | | 1 | 1 unit | 1CA |
| | 6300 | 6300 | | | **3WL1363-5□□77-□□□□** | | 1 | 1 unit | 1CA |

| **Options** | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers[3]** | Without Electronic Trip Units | **AA** | | **None** |
| **Electronic Trip Units** | **Versions without ground-fault protection** | | | |
| | ETU15B: Protection functions LI[4] | **BB** | | ✓ |
| | ETU25B: Protection functions LSI | **CB** | | ✓ |
| | ETU45B: Protection functions LSIN[5] | **EB** | | ✓ |
| | ETU45B: Protection functions LSIN[5] with 4-line display | **FB** | | ✓ |
| | ETU76B: Protection functions LSIN[5] with full graphics display | **NB** | | ✓ |
| | **Versions with ground-fault protection** | | | |
| | ETU27B: Protection functions LSING[5] | **DG** | | ✓ |
| | ETU45B: Protection functions LSING[5][6] | **EG** | | ✓ |
| | ETU45B: Protection functions LSING[5][6] with 4-line display | **FG** | | ✓ |
| | ETU76B: Protection functions LSING[5][6] with full graphics display | **NG** | | ✓ |
| **Operating mechanism, auxiliary release, auxiliary switch** | Manual operating mechanism with mechanical closing, without 1st and 2nd auxiliary releases; auxiliary switch 2 NC + 2 NO | | **1AA2** | **None** |
| | For further Article No. supplements, page 1/48 | | | |

1) The rated current is determined by the rating plug. For the standard version, the supplied module is equal to the maximum rated current. If a lower rated current is required, adaptation by order code, page 1/49.

2) Z options which are installed on the guide frame are not available.

3) For permissible rated short-time current $I_{cc}$ and rated short-circuit making capacity $I_{cm}$ for non-automatic air circuit breakers, page 1/13.

4) ETU15B cannot be used with 3WL1 circuit breakers, size III.

5) Current transformers for protection of the N conductor and current transformers for detection of the ground-fault current in the grounded star point of the transformer are to be ordered separately, page 1/65. The internal current transformer for N conductors can be ordered by adding the supplement "-Z" and order code "F23", page 1/52.

6) For ETU45B to ETU76B with GFM AT ground-fault protection module (alarm and tripping), page 1/65.

7) For installation in combination with guide frames supplied before 03/2019 or with 3WL92..-.A...-.... or 3WL92..-.B...-.... guide frames, it is necessary to order Z option A41.

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## Options

### Selection and ordering data

| | | | | Article No. supplement 3WL1...-.....- □□□□ | | | | Additional price |
|---|---|---|---|---|---|---|---|---|
| **Operating mechanisms** | | | | | | | | |
| **Manual operating mechanism with mechanical closing** | | | | **1** | | | | **None** |
| **Manual operating mechanism with mechanical and electrical closing, closing coil suitable for uninterrupted duty, 100 % OP** | | | | | | | | |
| 50/60 Hz V AC | V DC | | | | | | | |
| 110 | 110 ... 125 | | | **2** | | | | ✓ |
| 230 | 220 | | | **3** | | | | ✓ |
| **Manual/motorized operating mechanism with mechanical and electrical closing, closing coil suitable for uninterrupted duty, 100 % OP** | | | | | | | | |
| Motor | | Closing coil | | | | | | |
| 50/60 Hz V AC | V DC | 50/60 Hz V AC | V DC | | | | | |
| 208 ... 240 | 220 ... 250 | 230 | 220 | **4** | | | | ✓ |
| 110 ... 127 | 110 ... 125 | 110 | 110 ... 125 | **5** | | | | ✓ |
| -- | 24 | -- | 24 | **6** | | | | ✓ |
| Note | | | | | | | | |
| To order different voltages for motorized operating mechanism and closing coil or closing coil for synchronization purposes: "1" at the 13th digit of the Article No. and order codes, page 1/51. | | | | | | | | |
| **1st auxiliary release** | | | | | | | | |
| Type | Condition | $U_s$ 50/60 Hz V AC | $U_s$ V DC | | | | | |
| **Without 1st auxiliary releases** | -- | -- | -- | | **A** | | | **None** |
| **Shunt release suitable for uninterrupted duty, 100 % OP** | Operating range 0.85 ... 1.1 × $U_s$ | -- | 24 | | **B** | | | ✓ |
| | | -- | 30 | | **C** | | | ✓ |
| | | -- | 48 | | **D** | | | ✓ |
| | | -- | 60 | | **E** | | | ✓ |
| | | 110 ... 127 | 110 ... 125 | | **F** | | | ✓ |
| | | 208 ... 240 | 220 ... 250 | | **G** | | | ✓ |
| **2nd auxiliary release** | | | | | | | | |
| Type | Condition | $U_s$ 50/60 Hz V AC | $U_s$ V DC | | | | | |
| **Without 2nd auxiliary releases** | -- | -- | -- | | | **A** | | **None** |
| **Shunt release suitable for uninterrupted duty, 100 % OP** | Operating range 0.85 ... 1.1 × $U_s$ | -- | 24 | | | **B** | | ✓ |
| | | -- | 30 | | | **C** | | ✓ |
| | | -- | 48 | | | **D** | | ✓ |
| | | -- | 60 | | | **E** | | ✓ |
| | | 110 ... 127 | 110 ... 125 | | | **F** | | ✓ |
| | | 208 ... 240 | 220 ... 250 | | | **G** | | ✓ |
| **Undervoltage release, instantaneous (≤ 80 ms), short-delay (≤ 200 ms)** | Operating range 0.85 ... 1.1 × $U_s$ | -- | 24 | | | **J** | | ✓ |
| | | -- | 30 | | | **K** | | ✓ |
| | | -- | 48 | | | **L** | | ✓ |
| | | -- | 60 | | | **U** | | ✓ |
| | | 110 ... 127 | 110 ... 125 | | | **M** | | ✓ |
| | | 208 ... 240 | 220 ... 250 | | | **N** | | ✓ |
| | | 380 ... 415 | -- | | | **P** | | ✓ |
| **Undervoltage release, can be delayed between 0.2 s and 3.2 s** | Operating range 0.85 ... 1.1 × $U_s$ | -- | 48 | | | **Q** | | ✓ |
| | | 110 ... 127 | 110 ... 125 | | | **R** | | ✓ |
| | | 208 ... 240 | 220 ... 250 | | | **S** | | ✓ |
| | | 380 ... 415 | -- | | | **T** | | ✓ |
| **Auxiliary switches** | | | | | | | | |
| 1st auxiliary switch block | | | | | | | | |
| **2 NO + 2 NC** | | | | | | | **2** | **None** |
| 1st + 2nd auxiliary switch block | | | | | | | | |
| **4 NO + 4 NC** | | | | | | | **4** | ✓ |
| **6 NO + 2 NC** | | | | | | | **7** | ✓ |
| **5 NO + 3 NC** | | | | | | | **8** | ✓ |



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

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

| | | | 3WL....-.....-....-Z □□□ +...+... | Additional price 3-pole | Additional price 4-pole |
|---|---|---|---|---|---|
| **Operating manuals** | | | | | |
| Printed version | French/Italian | | A 1 1 | | |
| | Spanish/Portuguese | | A 1 2 | | |
| **Rated voltage 1000 V AC and 690 V IT networks** | | | | | |
| Conditions | Size | Rated current $I_n$ | | | |
| Only for circuit breakers of size I - III with high breaking capacity H and size III C class. Cannot be combined with rated voltage 1150 V AC, order code "A15". | I[1)] | Up to 2000 A | A 0 5 | ✓ | ✓ |
| | II[1)2)] | Up to 2000 A | A 0 5 | ✓ | ✓ |
| | | 2500 A | A 0 5 | ✓ | ✓ |
| | | 3200 A / 4000 A | A 0 5 | ✓ | ✓ |
| | III[1)] | 4000 A | A 0 5 | ✓ | ✓ |
| | | 5000 A | A 0 5 | ✓ | ✓ |
| | | 6300 A | A 0 5 | ✓ | ✓ |
| **Rated voltage 1150 V AC** | | | | | |
| Conditions | Size | Rated current $I_n$ | | | |
| Only for circuit breakers with high breaking capacity H (8th digit of the Article No. is a "4"). Cannot be combined with rated voltage 1000 V AC, order code "A05". | II[2)] | Up to 2000 A | A 1 5 | ✓ | ✓ |
| | | 2500 A | A 1 5 | ✓ | ✓ |
| | | 3200 A | A 1 5 | ✓ | ✓ |
| | | 4000 A | A 1 5 | ✓ | ✓ |
| | III[3)] | 4000 A | A 1 5 | ✓ | ✓ |
| | | 5000 A | A 1 5 | ✓ | ✓ |
| | | 6300 A | A 1 5 | ✓ | ✓ |
| Note | | | | | |
| For size III select a circuit breaker with very high breaking capacity C, which can be used as standard up to 1150 V AC. | | | | | |
| **Rated voltage 690 V AC (+ 20 %)** | | | | | |
| Conditions | Size | Rated current $I_n$ | | | |
| Only for 3WL11 circuit breakers, size I, with high breaking capacity H (8th digit of the Article No. is a "4"). | I | Up to 2000 A | A 1 6 | ✓ | ✓ |
| **Tinned version of the customer's connections on the guide frame[3)4)]** | | | | | |
| Conditions | Size | | | | |
| Only for circuit breakers in withdrawable version with horizontal connection or flange connection. The normal delivery time increases to 15 work days. | I | | A 0 8 | ✓ | ✓ |
| | II | | A 0 8 | ✓ | ✓ |
| | III | | A 0 8 | ✓ | ✓ |
| **Replacement delivery for 3WL1 withdrawable circuit breakers** | | | | | |
| Reduction of the technical specifications for 3WL1 withdrawable circuit breakers in sizes I ... III for use in combination with guide frames<br>• as circuit breaker with guide frame 3WL1...-...3.-....<br>• as circuit breaker with guide frame 3WL1...-...4.-....<br>or separate guide frame<br>• as 3WL92..-.A..-.... or<br>• as 3WL92..-.B..-.... or<br>• as 3WL92..-.D..-.... or<br>• as 3WL92..-.E..-.... | | | A 4 1 | ✓ | ✓ |
| **Special packaging (moisture protection)** | | | | | Additional price |
| **Special packaging for extended technical requirements** | | | | | |
| Cardboard packaging with water-repellent coating on corrugated cardboard (moisture protection) | | | A 6 1 | | ✓ |
| **Rating plugs** | | | | | Additional price |
| Conditions | Size | Rated current $I_n$ A | | | |

1) When ordering withdrawable circuit breaker and guide frame separately, specify order code "A05" for withdrawable circuit breaker and guide frame.

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

3) Front connections are tinned as standard.

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

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## Options

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

**3WL....-.....-....-Z**
□□□ **+...+...**

Additional price

### Rating plugs

| Conditions | Size | Rated current $I_n$ A | | | | Additional price |
|---|---|---|---|---|---|---|
| Only one module is possible per circuit breaker (not in conjunction with Electronic Trip Unit ETU15B).<br>As standard, the Electronic Trip Units are equipped with a rating plug which is equal to the maximum rated circuit breaker current ($I_{n\,max}$). The rated current of the selected rating plug must be smaller than $I_{n\,max}$. | I, II | 250 | **B** | **0** | **2** | **None** |
| | | 315 | **B** | **0** | **3** | **None** |
| | | 400 | **B** | **0** | **4** | **None** |
| | | 500 | **B** | **0** | **5** | **None** |
| | | 630 | **B** | **0** | **6** | **None** |
| | | 800 | **B** | **0** | **8** | **None** |
| | | 1000 | **B** | **1** | **0** | **None** |
| | I, II, III | 1250 | **B** | **1** | **2** | **None** |
| | | 1600 | **B** | **1** | **6** | **None** |
| | | 2000 | **B** | **2** | **0** | **None** |
| | II, III | 2500 | **B** | **2** | **5** | **None** |
| | | 3200 | **B** | **3** | **2** | **None** |
| | | 4000 | **B** | **4** | **0** | **None** |
| | III | 5000 | **B** | **5** | **0** | **None** |
| | | 6300 | **B** | **6** | **3** | **None** |



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

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| | | | | Add "**-Z**" to the complete Article No. and indicate the appropriate order code(s). | **3WL....-.....-....-Z** □□□ **+...+...** | Additional price |
|---|---|---|---|---|---|---|
| **Indication/operator control elements, door sealing frames** | | | | | | |
| **5-digit mechanical operating cycles counter**[1] | | | | | **C 0 1** | ✓ |
| **Electrical ON button S10 in the operator panel**[2] Possible only for circuit breakers with closing coil. | | Button with sealing cap | | | **C 1 1** | ✓ |
| | | Key operation with CES lock | | | **C 1 2** | ✓ |
| **Spring charged signaling switches**[2] **(S21)** | | 1 NO contact | | | **C 2 0** | ✓ |
| **Ready-to-close signaling switches (S20)** | | 1 NO contact | | | **C 2 2** | ✓ |
| **Signaling switches**[2] | | For the first auxiliary release (S22) | | | **C 2 6** | ✓ |
| | | For the second auxiliary release (S23) | | | **C 2 7** | ✓ |
| **Motor shutdown switch in the operator panel**[3] **(S12)** | | | | | **S 2 5** | ✓ |
| **EMERGENCY-STOP pushbuttons** | | Mushroom pushbutton instead of the mechanical OFF pushbutton | | | **S 2 4** | ✓ |
| **Door sealing frames** | | | | | **T 4 0** | ✓ |
| **Reclosing lockout and remote resets** | | | | | | |
| **Automatic reset of the reclosing lockout** | | | | | **K 0 1** | ✓ |
| **1st tripped signaling switch**[2][4] **(S24)** | | 1 CO contact | | | **K 0 7** | ✓ |
| **2nd tripped signaling switch**[2][4][8] **(S25)** | | 1 NO contact | | | **K 0 6** | ✓ |
| Type | | 50/60 Hz V AC | V DC | | | |
| **Remote reset solenoid for displays and reset buttons including automatic reset of the reclosing lockout** | | -- | 24 | | **K 1 0** | ✓ |
| | | -- | 48 | | **K 1 1** | ✓ |
| | | 120 | 125 | | **K 1 2** | ✓ |
| | | 208 ... 250 | 208 ... 250 | | **K 1 3** | ✓ |
| **Motorized operating mechanism and closing/opening coils** | | | | | | |
| Type | Conditions | Motor 50/60 Hz V AC | V DC | | | |
| **Motorized operating mechanism** | Only possible if the 13th digit of the Article No. = "1" | -- | 24 ... 30 | | **M 0 1** | ✓ |
| | | -- | 48 ... 60 | | **M 0 3** | ✓ |
| | | 110 ... 127 | 110 ... 125 | | **M 0 5** | ✓ |
| | | 208 ... 240 | 220 ... 250 | | **M 0 6** | ✓ |
| Type | Conditions | Activation solenoids 50/60 Hz V AC | V DC | | | |
| **Closing coil suitable for uninterrupted duty, 100 % OP** | Only possible if the 13th digit of the Article No. = "1" | -- | 24 | | **M 2 1** | ✓ |
| | | -- | 30 | | **M 2 2** | ✓ |
| | | -- | 48 | | **M 2 3** | ✓ |
| | | -- | 60 | | **M 2 4** | ✓ |
| | | 110 ... 127 | 110 ... 125 | | **M 2 5** | ✓ |
| | | 208 ... 240 | 220 ... 250 | | **M 2 6** | ✓ |
| Type | Conditions | Activation solenoids 50/60 Hz V AC | V DC | | | |
| **Closing coil**[5] **not suitable for uninterrupted duty, 5 % OP, synchronizable** | Only possible if the 13th digit of the Article No. = "1" | -- | 24 | | **M 3 1** | ✓ |
| | | -- | 48 | | **M 3 3** | ✓ |
| | | 110 ... 127 | 110 ... 125 | | **M 3 5** | ✓ |
| | | 208 ... 240 | 220 ... 250 | | **M 3 6** | ✓ |
| Type | Conditions | Activation solenoids 50/60 Hz V AC | V DC | | | |
| **Opening coil (shunt release)**[6][7] | Not suitable for uninterrupted duty, 5 % OP, synchronizable | -- | 24 | | **M 4 1** | ✓ |
| | | -- | 48 | | **M 4 3** | ✓ |
| | | 110 ... 127 | 110 ... 125 | | **M 4 5** | ✓ |
| | | 208 ... 240 | 220 ... 250 | | **M 4 6** | ✓ |

1) Only possible with motorized operating mechanism.
2) Not possible with "communications interface" option, order code "F02" or "F12".
3) Only for breakers with motorized operating mechanism, not possible with order codes "C11", "C12".
4) Not available for non-automatic air circuit breakers.
5) Overexcited, i.e. switching time 50 ms (standard > 80 ms).
6) Only possible if the 14th digit of the Article No. for the circuit breaker is "A", i.e. "without 1st auxiliary release".
7) Overexcited, i.e. opening time 50 ms (standard > 80 ms).
8) Only possible with option "K07".

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## Options

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

| | | | | **3WL....-.....-....-Z** ☐☐☐ +...+... | Additional price |
|---|---|---|---|---|---|
| **Interlocks, covers, position signaling switches (for fixed-mounted version)** | | | | | |
| **Mechanical interlocking** (interlocking module with Bowden cable 2 m) | Fixed-mounted circuit breakers | | | **S 5 5** | ✓ |
| **Interlocks, covers, position signaling switches (for withdrawable version)** | | | | | |
| **Mechanical interlocking** (interlocking module with Bowden cable 2 m) | Variant | | | | |
| | For withdrawable circuit breakers with guide frame | | | **R 5 5** | ✓ |
| | For guide frames | | | **R 5 6** | ✓ |
| | For withdrawable circuit breakers | | | **R 5 7** | ✓ |
| **Arc chute covers** Not available for - 1000 V version (order code "A05") - DC version - 4000 A, size II - 1150 V version (order code "A15") - 130 kA version, size II - 150 kA version, size III | Number of poles | Size | | | |
| | 3-pole | I | | **R 1 0** | ✓ |
| | | II | | **R 1 0** | ✓ |
| | | III | | **R 1 0** | ✓ |
| | 4-pole | I | | **R 1 0** | ✓ |
| | | II | | **R 1 0** | ✓ |
| | | III | | **R 1 0** | ✓ |
| **Shutters** 2-part lockable with padlocks[1)] | Number of poles | Size | | | |
| | 3-pole | I | | **R 2 1** | ✓ |
| | | II | | **R 2 1** | ✓ |
| | | III | | **R 2 1** | ✓ |
| | 4-pole | I | | **R 2 1** | ✓ |
| | | II | | **R 2 1** | ✓ |
| | | III | | **R 2 1** | ✓ |
| **Position signaling switches for guide frames** | Connected position | Test position | Disconnected position | | |
| | 1 CO | 1 CO | 1 CO | **R 1 5** | ✓ |
| | 3 CO | 2 CO | 1 CO | **R 1 6** | ✓ |
| **Communication and metering functions** | | | | | |
| **Breaker Status Sensor (BSS)** | | | | **F 0 1** | ✓ |
| **PROFIBUS DP communications interface[2)]** | Including COM15 and Breaker Status Sensor (BSS) | | | **F 0 2** | ✓ |
| **MODBUS RTU communications interface[2)]** | Including COM16 and Breaker Status Sensor (BSS) | | | **F 1 2** | ✓ |
| **PROFINET IO / Modbus TCP communications interface[2)]** NEW | Including COM35 and Breaker Status Sensor (BSS) | | | **F 3 5** | ✓ |
| **Metering function Plus (communication modules not included)** NEW | | | | | |
| **With internal voltage tap at the lower main conducting paths** | | | | **F 3 6** | ✓ |
| **With internal voltage tap at the upper main conducting paths** | | | | **F 3 7** | ✓ |
| **For combination with external voltage transformer** Voltage transformers have to be ordered externally, page 1/74. | | | | **F 3 8** | ✓ |
| **Overload and short-circuit protection for neutral conductors** | | | | | |
| **Internal current transformer for N conductor** Only possible with 4-pole circuit breakers with ETU27B to ETU76B | Size | | | | |
| | I | | | **F 2 3** | ✓ |
| | II | | | **F 2 3** | ✓ |
| | III | | | **F 2 3** | ✓ |
| **EMC filters** | | | | | |
| **EMC filters** • Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters) • Insertion loss (asymmetric) in the range 40 kHz to 10 MHz > 40 dB | | | | **F 3 1** | ✓ |
| **Transformers (without iron core), Rogowski coil only (from 06/2019)** | | | | | |
| **Transformers** Used in converter applications with high harmonic components; can only be used with ETU45B or ETU76B • External 24 V DC supply required • Undervoltage release required Comprises: • 3 (3-pole) or 4 (4-pole) transformers • 24 V DC relay • Warning signs • Manual | Number of poles | Size | | | |
| | 3-pole | II | | **K 6 0** | ✓ |
| | | III | | **K 6 0** | ✓ |
| | 4-pole | II | | **K 6 0** | ✓ |
| | | III | | **K 6 0** | ✓ |

1) Padlocks not included in scope of supply.

2) When ordering withdrawable circuit breaker and guide frame separately, specify order code "F02" or "F12" or "F35" for withdrawable circuit breaker only.



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

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| | | Add **"-Z"** to the complete Article No. and indicate the appropriate order code(s). | **3WL....-.....-....-Z** ☐☐☐ +...+... | Additional price |
|---|---|---|---|---|
| **Locking devices (for fixed-mounted versions and withdrawable versions)** | | | | |
| **Locking devices against unauthorized closing, in the operator panel** The disconnector unit fulfills the requirements for main circuit breakers according to EN 60204-1 | Variant | | | |
| | Made by CES | **S 0 1** | | ✓ |
| | Made by IKON | **S 0 3** | | ✓ |
| | Assembly kit FORTRESS or Castell[1)] | **S 0 5** | | ✓ |
| | Assembly kit for padlocks[2)] | **S 0 7** | | ✓ |
| | Made by Ronis | **S 0 8** | | ✓ |
| | Made by Profalux | **S 0 9** | | ✓ |
| **EMERGENCY-STOP pushbuttons** | Mushroom pushbutton instead of the mechanical OFF pushbutton | **S 2 4** | | ✓ |
| **Locking devices for operating mechanism handles with padlock[2)]** | | **S 3 3** | | ✓ |
| **Locking devices (for withdrawable version)** | | | | |
| **Locking devices against unauthorized closing, for withdrawable circuit breakers** The disconnector unit fulfills the requirements for main circuit breakers acc. to EN 60204-1, consisting of a lock in the cabinet door, active in the connected position, function is retained when circuit breaker is replaced. Not possible in combination with order codes "R81", "R85" or "R86". | Variant | | | |
| | Made by CES | **R 6 1** | | ✓ |
| | Made by Ronis | **R 6 8** | | ✓ |
| | Made by Profalux | **R 6 0** | | ✓ |
| **Locking devices to prevent movement of the withdrawable circuit breakers** Safety lock for mounting on the circuit breaker | Variant | | | |
| | Made by CES | **S 7 1** | | ✓ |
| | Made by Profalux | **S 7 5** | | ✓ |
| | Made by Ronis | **S 7 6** | | ✓ |
| **Locking mechanisms (for fixed-mounted versions)** | | | | |
| **Locking mechanism** Not possible in combination with order codes "R81", "R85" or "R86". | To prevent opening of the cabinet door in ON position | **S 3 0** | | ✓ |
| **Locking mechanisms (for withdrawable versions)** | | | | |
| **Locking mechanism** Not possible in combination with order codes "R81", "R85" or "R86". | Variant | | | |
| | To prevent opening of the cabinet door in connected position | **R 3 0** | | ✓ |
| | To prevent closing of circuit breaker with the cabinet door open[3)5)] | **R 4 0** | | ✓ |
| | To prevent movement with the cabinet door open[4)] | **R 5 0** | | ✓ |
| **Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position,** consisting of Bowden cable and lock in the cabinet door. Not possible in combination with order codes "R30", "R50", "R61", "R68" or "R60". | Variant | | | |
| | Made by CES | **R 8 1** | | ✓ |
| | Made by Profalux | **R 8 5** | | ✓ |
| | Made by Ronis | **R 8 6** | | ✓ |
| **Connection methods for auxiliary conductors (for fixed-mounted and withdrawable versions)** | | | | |
| **Connections for screwless terminals (tension spring)** | Variant | | | |
| | Fixed-mounted | **N 6 1** | | ✓ |
| | Withdrawable | **P 6 1** | | ✓ |

1) Locks must be ordered from the manufacturer.
2) Padlock not included in the scope of supply.
3) Not available in combination with R50.
4) Not available in combination with R40.
5) Combination with R81, R85 and R86 on request.

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## Options

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

**3WL....-.....-....-Z**
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| For withdrawable circuit breakers with guide frames or separate guide frames | | | | | | Additional price 3-pole | Additional price 4-pole |
|---|---|---|---|---|---|---|---|
| Note | | | | | | | |
| To select this connection method, the 12th digit of the Article No. for the circuit breaker must be a "6". | | | | | | | |
| **Connection methods for main connections** | Size | Rated current $I_n$ | | | | | |
| Top and bottom:[1) 2)] accessible from front, single hole | I | Up to 1600 A | **P** | **0** | **0** | ✓ | ✓ |
| | II | Up to 2000 A | **P** | **0** | **0** | ✓ | ✓ |
| | | Up to 2500 A | **P** | **0** | **0** | ✓ | ✓ |
| | | Up to 3200 A | **P** | **0** | **0** | ✓ | ✓ |
| | III | Up to 4000 A | **P** | **0** | **0** | ✓ | ✓ |
| **Connection methods for main connections** | Size | Rated current $I_n$ | | | | | |
| Top and bottom:[1)] accessible from front, double hole | I | Up to 2000 A | **P** | **0** | **1** | ✓ | ✓ |
| | II | Up to 2000 A | **P** | **0** | **1** | ✓ | ✓ |
| | | Up to 2500 A | **P** | **0** | **1** | ✓ | ✓ |
| | | Up to 3200 A | **P** | **0** | **1** | ✓ | ✓ |
| | III | Up to 4000 A | **P** | **0** | **1** | ✓ | ✓ |
| **Connection methods for main connections** | Size | Rated current $I_n$ | | | | | |
| Top:[1) 2)] horizontal Bottom: accessible from front, single hole | I | Up to 1600 A | **P** | **0** | **7** | ✓ | ✓ |
| | II | Up to 2000 A | **P** | **0** | **7** | ✓ | ✓ |
| | | Up to 2500 A | **P** | **0** | **7** | ✓ | ✓ |
| | | Up to 3200 A | **P** | **0** | **7** | ✓ | ✓ |
| | III | Up to 4000 A | **P** | **0** | **7** | ✓ | ✓ |
| **Connection methods for main connections** | Size | Rated current $I_n$ | | | | | |
| Top: vertical Bottom: horizontal | I | Up to 2000 A | **P** | **1** | **8** | ✓ | ✓ |
| | II | Up to 2000 A | **P** | **1** | **8** | ✓ | ✓ |
| | | Up to 2500 A | **P** | **1** | **8** | ✓ | ✓ |
| | | Up to 3200 A | **P** | **1** | **8** | ✓ | ✓ |
| | III | Up to 4000 A | **P** | **1** | **8** | ✓ | ✓ |
| | | Up to 5000 A | **P** | **1** | **8** | ✓ | ✓ |
| **Connection methods for main connections** | Size | Rated current $I_n$ | | | | | |
| Top:[1)] connecting flange Bottom: horizontal | I | Up to 2000 A | **P** | **1** | **9** | ✓ | ✓ |
| | II | Up to 2000 A | **P** | **1** | **9** | ✓ | ✓ |
| | | Up to 2500 A | **P** | **1** | **9** | ✓ | ✓ |
| | | Up to 3200 A | **P** | **1** | **9** | ✓ | ✓ |
| | III | Up to 4000 A | **P** | **1** | **9** | ✓ | ✓ |
| **Connection methods for main connections** | Size | Rated current $I_n$ | | | | | |
| Top: horizontal Bottom: vertical | I | Up to 2000 A | **P** | **2** | **3** | ✓ | ✓ |
| | II | Up to 2000 A | **P** | **2** | **3** | ✓ | ✓ |
| | | Up to 2500 A | **P** | **2** | **3** | ✓ | ✓ |
| | | Up to 3200 A | **P** | **2** | **3** | ✓ | ✓ |
| | III | Up to 4000 A | **P** | **2** | **3** | ✓ | ✓ |
| | | Up to 5000 A | **P** | **2** | **3** | ✓ | ✓ |
| **Connection methods for main connections** | Size | Rated current $I_n$ | | | | | |
| Top:[1)] horizontal Bottom: connecting flange | I | Up to 2000 A | **P** | **2** | **8** | ✓ | ✓ |
| | II | Up to 2000 A | **P** | **2** | **8** | ✓ | ✓ |
| | | Up to 2500 A | **P** | **2** | **8** | ✓ | ✓ |
| | | Up to 3200 A | **P** | **2** | **8** | ✓ | ✓ |
| | III | Up to 4000 A | **P** | **2** | **8** | ✓ | ✓ |

1) Cannot be used for size II and III circuit breakers with very high breaking capacity C

2) Not for 3WL1 size I with high breaking capacity H



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

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

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| **For fixed-mounted circuit breakers** | | | | | | | Additional price 3-pole | Additional price 4-pole |
|---|---|---|---|---|---|---|---|---|
| Note | | | | | | | | |
| To select this connection method, the 12th digit of the Article No. for the circuit breaker must be a "2". | | | | | | | | |
| **Connection methods for main connections** | Size | Rated current $I_n$ | | | | | | |
| Top:[1] horizontal Bottom: accessible from front, single hole | I | Up to 1600 A | **N** | **1** | **1** | | ✓ | ✓ |
| | II | Up to 2000 A | **N** | **1** | **1** | | ✓ | ✓ |
| | | Up to 2500 A | **N** | **1** | **1** | | ✓ | ✓ |
| | | Up to 3200 A | **N** | **1** | **1** | | ✓ | ✓ |
| | III[2] | Up to 4000 A | **N** | **1** | **1** | | ✓ | ✓ |
| **Connection methods for main connections** | Size | Rated current $I_n$ | | | | | | |
| Top: vertical Bottom: horizontal | I | Up to 1600 A | **N** | **2** | **0** | | ✓ | ✓ |
| | | Up to 2000 A | **N** | **2** | **0** | | ✓ | ✓ |
| | II | Up to 2000 A | **N** | **2** | **0** | | ✓ | ✓ |
| | | Up to 2500 A | **N** | **2** | **0** | | ✓ | ✓ |
| | | Up to 3200 A | **N** | **2** | **0** | | ✓ | ✓ |
| | III | Up to 4000 A | **N** | **2** | **0** | | ✓ | ✓ |
| | | Up to 5000 A | **N** | **2** | **0** | | ✓ | ✓ |
| **Connection methods for main connections** | Size | Rated current $I_n$ | | | | | | |
| Top: horizontal Bottom: vertical | I | Up to 1600 A | **N** | **2** | **4** | | ✓ | ✓ |
| | | Up to 2000 A | **N** | **2** | **4** | | ✓ | ✓ |
| | II | Up to 2000 A | **N** | **2** | **4** | | ✓ | ✓ |
| | | Up to 2500 A | **N** | **2** | **4** | | ✓ | ✓ |
| | | Up to 3200 A | **N** | **2** | **4** | | ✓ | ✓ |
| | III | Up to 4000 A | **N** | **2** | **4** | | ✓ | ✓ |
| | | Up to 5000 A | **N** | **2** | **4** | | ✓ | ✓ |

[1] Not for 3WL1 size I with high breaking capacity H and circuit breakers with very high breaking capacity C

[2] Not for size III with very high breaking capacity C

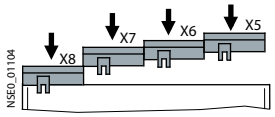
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## Overview

### *Determination of the number of auxiliary supply connectors required*

This selection is only required if the guide frame is ordered under a separate Article No.




The required number of auxiliary supply connectors depends on the:
- Operating mechanism type
- Electronic Trip Unit with/without current transformer
- Type and number of auxiliary releases
- Number of auxiliary switches
- COM15/COM16 communications interface

| | | Number of auxiliary supply connectors | Terminal |
|---|---|---|---|
| **a** | **The first auxiliary supply connector X6 is always required.** | **1** | X6 |
| **b** | **Operating mechanisms** | | |
| b1 | Manual operating mechanism with stored-energy feature with mechanical closing | **0** | |
| b2 | Manual operating mechanism with stored-energy feature with mechanical and electrical closing | **0** | X6 |
| b3 | Manual/motorized operating mechanism with stored-energy feature with mechanical and electrical closing | **+1** | X5 |
| **c** | **Electronic Trip Units** | | |
| c1 | Electronic Trip Units ETU15B, ETU25B, ETU27B | **0** | |
| c2 | Electronic Trip Units ETU45B, ETU76B (internal Cubicle**BUS**) | **+1** | X8 |
| | Connections for external current transformers for overload protection in the N conductor and ground fault protection | | |
| c3 | Current transformer installed in the N conductor (required with 3-pole circuit breakers if c2 is not selected) | **+1** | X8 |
| c4 | Current transformer in the star point of the transformer (required if c2 or c3 is not selected) | **+1** | X8 |
| **d** | **Auxiliary releases** | | |
| d1 | With/without 1st auxiliary release (shunt release F1) | **0** | X6 |
| d2 | 2nd auxiliary release (shunt release F2, undervoltage release F3, delayable undervoltage release F4) | **+1** | X5 |
| **e** | **Auxiliary switch blocks** | | |
| e1 | 1st auxiliary switch block 2 NO + 2 NC | **0** | X6 |
| e2 | 1st and 2nd auxiliary switch block 4 NO + 4 NC or 6 NO + 2 NC or 5 NO + 3 NC (required if b3 or d2 is not selected) | **+1** | X5 |
| **f** | **Communication modules** | | |
| f1 | Without communication module COM15/COM16 | **0** | |
| f2 | With communication module COM15/COM16 - occupies the entire terminal strip X7, making the following options no longer possible:<br>• Tripped signaling switch S24<br>• Stored-energy status indication S21<br>• Electrical ON button S10<br>• Signaling switch on first and second auxiliary release S22 + S23 | **+1** | X7 |
| **g** | **Optional signals/accessories** | | |
| g1 | Tripped signaling switch S24 (only when f2 not selected) | **+1** | X7 |
| g2 | Stored-energy status indicator S21 (only when f2 not selected, required if g1 not selected) | **+1** | X7 |
| g3 | Electric ON button S10 (only when f2 not selected, required if g1 or g2 not selected) | **+1** | X7 |
| g4 | Signaling switch at first auxiliary release S22 (only when f2 not selected, required if g1, g2 or g3 not selected) | **+1** | X7 |
| g5 | Signaling switch at second auxiliary release S23 (only when f2 not selected, required if g1, g2, g3 or g4 not selected) | **+1** | X7 |
| g6 | Switch on ready-to-close signaling switch S20 | **0** | X6 |
| g7 | Motor shutdown switch S12 (only if motorized operating mechanism selected) | **0** | X5 |
| g8 | Remote reset solenoid F7 (required if c2 not selected) | **+1** | X8 |
| **h** | **Total number of auxiliary supply connectors** | **(max. 4)** | |

For ordering the auxiliary supply connectors, see under "Accessories and spare parts, Guide frames for AC circuit breakers/non-automatic air circuit breakers", page 1/57 to page 1/63 and under "Accessories and spare parts, Auxiliary conductor connections, Auxiliary supply connectors", page 1/70.



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

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## Selection and ordering data

***Guide frames for AC circuit breakers/non-automatic air circuit breakers***

| Size | Max. rated circuit breaker current $I_{n\,max}$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | **Guide frames for 3-pole circuit breakers/ non-automatic air circuit breakers** Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| | A | kA | d | | | | | |
| **Front main circuit connection, single hole** | | | | | | | | |
| I | 1000 | ... 55 | | **3WL9211-1FA□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 55 | | **3WL9211-2FA□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1000 | ... 66 | | **3WL9211-1FA□□-□□S1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 66 | | **3WL9211-2FA□□-□□S1** | | 1 | 1 unit | 1CA |
| II | 2000 | ... 100 | | **3WL9212-3FA□□-□□H1** | | 1 | 1 unit | 1CA |
| | 2500 | ... 100 | | **3WL9212-4FA□□-□□H1** | | 1 | 1 unit | 1CA |
| | 3200 | ... 100 | | **3WL9212-5FA□□-□□H1** | | 1 | 1 unit | 1CA |
| III | 4000 | ... 100 | | **3WL9213-6FA□□-□□H1** | | 1 | 1 unit | 1CA |
| **Front main circuit connection, double hole** | | | | | | | | |
| I | 1000 | ... 55 | | **3WL9211-1FB□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 55 | | **3WL9211-2FB□□-□□N1** | | 1 | 1 unit | 1CA |
| | 2000 | ... 55 | | **3WL9211-3FB□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1000 | ... 66 | | **3WL9211-1FB□□-□□S1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 66 | | **3WL9211-2FB□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000 | ... 66 | | **3WL9211-3FB□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000[1] | ... 85 | | **3WL9211-3FB□□-□□H1** | | 1 | 1 unit | 1CA |
| II | 2000 | ... 100 | | **3WL9212-3FB□□-□□H1** | | 1 | 1 unit | 1CA |
| | 2500 | ... 100 | | **3WL9212-4FB□□-□□H1** | | 1 | 1 unit | 1CA |
| | 3200 | ... 100 | | **3WL9212-5FB□□-□□H1** | | 1 | 1 unit | 1CA |
| III | 4000 | ... 100 | | **3WL9213-6FB□□-□□H1** | | 1 | 1 unit | 1CA |
| **Horizontal main circuit connection** | | | | | | | | |
| I | 1000 | ... 55 | | **3WL9211-1FC□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 55 | | **3WL9211-2FC□□-□□N1** | | 1 | 1 unit | 1CA |
| | 2000 | ... 55 | | **3WL9211-3FC□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1000 | ... 66 | | **3WL9211-1FC□□-□□S1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 66 | | **3WL9211-2FC□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000 | ... 66 | | **3WL9211-3FC□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000[1] | ... 85 | | **3WL9211-3FC□□-□□H1** | | 1 | 1 unit | 1CA |
| II | 2000 | ... 100 | | **3WL9212-3FC□□-□□H1** | | 1 | 1 unit | 1CA |
| | 2500 | ... 100 | | **3WL9212-4FC□□-□□H1** | | 1 | 1 unit | 1CA |
| | 3200 | ... 100 | | **3WL9212-5FC□□-□□H1** | | 1 | 1 unit | 1CA |
| | 3200 | ... 130 | | **3WL9212-5FC□□-□□C1** | | 1 | 1 unit | 1CA |
| III | 4000 | ... 100 | | **3WL9213-6FC□□-□□H1** | | 1 | 1 unit | 1CA |
| | 5000 | ... 100 | | **3WL9213-7FC□□-□□H1** | | 1 | 1 unit | 1CA |
| | 4000 | ... 150 | | **3WL9213-6FC□□-□□C1** | | 1 | 1 unit | 1CA |
| | 5000 | ... 150 | | **3WL9213-7FC□□-□□C1** | | 1 | 1 unit | 1CA |

| **Options** | | | | | | Add. price |
|---|---|---|---|---|---|---|
| **Number of auxiliary supply connectors** | None | | **0** | | | **None** |
| | 1 connector | | **1** | | | ✓ |
| | 2 connectors | | **2** | | | ✓ |
| | 3 connectors | | **3** | | | ✓ |
| | 4 connectors | | **4** | | | ✓ |
| Note | | | | | | |
| For required number of auxiliary supply connectors, see table on page 1/56. | | | | | | |
| **Type of auxiliary circuit connections** | None[2] | | | **0** | | **None** |
| | With screw connection (SIGUT, standard) | | | **1** | | ✓ |
| | With screwless connection method (tension spring) | | | **2** | | ✓ |
| **Position signaling switches** | None | | | | **0** | **None** |
| | Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO | | | | **1** | ✓ |
| | Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO | | | | **2** | ✓ |
| **Shutters** | None | | | | **A** | **None** |
| | With shutter, 2-part, lockable | Size I | | | **B** | ✓ |
| | | Size II | | | **B** | ✓ |
| | | Size III | | | **B** | ✓ |

[1] For 3WL1 air circuit breakers size I from 630 A to 2000 A with high breaking capacity H.

[2] Can only be selected if the number of auxiliary supply connectors = 0.

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

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## Accessories and spare parts

| Add "**-Z**" to the complete Article No. and indicate the appropriate order code(s). | **3WL921.-.....-....-Z** □ □ □ | | | | Additional price |
|---|---|---|---|---|---|
| **Rated voltage 1000 V AC and 690 V IT networks** | | | | | |
| Size I (breaking capacity H) | **A** | **0** | **5** | | ✓ |
| Size II (breaking capacity H), not for breaking capacities N, S and C | **A** | **0** | **5** | | ✓ |
| Size III (breaking capacity H and C) | **A** | **0** | **5** | | ✓ |
| **Rated voltage 1150 V AC** | | | | | |
| Size II, except breaking capacity C and 4000 A (breaking capacity H) | **A** | **1** | **5** | | ✓ |
| Size III, breaking capacity H | **A** | **1** | **5** | | ✓ |
| **Rated voltage 690 V AC (+ 20 %)** | | | | | |
| Size I (breaking capacity H) | **A** | **1** | **6** | | ✓ |
| **Tinned version of the customer's connections on the guide frame[1)2)] Only for guide frames with horizontal connection or flange connection** | | | | | |
| Size I | **A** | **0** | **8** | | ✓ |
| Size II | **A** | **0** | **8** | | ✓ |
| Size III | **A** | **0** | **8** | | ✓ |
| Notes | | | | | |
| • For vertical main circuit connection and main circuit connection connecting flange, see the following page.<br>• All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see page 1/49 to page 1/55. | | | | | |

1) Front connections are tinned as standard.

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



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | **Guide frames for 3-pole circuit breakers/ non-automatic air circuit breakers** Article No.: www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| | A | kA | d | | | | | |
| **Vertical main circuit connection** | | | | | | | | |
| I | 1000 | ... 55 | | **3WL9211-1FD□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 55 | | **3WL9211-2FD□□-□□N1** | | 1 | 1 unit | 1CA |
| | 2000 | ... 55 | | **3WL9211-3FD□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1000 | ... 66 | | **3WL9211-1FD□□-□□S1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 66 | | **3WL9211-2FD□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000 | ... 66 | | **3WL9211-3FD□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000[1] | ... 85 | | **3WL9211-3FD□□-□□H1** | | 1 | 1 unit | 1CA |
| II | 2000 | ... 100 | | **3WL9212-3FD□□-□□H1** | | 1 | 1 unit | 1CA |
| | 2500 | ... 100 | | **3WL9212-4FD□□-□□H1** | | 1 | 1 unit | 1CA |
| | 3200 | ... 100 | | **3WL9212-5FD□□-□□H1** | | 1 | 1 unit | 1CA |
| | 3200 | ... 130 | | **3WL9212-5FD□□-□□C1** | | 1 | 1 unit | 1CA |
| | 4000 | ... 100 | | **3WL9212-6FD□□-□□H1** | | 1 | 1 unit | 1CA |
| III | 4000 | ... 100 | | **3WL9213-6FD□□-□□H1** | | 1 | 1 unit | 1CA |
| | 5000 | ... 100 | | **3WL9213-7FD□□-□□H1** | | 1 | 1 unit | 1CA |
| | 6300 | ... 100 | | **3WL9213-8FD□□-□□H1** | | 1 | 1 unit | 1CA |
| | 4000 | ... 150 | | **3WL9213-6FD□□-□□C1** | | 1 | 1 unit | 1CA |
| | 5000 | ... 150 | | **3WL9213-7FD□□-□□C1** | | 1 | 1 unit | 1CA |
| | 6300 | ... 150 | | **3WL9213-8FD□□-□□C1** | | 1 | 1 unit | 1CA |
| **Main circuit connection connecting flanges** | | | | | | | | |
| I | 1000 | ... 55 | | **3WL9211-1FE□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 55 | | **3WL9211-2FE□□-□□N1** | | 1 | 1 unit | 1CA |
| | 2000 | ... 55 | | **3WL9211-3FE□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1000 | ... 66 | | **3WL9211-1FE□□-□□S1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 66 | | **3WL9211-2FE□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000[1] | ... 85 | | **3WL9211-3FE□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000[1] | ... 85 | | **3WL9211-3FE□□-□□H1** | | 1 | 1 unit | 1CA |
| II | 2000 | ... 100 | | **3WL9212-3FE□□-□□H1** | | 1 | 1 unit | 1CA |
| | 2500 | ... 100 | | **3WL9212-4FE□□-□□H1** | | 1 | 1 unit | 1CA |
| | 3200 | ... 100 | | **3WL9212-5FE□□-□□H1** | | 1 | 1 unit | 1CA |
| III | 4000 | ... 100 | | **3WL9213-6FE□□-□□H1** | | 1 | 1 unit | 1CA |

| **Options** | | | | | | Additional price |
|---|---|---|---|---|---|---|
| **Number of auxiliary supply connectors** | None | | **0** | | | **None** |
| | 1 connector | | **1** | | | ✓ |
| | 2 connectors | | **2** | | | ✓ |
| | 3 connectors | | **3** | | | ✓ |
| | 4 connectors | | **4** | | | ✓ |
| Note | | | | | | |
| For required number of auxiliary supply connectors, see table on page 1/56. | | | | | | |
| **Type of auxiliary circuit connections** | None[4] | | | **0** | | **None** |
| | With screw connection (SIGUT, standard) | | | **1** | | ✓ |
| | With screwless connection method (tension spring) | | | **2** | | ✓ |
| **Position signaling switches** | None[4] | | | | **0** | **None** |
| | Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO | | | | **1** | ✓ |
| | Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO | | | | **2** | ✓ |
| **Shutters** | None | | | | **A** | **None** |
| | With shutter, | Size I | | | **B** | ✓ |
| | 2-part, | Size II | | | **B** | ✓ |
| | lockable | Size III | | | **B** | ✓ |

1) For 3WL1 circuit breakers size I from 630 A to 2000 A with high breaking capacity H .

2) Front connections are tinned as standard.

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

4) Can only be selected if the number of auxiliary supply connectors = 0.

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## Accessories and spare parts

| Add "**-Z**" to the complete Article No. and indicate the appropriate order code(s). | **3WL921.-.....-....-Z** □ □ □ | Additional price |
|---|---|---|
| **Rated voltage 1000 V AC and 690 V IT networks** | | |
| Size I (breaking capacity H; not for breaking capacity N and S) | **A 0 5** | ✓ |
| Size II (breaking capacity H), not for breaking capacities N, S and C | **A 0 5** | ✓ |
| Size III (breaking capacity H and C) | **A 0 5** | ✓ |
| **Rated voltage 1150 V AC** | | |
| Size II, except breaking capacity C and 4000 A (breaking capacity H) | **A 1 5** | ✓ |
| Size III, breaking capacity H | **A 1 5** | ✓ |
| **Rated voltage 690 V AC (+ 20 %)** | | |
| Size I (breaking capacity H) | **A 1 6** | ✓ |
| **Tinned version of the customer's connections on the guide frame[1)2)]<br>Only for guide frames with horizontal connection or flange connection** | | |
| Size I | **A 0 8** | ✓ |
| Size II | **A 0 8** | ✓ |
| Size III | **A 0 8** | ✓ |
| Notes | | |
| • For vertical main circuit connection and main circuit connection connecting flange, see the following page.<br>• All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see page 1/49 to page 1/55. | | |



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | **Guide frames for 4-pole circuit breakers/ non-automatic air circuit breakers** Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| | A | kA | d | | | | | |
| **Front main circuit connection, single hole** | | | | | | | | |
| I | 1000 | ... 55 | | **3WL9211-1GA□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 55 | | **3WL9211-2GA□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1000 | ... 66 | | **3WL9211-1GA□□-□□S1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 66 | | **3WL9211-2GA□□-□□S1** | | 1 | 1 unit | 1CA |
| II | 2000 | ... 100 | | **3WL9212-3GA□□-□□H1** | | 1 | 1 unit | 1CA |
| | 2500 | ... 100 | | **3WL9212-4GA□□-□□H1** | | 1 | 1 unit | 1CA |
| | 3200 | ... 100 | | **3WL9212-5GA□□-□□H1** | | 1 | 1 unit | 1CA |
| III | 4000 | ... 100 | | **3WL9213-6GA□□-□□H1** | | 1 | 1 unit | 1CA |
| **Front main circuit connection, double hole** | | | | | | | | |
| I | 1000 | ... 55 | | **3WL9211-1GB□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 55 | | **3WL9211-2GB□□-□□N1** | | 1 | 1 unit | 1CA |
| | 2000 | ... 55 | | **3WL9211-3GB□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1000 | ... 66 | | **3WL9211-1GB□□-□□S1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 66 | | **3WL9211-2GB□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000 | ... 66 | | **3WL9211-3GB□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000[1] | ... 85 | | **3WL9211-3GB□□-□□H1** | | 1 | 1 unit | 1CA |
| II | 2000 | ... 100 | | **3WL9212-3GB□□-□□H1** | | 1 | 1 unit | 1CA |
| | 2500 | ... 100 | | **3WL9212-4GB□□-□□H1** | | 1 | 1 unit | 1CA |
| | 3200 | ... 100 | | **3WL9212-5GB□□-□□H1** | | 1 | 1 unit | 1CA |
| III | 4000 | ... 100 | | **3WL9213-6GB□□-□□H1** | | 1 | 1 unit | 1CA |
| **Horizontal main circuit connection** | | | | | | | | |
| I | 1000 | ... 55 | | **3WL9211-1GC□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 55 | | **3WL9211-2GC□□-□□N1** | | 1 | 1 unit | 1CA |
| | 2000 | ... 55 | | **3WL9211-3GC□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1000 | ... 66 | | **3WL9211-1GC□□-□□S1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 66 | | **3WL9211-2GC□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000 | ... 66 | | **3WL9211-3GC□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000[1] | ... 85 | | **3WL9211-3GC□□-□□H1** | | 1 | 1 unit | 1CA |
| II | 2000 | ... 100 | | **3WL9212-3GC□□-□□H1** | | 1 | 1 unit | 1CA |
| | 2500 | ... 100 | | **3WL9212-4GC□□-□□H1** | | 1 | 1 unit | 1CA |
| | 3200 | ... 100 | | **3WL9212-5GC□□-□□H1** | | 1 | 1 unit | 1CA |
| | 3200 | ... 130 | | **3WL9212-5GC□□-□□C1** | | 1 | 1 unit | 1CA |
| III | 4000 | ... 100 | | **3WL9213-6GC□□-□□H1** | | 1 | 1 unit | 1CA |
| | 5000 | ... 100 | | **3WL9213-7GC□□-□□H1** | | 1 | 1 unit | 1CA |
| | 4000 | ... 130 | | **3WL9213-6GC□□-□□C1** | | 1 | 1 unit | 1CA |
| | 5000 | ... 130 | | **3WL9213-7GC□□-□□C1** | | 1 | 1 unit | 1CA |

| **Options** | | | | | | Additional price |
|---|---|---|---|---|---|---|
| **Number of auxiliary supply connectors** | None | | | | **0** | **None** |
| | 1 connector | | | | **1** | ✓ |
| | 2 connectors | | | | **2** | ✓ |
| | 3 connectors | | | | **3** | ✓ |
| | 4 connectors | | | | **4** | ✓ |
| Note | | | | | | |
| For required number of auxiliary supply connectors, see table on page 1/56. | | | | | | |
| **Type of auxiliary circuit connections** | None[2] | | | **0** | | **None** |
| | With screw connection (SIGUT, standard) | | | **1** | | ✓ |
| | With screwless connection method (tension spring) | | | **2** | | ✓ |
| **Position signaling switches** | None | | **0** | | | **None** |
| | Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO | | **1** | | | ✓ |
| | Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO | | **2** | | | ✓ |
| **Shutters** | None | | | | **A** | **None** |
| | With shutter, 2-part, lockable | Size I | | | **B** | ✓ |
| | | Size II | | | **B** | ✓ |
| | | Size III | | | **B** | ✓ |

[1] For 3WL1 circuit breakers size I from 630 A to 2000 A with high breaking capacity H.

[2] Can only be selected if the number of auxiliary supply connectors = 0.

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## Accessories and spare parts

| Add "**-Z**" to the complete Article No. and indicate the appropriate order code(s). | **3WL921.-.....-....-Z** □ □ □ | | | | Additional price |
|---|---|---|---|---|---|
| **Rated voltage 1000 V AC and 690 V IT networks** | | | | | |
| Size I (breaking capacity H; not for breaking capacity N and S) | **A** | **0** | **5** | | ✓ |
| Size II (breaking capacity H), not for breaking capacities N, S and C | **A** | **0** | **5** | | ✓ |
| Size III (breaking capacity H and C) | **A** | **0** | **5** | | ✓ |
| **Rated voltage 1150 V AC** | | | | | |
| Size II, except breaking capacity C and 4000 A (breaking capacity H) | **A** | **1** | **5** | | ✓ |
| Size III, breaking capacity H | **A** | **1** | **5** | | ✓ |
| **Rated voltage 690 V AC (+ 20 %)** | | | | | |
| Size I (breaking capacity H) | **A** | **1** | **6** | | ✓ |
| **Tinned version of the customer's connections on the guide frame[1)2)] Only for guide frames with horizontal connection or flange connection** | | | | | |
| Size I | **A** | **0** | **8** | | ✓ |
| Size II | **A** | **0** | **8** | | ✓ |
| Size III | **A** | **0** | **8** | | ✓ |
| Notes | | | | | |
| • For vertical main circuit connection and main circuit connection connecting flange, see the following page. | | | | | |
| • All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see page 1/49 to page 1/55. | | | | | |

1) Front connections are tinned as standard.

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



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | Breaking capacity $I_{cu} = I_{cs}$ | SD | **Guide frames for 4-pole circuit breakers/ non-automatic air circuit breakers** Article No.: www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| | A | kA | d | | | | | |
| **Vertical main circuit connection** | | | | | | | | |
| I | 1000 | ... 55 | | **3WL9211-1GD□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 55 | | **3WL9211-2GD□□-□□N1** | | 1 | 1 unit | 1CA |
| | 2000 | ... 55 | | **3WL9211-3GD□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1000 | ... 66 | | **3WL9211-1GD□□-□□S1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 66 | | **3WL9211-2GD□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000 | ... 66 | | **3WL9211-3GD□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000[1] | ... 85 | | **3WL9211-3GD□□-□□H1** | | 1 | 1 unit | 1CA |
| II | 2000 | ... 100 | | **3WL9212-3GD□□-□□H1** | | 1 | 1 unit | 1CA |
| | 2500 | ... 100 | | **3WL9212-4GD□□-□□H1** | | 1 | 1 unit | 1CA |
| | 3200 | ... 100 | | **3WL9212-5GD□□-□□H1** | | 1 | 1 unit | 1CA |
| | 3200 | ... 130 | | **3WL9212-5GD□□-□□C1** | | 1 | 1 unit | 1CA |
| | 4000 | ... 100 | | **3WL9212-6GD□□-□□H1** | | 1 | 1 unit | 1CA |
| III | 4000 | ... 100 | | **3WL9213-6GD□□-□□H1** | | 1 | 1 unit | 1CA |
| | 5000 | ... 100 | | **3WL9213-7GD□□-□□H1** | | 1 | 1 unit | 1CA |
| | 6300 | ... 100 | | **3WL9213-8GD□□-□□H1** | | 1 | 1 unit | 1CA |
| | 4000 | ... 130 | | **3WL9213-6GD□□-□□C1** | | 1 | 1 unit | 1CA |
| | 5000 | ... 130 | | **3WL9213-7GD□□-□□C1** | | 1 | 1 unit | 1CA |
| | 6300 | ... 130 | | **3WL9213-8GD□□-□□C1** | | 1 | 1 unit | 1CA |
| **Main circuit connection connecting flanges** | | | | | | | | |
| I | 1000 | ... 55 | | **3WL9211-1GE□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 55 | | **3WL9211-2GE□□-□□N1** | | 1 | 1 unit | 1CA |
| | 2000 | ... 55 | | **3WL9211-3GE□□-□□N1** | | 1 | 1 unit | 1CA |
| | 1000 | ... 66 | | **3WL9211-1GE□□-□□S1** | | 1 | 1 unit | 1CA |
| | 1600 | ... 66 | | **3WL9211-2GE□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000 | ... 66 | | **3WL9211-3GE□□-□□S1** | | 1 | 1 unit | 1CA |
| | 2000[1] | ... 85 | | **3WL9211-3GE□□-□□H1** | | 1 | 1 unit | 1CA |
| II | 2000 | ... 100 | | **3WL9212-3GE□□-□□H1** | | 1 | 1 unit | 1CA |
| | 2500 | ... 100 | | **3WL9212-4GE□□-□□H1** | | 1 | 1 unit | 1CA |
| | 3200 | ... 100 | | **3WL9212-5GE□□-□□H1** | | 1 | 1 unit | 1CA |
| III | 4000 | ... 100 | | **3WL9213-6GE□□-□□H1** | | 1 | 1 unit | 1CA |

| **Options** | | | | | | | | Additional price |
|---|---|---|---|---|---|---|---|---|
| **Number of auxiliary supply connectors** | None[4] | | **0** | | | | | **None** |
| | 1 connector | | **1** | | | | | ✓ |
| | 2 connectors | | **2** | | | | | ✓ |
| | 3 connectors | | **3** | | | | | ✓ |
| | 4 connectors | | **4** | | | | | ✓ |
| Note | | | | | | | | |
| For required number of auxiliary supply connectors, see table on page 1/56. | | | | | | | | |
| **Type of auxiliary circuit connections** | None | | | **0** | | | | **None** |
| | With screw connection (SIGUT, standard) | | | **1** | | | | ✓ |
| | With screwless connection method (tension spring) | | | **2** | | | | ✓ |
| **Position signaling switches** | None | | | | **0** | | | **None** |
| | Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO | | | | **1** | | | ✓ |
| | Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO | | | | **2** | | | ✓ |
| **Shutters** | None | | | | | **A** | | **None** |
| | With shutter, 2-part, lockable | Size I | | | | **B** | | ✓ |
| | | Size II | | | | **B** | | ✓ |
| | | Size III | | | | **B** | | ✓ |

1) For 3WL1 circuit breakers size I from 630 A to 2000 A with high breaking capacity H.

2) Front connections are tinned as standard.

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

4) Can only be selected if the number of auxiliary supply connectors = 0.

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## Accessories and spare parts

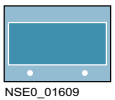
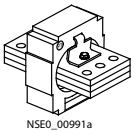
| Add "**-Z**" to the complete Article No. and indicate the appropriate order code(s). | **3WL921.-.....-....-Z** □ □ □ | Additional price |
|---|---|---|
| **Rated voltage 1000 V AC and 690 V IT networks** | | |
| Size I (breaking capacity H; not for breaking capacity N and S) | **A 0 5** | ✓ |
| Size II (breaking capacity H), not for breaking capacities N, S and C | **A 0 5** | ✓ |
| Size III (breaking capacity H and C) | **A 0 5** | ✓ |
| **Rated voltage 1150 V AC** | | |
| Size II, except breaking capacity C and 4000 A (breaking capacity H) | **A 1 5** | ✓ |
| Size III, breaking capacity H | **A 1 5** | ✓ |
| **Rated voltage 690 V AC (+ 20 %)** | | |
| Size I (breaking capacity H) | **A 1 6** | ✓ |
| **Tinned version of the customer's connections on the guide frame[1)2)]<br>Only for guide frames with horizontal connection or flange connection** | | |
| Size I | **A 0 8** | ✓ |
| Size II | **A 0 8** | ✓ |
| Size III | **A 0 8** | ✓ |
| Notes | | |
| • For vertical main circuit connection and main circuit connection connecting flange, see the following page.<br>• All other accessory parts must be ordered by specifying "-Z" and the corresponding order code, see page 1/49 to page 1/55. | | |



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

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| | Designation | | | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
|  NSE0_01610b<br>3WL931.-.AA.0-0AA1 | **Protective device with device holder and optional metering function**[1] | | | | | | | | |
| | Type | With protection function | Metering function | | | | | | |
| | ETU15B | LI | None | | **3WL9311-5AA00-0AA2** | | 1 | 1 unit | 1CA |
| | ETU25B | LSI | None | | **3WL9312-5AA00-0AA2** | | 1 | 1 unit | 1CA |
| | ETU27B | LSING | None | | **3WL9312-7AA00-0AA2** | | 1 | 1 unit | 1CA |
| | ETU45B (without display) | LSIN(G) | None | | **3WL9314-5AA00-0AA2** | | 1 | 1 unit | 1CA |
| | | | With metering function *Plus* NEW | | **3WL9314-5AA30-0AA2** | | 1 | 1 unit | 1CA |
| | ETU76B | LSIN(G) | None | | **3WL9317-6AA00-0AA2** | | 1 | 1 unit | 1CA |
| | | | With metering function *Plus* NEW | | **3WL9317-6AA30-0AA2** | | 1 | 1 unit | 1CA |
|  NSE0_00992b<br>3WL9111-0AA64-0AA0 | **Rating plugs**[2] | | | | | | | | |
| | Size | | Rated current $I_n$ A | | | | | | |
| | I, II | | 250 | | **3WL9111-0AA51-0AA0** | | 1 | 1 unit | 1CA |
| | | | 315 | | **3WL9111-0AA52-0AA0** | | 1 | 1 unit | 1CA |
| | | | 400 | | **3WL9111-0AA53-0AA0** | | 1 | 1 unit | 1CA |
| | | | 500 | | **3WL9111-0AA54-0AA0** | | 1 | 1 unit | 1CA |
| | | | 630 | | **3WL9111-0AA55-0AA0** | | 1 | 1 unit | 1CA |
| | | | 800 | | **3WL9111-0AA56-0AA0** | | 1 | 1 unit | 1CA |
| | | | 1000 | | **3WL9111-0AA57-0AA0** | | 1 | 1 unit | 1CA |
| | I, II, III | | 1250 | | **3WL9111-0AA58-0AA0** | | 1 | 1 unit | 1CA |
| | | | 1600 | | **3WL9111-0AA61-0AA0** | | 1 | 1 unit | 1CA |
| | | | 2000 | | **3WL9111-0AA62-0AA0** | | 1 | 1 unit | 1CA |
| | II, III | | 2500 | | **3WL9111-0AA63-0AA0** | | 1 | 1 unit | 1CA |
| | | | 3200 | | **3WL9111-0AA64-0AA0** | | 1 | 1 unit | 1CA |
| | | | 4000 | | **3WL9111-0AA65-0AA0** | | 1 | 1 unit | 1CA |
| | III | | 5000 | | **3WL9111-0AA66-0AA0** | | 1 | 1 unit | 1CA |
| | | | 6300 | | **3WL9111-0AA67-0AA0** | | 1 | 1 unit | 1CA |
|  NSE0_01027a<br>3WL9111-0AT53-0AA0 | **Ground-fault modules**[3] | | | | | | | | |
| | Versions | | | | | | | | |
| | • GFM AT 45B (only for ETU45B) alarm and tripping | | | | **3WL9111-0AT53-0AA0** | | 1 | 1 unit | 1CA |
| | • GFM AT 55B–76B (only for ETU76B) alarm and tripping | | | | **3WL9111-0AT56-0AA0** | | 1 | 1 unit | 1CA |
|  NSE0_01609<br>3WL9111-0AT81-0AA0 | **Display**<br>• For ETU45B<br>• 4-line | | | | **3WL9111-0AT81-0AA0** | | 1 | 1 unit | 1CA |
|  NSE0_00990a<br>3WL9111-0AA2.-0AA0 | **Internal current transformers for N conductor**<br>Including wiring kit | | | | | | | | |
| | ETU Release 2 | | Size | | | | | | |
| | -- | | I | | **3WL9111-0AA11-0AA0** | | 1 | 1 unit | 1CA |
| | | | II | | **3WL9111-0AA12-0AA0** | | 1 | 1 unit | 1CA |
| | | | III | | **3WL9111-0AA13-0AA0** | | 1 | 1 unit | 1CA |
| | ✓ | | I | | **3WL9111-0AA14-0AA0** | | 1 | 1 unit | 1CA |
| | | | II | | **3WL9111-0AA15-0AA0** | | 1 | 1 unit | 1CA |
| | | | III | | **3WL9111-0AA16-0AA0** | | 1 | 1 unit | 1CA |
|  NSE0_00991a<br>3WL9111-0AA3.-0AA0 | **External current transformers for N conductor**<br>For T5, "Measurement Method" function, see Technical Information at www.siemens.com/lowvoltage/product-support. | | | | | | | | |
| | Copper connection pieces | | Size | | | | | | |
| | -- | | I | | **3WL9111-0AA21-0AA0** | | 1 | 1 unit | 1CA |
| | | | II | | **3WL9111-0AA22-0AA0** | | 1 | 1 unit | 1CA |
| | | | III | | **3WL9111-0AA23-0AA0** | | 1 | 1 unit | 1CA |
| | ✓ | | I | | **3WL9111-0AA31-0AA0** | | 1 | 1 unit | 1CA |
| | | | II | | **3WL9111-0AA32-0AA0** | | 1 | 1 unit | 1CA |
| | | | III | | **3WL9111-0AA33-0AA0** | | 1 | 1 unit | 1CA |
| | **EMC filters**<br>• Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters)<br>• Insertion loss (asymmetric) in the range 40 kHz to 10 MHz > 40 dB | | | | | | | | |
| | Versions | | | | | | | | |
| | • Only for ETU Release 2 | | | | **3WL9111-0AK34-0AA0** | | 1 | 1 unit | 1CA |

1) For replacement in existing circuit breakers, please specify the circuit breaker ID No. when ordering.

2) With the rating plug selected, the maximum rated current $I_{n\,max}$ of the circuit breaker must not be exceeded. The following applies: $I_n \leq I_{n\,max}$

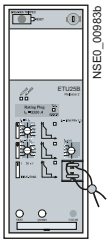
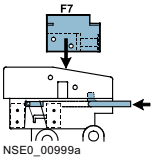
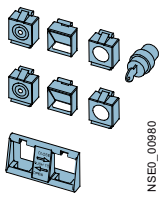
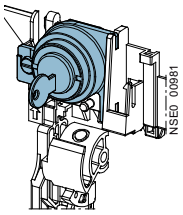
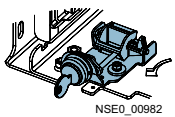
3) For direct measurement of the ground-fault current, e.g. in the neutral point of the transformer, a 1200 A/1 A current transformer, class 1, is required. The internal load of the 3WL circuit breaker is 0.11 Ω. If the ground-fault current is to be determined using the vectorial sum of the phases, a transformer must be installed in the neutral conductor.

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## Accessories and spare parts

| | Designation | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| **More accessories for Electronic Trip Units** | | | | | | | |
|  3WL9111-0AT45-0AA0 | **Sealable and lockable covers** | | | | | | |
| | Versions | | | | | | |
| | • For ETU15B to ETU45B | | **3WL9111-0AT45-0AA0** | | 1 | 1 unit | 1CA |
| | • For ETU76 | | **3WL9111-0AT46-0AA0** | | 1 | 1 unit | 1CA |
| | **Automatic reset of the reclosing lockout** Spare part for option **K01,** see "-Z" + order code, page 1/51. | | **3WL9111-0AK21-0AA0** | | 1 | 1 unit | 1CA |
|  3WL9111-0AK0.-0AA0 | **Remote reset solenoids**[1] • For mechanical tripped indicator • Spare part for options **K10** to **K13,** see "-Z" + order code, page 1/51. | | | | | | |
| | Note | | | | | | |
| | Automatic reset of the reclosing lockout 3WL9111-0AK21-0AA0 also needed. | | | | | | |
| | Versions | | | | | | |
| | • 24 V DC | | **3WL9111-0AK03-0AA0** | | 1 | 1 unit | 1CA |
| | • 48 V DC | | **3WL9111-0AK04-0AA0** | | 1 | 1 unit | 1CA |
| | • 120 V AC/125 V DC | | **3WL9111-0AK05-0AA0** | | 1 | 1 unit | 1CA |
| | • 208-250 V AC/208-250 V DC | | **3WL9111-0AK06-0AA0** | | 1 | 1 unit | 1CA |
| | **Retrofittable internal CubicleBUS wiring for connection to terminal X8** • For ETU45B and ETU76B • With male connector[2] | | **3WL9111-0AK30-0AA0** | | 1 | 1 unit | 1CA |
| | **Retrofittable internal wiring for connection of the external N and G transformers to terminal X8** • Not for ETU Release 2 • Without male connector | | **3WL9111-0AK31-0AA0** | | 1 | 1 unit | 1CA |
| | **Retrofittable internal wiring for connection of the external N and G transformers to terminal X8** • For ETU Release 2 • Without male connector | | **3WL9111-0AK33-0AA0** | | 1 | 1 unit | 1CA |
| **Locking devices** | | | | | | | |
|  3WL9111-0BA22-0AA0 | **Interlocking set for mechanical ON/OFF** • Each consisting of 2 transparent covers for sealing or for attaching padlocks[4] • Cover with 6.35 mm hole (for tool actuation) • Lock mount for safety lock for key operation | | | | | | |
| | Versions | | | | | | |
| | • Without safety lock | | **3WL9111-0BA21-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by CES | | **3WL9111-0BA22-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by IKON | | **3WL9111-0BA24-0AA0** | | 1 | 1 unit | 1CA |
|  3WL9111-0BA31-0AA0 | **Locking devices against unauthorized closing, in the operator panel** • The disconnector unit fulfills the requirements for main circuit breakers acc. to EN 60204-1 • Spare part for options **S01** to **S09,** see "-Z" + order code, page 1/53. | | | | | | |
| | Versions | | | | | | |
| | • Assembly kit FORTRESS or CASTELL[3] | | **3WL9111-0BA31-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by Ronis | | **3WL9111-0BA33-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by KIRK-Key[3] | | **3WL9111-0BA34-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by Profalux | | **3WL9111-0BA35-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by CES | | **3WL9111-0BA36-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by IKON | | **3WL9111-0BA38-0AA0** | | 1 | 1 unit | 1CA |
| | • Assembly kit for padlocks[4] | | **3WL9111-0BA41-0AA0** | | 1 | 1 unit | 1CA |
|  3WL9111-0BA53-0AA0 | **Locking devices against unauthorized closing, for withdrawable circuit breakers** • The disconnector unit fulfills the requirements for main circuit breakers acc. to EN 60204-1 • Consisting of lock in the guide frame, active in connected position, function is retained when circuit breaker is replaced • Spare part for option **R60, R61, R68**, see "-Z" + order code, page 1/53. | | | | | | |
| | Versions | | | | | | |
| | • Made by CES | | **3WL9111-0BA51-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by IKON | | **3WL9111-0BA53-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by KIRK-Key[3] | | **3WL9111-0BA57-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by Ronis | | **3WL9111-0BA58-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by Profalux | | **3WL9111-0BA50-0AA0** | | 1 | 1 unit | 1CA |

[1] Can only be used in conjunction with "automatic reset of reclosing lockout", e.g. "-Z" + "K01", 3WL9111-0AK21-0AA0.

[2] Required if communication is retrofitted.

[3] Locks, cylinders and keys must be ordered from the manufacturer.

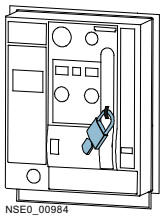
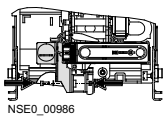
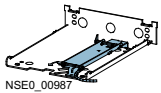
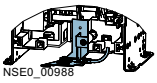
[4] Padlock not included in the scope of supply.



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

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| | Designation | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
|  NSE0_00984 3WL9111-0BA71-0AA0 | **Locking devices for operating mechanism handle with padlock**[1] Spare part for option **S33,** see "-Z" + order code, page 1/53. | | **3WL9111-0BA71-0AA0** | | 1 | 1 unit | 1CA |
|  NSE0_00986 3WL9111-0BA76-0AA0 | **Locking devices to prevent movement of the withdrawable circuit breakers** • Safety lock for mounting on the circuit breaker • Spare part for option **S71, S75, S76,** see "-Z" + order code, page 1/53. | | | | | | |
| | Versions | | | | | | |
| | • Made by CES | | **3WL9111-0BA73-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by IKON | | **3WL9111-0BA75-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by Profalux | | **3WL9111-0BA76-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by Ronis | | **3WL9111-0BA77-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by KIRK-Key[2] | | **3WL9111-0BA80-0AA0** | | 1 | 1 unit | 1CA |
| | **Interlocking systems** • Made by CES • 2 of the same keys for 3 circuit breakers • Locking device in OFF position • Lock in the operator panel • A maximum of 2 circuit breakers can be switched on | | **3WL9111-0BA43-0AA0** | | 1 | 1 unit | 1CA |
| **Locking mechanisms** | | | | | | | |
|  NSE0_00987 3WL9111-0BA83-0AA0 | **Locking mechanisms to prevent movement of the withdrawable circuit breakers in disconnected position** • Consisting of Bowden cable and lock in the cabinet door on the circuit breaker • Spare part for option **R81**, **R85**, **R86,** see "-Z" + order code, page 1/49. | | | | | | |
| | Versions | | | | | | |
| | • Made by CES | | **3WL9111-0BA81-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by IKON | | **3WL9111-0BA83-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by Profalux | | **3WL9111-0BA85-0AA0** | | 1 | 1 unit | 1CA |
| | • Made by Ronis | | **3WL9111-0BA86-0AA0** | | 1 | 1 unit | 1CA |
| | Note | | | | | | |
| | Not possible in combination with "Locking mechanism to prevent opening of the cabinet door" (order code "R30") or "Locking mechanism to prevent movement with the cabinet door open" (order code "R50"). | | | | | | |
|  NSE0_00988 3WL9111-0BB12-0AA0 | **Locking mechanisms to prevent opening of the cabinet door in ON position** • Fixed-mounted • Can be defeated • Spare part for option **S30,** see "-Z" + order code, page 1/53. | | **3WL9111-0BB12-0AA0** | | 1 | 1 unit | 1CA |
| | **Locking mechanisms to prevent opening of the cabinet door** • Guide frames • Can be defeated • Spare part for option **R30,** see "-Z" + order code, page 1/53. | | **3WL9111-0BB13-0AA0** | | 1 | 1 unit | 1CA |
| | Note | | | | | | |
| | Not possible in combination with "Locking device to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86"). | | | | | | |
| | **Locking mechanisms to prevent movement with the cabinet door open** • Guide frames • Spare part for option **R50,** see "-Z" + order code, page 1/53. | | **3WL9111-0BB15-0AA0** | | 1 | 1 unit | 1CA |
| | Note | | | | | | |
| | Not possible in combination with "Locking device to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86"). | | | | | | |

[1] Padlock not included in the scope of supply.

[2] Locks, cylinders and keys must be ordered from the manufacturer.

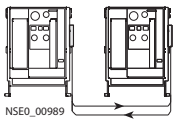
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## Accessories and spare parts

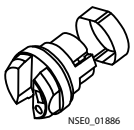
### Interlocks




3WL9111-0BB21-0AA0

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

| Type | When ordered separately | Spare part for | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| Fixed-mounted circuit breakers | -- | Option **S55,** see "-Z" + order code, page 1/53. | | **3WL9111-0BB21-0AA0** | | 1 | 1 unit | 1CA |
| Module for withdrawable circuit breakers with guide frame | -- | Option **R55,** see "-Z" + order code, page 1/53. | | **3WL9111-0BB24-0AA0** | | 1 | 1 unit | 1CA |
| Module for guide frame | ✓ | Option **R56,** see "-Z" + order code, page 1/53. | | **3WL9111-0BB22-0AA0** | | 1 | 1 unit | 1CA |
| Module for withdrawable circuit breaker | ✓ | Option **R57,** see "-Z" + order code, page 1/53. | | **3WL9111-0BB23-0AA0** | | 1 | 1 unit | 1CA |
| Adapter for size III withdrawable circuit breaker | ✓ | -- | | **3WL9111-0BB30-0AA0** | | 1 | 1 unit | 1CA |




3WL9112-8HA47-0AA0

**Couplings on the circuit breaker (with ring) for mutual interlocking**
Can be used in all circuit breakers

**3WL9112-8AH47-0AA0** | 1 | 1 unit | 1CA

**Bowden cables**

| Versions | | | | |
|---|---|---|---|---|
| 2000 mm | **3WL9111-0BB45-0AA0** | 1 | 1 unit | 1CA |
| 3000 mm | **3WL9111-0BB46-0AA0** | 1 | 1 unit | 1CA |
| 4500 mm | **3WL9111-0BB47-0AA0** | 1 | 1 unit | 1CA |

### Transfer control devices



3KC9000-8TL40
3KC9000-8EL10

**3KC ATC6300 and ATC3100 transfer control devices**

For combination with two air circuit breakers/molded case circuit breakers for changeover according to IEC 60947-6-1.

For more information,
see see chapter "Transfer Switching Equipment and Load Transfer Switches".

### Test devices

**Manual tester Release 2 for Electronic Trip Units ETU15B to ETU76B**
For testing the Electronic Trip Unit functions of all 3WL ETUs (release 1 and release 2)

**3WL9111-0AT32-0AA0** | 1 | 1 unit | 1CA

**Function testers**
For testing the tripping characteristics for Electronic Trip Units ETU15B to ETU76B

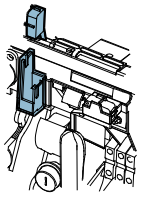
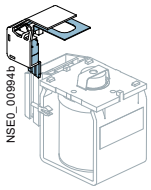
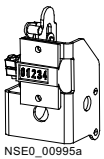
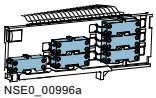
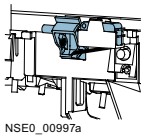
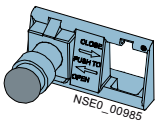
**3WL9111-0AT44-0AA0** | 1 | 1 unit | 1CA



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

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| | Designation | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| **Indicators, control elements** | | | | | | | |
|  NSE0_00993a<br>3WL9111-0AH01-0AA0 | **Ready-to-close signaling switches (S20)**<br>• 1 NO contact<br>• Spare part for option **C22,** see "-Z" + order code, page 1/51. | | **3WL9111-0AH01-0AA0** | | 1 | 1 unit | 1CA |
|  NSE0_00994b<br>3WL9111-0AH02-0AA0 | **Signaling switches[1)2)] (S22 or S23)**<br>• 1st or 2nd auxiliary release<br>• Spare part for option **C26** and **C27,** see "Z" + order code, see page 1/51. | | **3WL9111-0AH02-0AA0** | | 1 | 1 unit | 1CA |
| | **1st tripped signaling switch[1)2)] (S24)**<br>• 1 CO contact<br>• Spare part for option **K07,** see "-Z" + order code, page 1/51. | | **3WL9111-0AH14-0AA0** | | 1 | 1 unit | 1CA |
| | **2nd tripped signaling switch[1)2)3)] (S25)**<br>• 1 NO contact<br>• Spare part for option **K06,** see "-Z" + order code, page 1/51. | | **3WL9111-0AH17-0AA0** | | 1 | 1 unit | 1CA |
|  NSE0_00995a<br>3WL9111-0AH07-0AA0 | **Operating cycles counter**<br>• Mechanical[4)]<br>• Spare part for option **C01,** see "-Z" + order code, page 1/51. | | **3WL9111-0AH07-0AA0** | | 1 | 1 unit | 1CA |
| | **Spring charged signaling switches[1)2)]**<br>• 1 NO contact<br>• Spare part for option **C20,** see "-Z" + order code, page 1/51. | | **3WL9111-0AH08-0AA0** | | 1 | 1 unit | 1CA |
|  NSE0_00996a<br>3WL9111-0AH12-0AA0 | **Position signaling switches for guide frames**<br>Spare part for option **R15** and **R16,** see "Z" + order code, page 1/52.<br>Versions<br>• 1st block (3 CO contacts)<br>• 2nd block (6 CO contacts) | | <br><br>**3WL9111-0AH11-0AA0**<br>**3WL9111-0AH12-0AA0** | | <br><br>1<br>1 | <br><br>1 unit<br>1 unit | <br><br>1CA<br>1CA |
|  NSE0_00997a<br>3WL9111-0AJ0.-0AA0 | **Electrical ON buttons[1)5)] (S10)**<br>• Button + wiring[2)]<br>• For operator panel<br>• Spare part for option **C11** and **C12**, see "Z" + order code, page 1/51.<br>Versions<br>• With sealing cap **C11**<br>• With CES assembly kit **C12**<br>• With IKON assembly kit<br>Note<br>Possible only for circuit breakers with closing coil. | | <br><br><br><br>**3WL9111-0AJ02-0AA0**<br>**3WL9111-0AJ03-0AA0**<br>**3WL9111-0AJ05-0AA0** | | <br><br><br><br>1<br>1<br>1 | <br><br><br><br>1 unit<br>1 unit<br>1 unit | <br><br><br><br>1CA<br>1CA<br>1CA |
| | **Motor shutdown switches[6)] (S12)**<br>• Mounting on operator panel<br>• Spare part for option **S25,** see "-Z" + order code, page 1/51. | | **3WL9111-0AJ06-0AA0** | | 1 | 1 unit | 1CA |
|  NSE0_00985<br>3WL9111-0BA72-0AA0 | **EMERGENCY-STOP pushbuttons**<br>• Mushroom pushbutton instead of the mechanical OFF pushbutton<br>• Spare part for option **S24,** see "-Z" + order code, page 1/51. | | **3WL9111-0BA72-0AA0** | | 1 | 1 unit | 1CA |

1) Not possible with "communications interface" option, order code "F02", "F12" or "F35".

2) X7 auxiliary supply connector required for circuit breakers or guide frames. If this is not already available, please order additionally (see page 1/56 and page 1/70).

3) Can only be used in combination with 1st tripped signaling switch.

4) Only in conjunction with motorized operating mechanism.

5) Not possible with motor shutdown switch.

6) Not possible with electrical ON button.

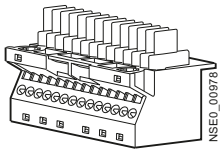
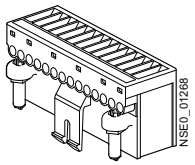
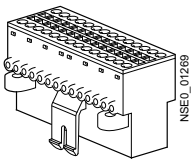
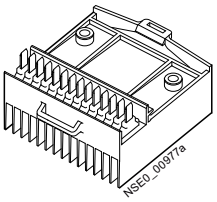
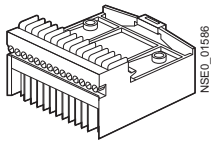
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## Accessories and spare parts

### Auxiliary conductor connections

| | Designation | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
|  3WL9111-0AB01-0AA0 | **Male connectors for circuit breakers** ① | | **3WL9111-0AB01-0AA0** | | 1 | 1 unit | 1CA |
| | **Extension for the 1000 V male connector versions**<br>Male connector must be ordered separately. | | **3WL9111-0AB02-0AA0** | | 1 | 1 unit | 1CA |
| | **Male connectors and extension for 1000 V** | | **3WL9111-0AB10-0AA0** | | 1 | 1 unit | 1EA |
|  3WL9111-0AB03-0AA0 | **Auxiliary supply connectors for circuit breakers or guide frames** ② | | | | | | |
| | Versions | | | | | | |
| | • Screw connection (SIGUT)<br>• Screwless connection method (tension spring) | | **3WL9111-0AB03-0AA0**<br>**3WL9111-0AB04-0AA0** | | 1<br>1 | 1 unit<br>1 unit | 1CA<br>1CA |
|  3WL9111-0AB04-0AA0 | | | | | | | |
|   3WL9111-0AB07-0AA0 | **Coding kits**<br>For fixed-mounted versions (X5 to X8) ③ | | **3WL9111-0AB07-0AA0** | | 1 | 1 unit | 1CA |
|  3WL9111-0AB08-0AA0 | **Sliding contact modules for guide frames** ④ | | **3WL9111-0AB08-0AA0** | | 1 | 1 unit | 1CA |
|  3WL9111-0AB18-0AA0 | **One-part sliding contact modules for guide frames**<br>Screw connection (SIGUT) ⑤ | | **3WL9111-0AB18-0AA0** | | 1 | 1 unit | 1CA |
| | **Blanking blocks for circuit breakers** | | **3WL9111-0AB12-0AA0** | | 1 | 1 unit | 1CA |

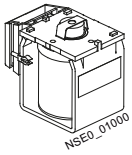
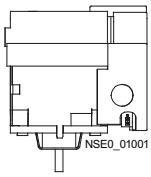
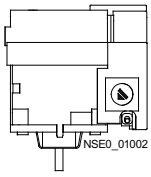
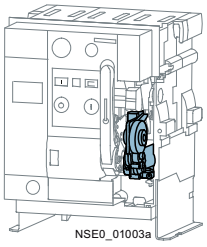
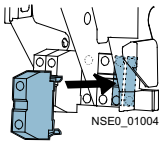
For a complete auxiliary current connection you must order:
Fixed-mounted version: ① + ② + ③
Withdrawable version: ① + ④ + ② or ① + ⑤



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

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| | Designation | | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| **Auxiliary releases** | | | | | | | | |
|  NSE0_01000 3WL9111-0AD06-0AA0 | **Closing coils/shunt releases** | | | | | | | |
| | Versions | Voltage | | | | | | |
| | 100 % OP | 24 V DC | | **3WL9111-0AD01-0AA0** | | 1 | 1 unit | 1CA |
| | | 30 V DC | | **3WL9111-0AD02-0AA0** | | 1 | 1 unit | 1CA |
| | | 48 V DC | | **3WL9111-0AD03-0AA0** | | 1 | 1 unit | 1CA |
| | | 60 V DC | | **3WL9111-0AD04-0AA0** | | 1 | 1 unit | 1CA |
| | | 110 ... 125 V DC/110 ... 127 V AC | | **3WL9111-0AD05-0AA0** | | 1 | 1 unit | 1CA |
| | | 220 ... 250 V DC/208 ... 240 V AC | | **3WL9111-0AD06-0AA0** | | 1 | 1 unit | 1CA |
| | 5 % OP[1] | 24 V DC | | **3WL9111-0AD11-0AA0** | | 1 | 1 unit | 1CA |
| | | 48 V DC | | **3WL9111-0AD12-0AA0** | | 1 | 1 unit | 1CA |
| | | 110 ... 125 V DC/110 ... 127 V AC | | **3WL9111-0AD13-0AA0** | | 1 | 1 unit | 1CA |
| | | 220 ... 250 V DC/208 ... 240 V AC | | **3WL9111-0AD14-0AA0** | | 1 | 1 unit | 1CA |
|  NSE0_01001 3WL9111-0AE0.-0AA0 | **Undervoltage releases** | | | | | | | |
| | Versions | Voltage | | | | | | |
| | Instantaneous | 24 V DC | | **3WL9111-0AE01-0AA0** | | 1 | 1 unit | 1CA |
| | | 30 V DC | | **3WL9111-0AE02-0AA0** | | 1 | 1 unit | 1CA |
| | | 48 V DC | | **3WL9111-0AE03-0AA0** | | 1 | 1 unit | 1CA |
| | | 60 V DC | | **3WL9111-0AE07-0AA0** | | 1 | 1 unit | 1CA |
| | | 110 ... 125 V DC/110 ... 127 V AC | | **3WL9111-0AE04-0AA0** | | 1 | 1 unit | 1CA |
| | | 220 ... 250 V DC/208 ... 240 V AC | | **3WL9111-0AE05-0AA0** | | 1 | 1 unit | 1CA |
| | | 380 ... 415 V AC | | **3WL9111-0AE06-0AA0** | | 1 | 1 unit | 1CA |
|  NSE0_01002 3WL9111-0AE1.-0AA0 | Delayed | 48 V DC | | **3WL9111-0AE11-0AA0** | | 1 | 1 unit | 1CA |
| | | 110 ... 125 V DC/110 ... 127 V AC | | **3WL9111-0AE12-0AA0** | | 1 | 1 unit | 1CA |
| | | 220 ... 250 V DC/208 ... 240 V AC | | **3WL9111-0AE13-0AA0** | | 1 | 1 unit | 1CA |
| | | 380 ... 415 V AC | | **3WL9111-0AE14-0AA0** | | 1 | 1 unit | 1CA |
| **Operating mechanisms** | | | | | | | | |
|  NSE0_01003a 3WL9111-0AF0.-0AA0 | **Motorized operating mechanisms[2]** | | | | | | | |
| | Versions | | | | | | | |
| | • 24 ... 30 V DC | | | **3WL9111-0AF01-0AA0** | | 1 | 1 unit | 1CA |
| | • 48 ... 60 V DC | | | **3WL9111-0AF02-0AA0** | | 1 | 1 unit | 1CA |
| | • 110 ... 125 V DC/110 ... 127 V AC | | | **3WL9111-0AF03-0AA0** | | 1 | 1 unit | 1CA |
| | • 220 ... 250 V DC/208 ... 240 V AC | | | **3WL9111-0AF04-0AA0** | | 1 | 1 unit | 1CA |
| **Auxiliary contacts** | | | | | | | | |
|  NSE0_01004 3WL9111-0AG03-0AA0 | **Auxiliary switch blocks** | | | | | | | |
| | Versions | | | | | | | |
| | • 2 NO contacts + 2 NC contacts | | | **3WL9111-0AG01-0AA0** | | 1 | 1 unit | 1CA |
| | • 2 NO contacts | | | **3WL9111-0AG02-0AA0** | | 1 | 1 unit | 1CA |
| | • 1 NO contact + 1 NC contact | | | **3WL9111-0AG03-0AA0** | | 1 | 1 unit | 1CA |

[1] Overexcited, i.e. switching time 50 ms (standard > 80 ms).

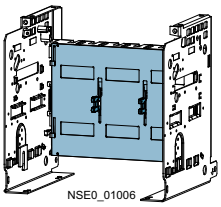
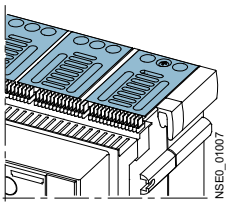
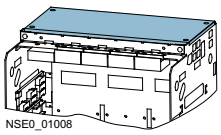
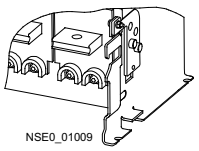
[2] X5 auxiliary supply connector required for circuit breakers or guide frames. If this is not already available, please order additionally (see page 1/56 and page 1/59).

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## Accessories and spare parts

| | Designation | | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| **Door sealing frames, hoods, shutters** | | | | | | | | |
| | **Door sealing frames**<br>Spare part for option **T40,** see "-Z" + order code, page 1/51. | | | **3WL9111-0AP01-0AA0** | | 1 | 1 unit | 1CA |
| | **Protective covers**<br>IP55 | | | **3WL9111-0AP02-0AA0** | | 1 | 1 unit | 1CA |
| | Notes | | | | | | | |
| | • Cannot be used in conjunction with door sealing frames<br>• Hood removable and can be opened on both sides | | | | | | | |
|  <br>3WL9111-0AP0.-0AA0 | **Shutters**<br>Spare part for option **R21,** see "-Z" + order code, page 1/52. | | | | | | | |
| | Number of poles | Size | | | | | | |
| | 3-pole | I | | **3WL9111-0AP04-0AA0** | | 1 | 1 unit | 1CA |
| | | II[1] | | **3WL9111-0AP06-0AA0** | | 1 | 1 unit | 1CA |
| | | II C | | **3WL9111-0AP43-0AA0** | | 1 | 1 unit | 1CA |
| | | III | | **3WL9111-0AP07-0AA0** | | 1 | 1 unit | 1CA |
| | 4-pole | I | | **3WL9111-0AP08-0AA0** | | 1 | 1 unit | 1CA |
| | | II[1] | | **3WL9111-0AP11-0AA0** | | 1 | 1 unit | 1CA |
| | | II C | | **3WL9111-0AP44-0AA0** | | 1 | 1 unit | 1CA |
| | | III | | **3WL9111-0AP12-0AA0** | | 1 | 1 unit | 1CA |
| **Arc chutes** | | | | | | | | |
|  <br>3WL9111-0AS0.-0AA0 | **Arc chutes** | | | | | | | |
| | Versions | Size | | | | | | |
| | 690 V | I | | **3WL9111-0AS01-0AA0** | | 1 | 1 unit | 1CA |
| | | II[1] | | **3WL9111-0AS02-0AA0** | | 1 | 1 unit | 1CA |
| | | II C | | **3WL9111-0AS10-0AA0** | | 1 | 1 unit | 1CA |
| | | III | | **3WL9111-0AS03-0AA0** | | 1 | 1 unit | 1CA |
| | 1000 V/1150 V | II | | **3WL9111-0AS05-0AA0** | | 1 | 1 unit | 1CA |
| | | III | | **3WL9111-0AS06-0AA0** | | 1 | 1 unit | 1CA |
|  <br>3WL9111-0AS3.-0AA0 | **Arc chute covers**[2]<br>• Parts kit for guide frame<br>• Spare part for option **R10,** see "-Z" + order code, page 1/52. | | | | | | | |
| | Number of poles | Size | | | | | | |
| | 3-pole | I | | **3WL9111-0AS32-0AA0** | | 1 | 1 unit | 1CA |
| | | II | | **3WL9111-0AS36-0AA0** | | 1 | 1 unit | 1CA |
| | | III | | **3WL9111-0AS38-0AA0** | | 1 | 1 unit | 1CA |
| | 4-pole | I | | **3WL9111-0AS42-0AA0** | | 1 | 1 unit | 1CA |
| | | II | | **3WL9111-0AS44-0AA0** | | 1 | 1 unit | 1CA |
| | | III | | **3WL9111-0AS46-0AA0** | | 1 | 1 unit | 1CA |
| **Coding for withdrawable version** | | | | | | | | |
|  <br>3WL9111-0AR12-0AA0<br>3WL9111-0AR13-0AA0 | **Coding for withdrawable version**<br>By customer, for 36 coding variants | | | | | | | |
| | Versions | | | | | | | |
| | • Sizes I and II | | | **3WL9111-0AR12-0AA0** | | 1 | 1 unit | 1CA |
| | • Size III | | | **3WL9111-0AR13-0AA0** | | 1 | 1 unit | 1CA |

[1] Cannot be used for 3WL1 size II with very high breaking capacity C

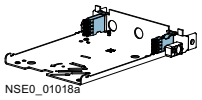
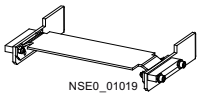
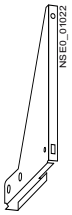
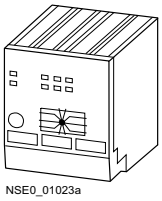
[2] Not available for:
- 1000 V version (order code "A05")
- 1150 V version (order code "A15")
- DC version
- 4000 A size II
- Circuit breakers with very high breaking capacity C



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

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| | Designation | | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| **Grounding connection** | | | | | | | | |
|  NSE0_01018a 3WL9111-0BA02-0AA0 | **Grounding connection between the guide frame and the withdrawable circuit breaker**<br>• For 30 kA ground short-circuit current[1]<br>• Contacting modules for guide frame | | | | | | | |
| | Versions | | | | | | | |
| | • Sizes I and II[2]<br>• Size III | | | **3WL9111-0BA01-0AA0**<br>**3WL9111-0BA02-0AA0** | | 1<br>1 | 1 unit<br>1 unit | 1CA<br>1CA |
|  NSE0_01019 3WL9111-0BA07-0AA0 | **Contact modules for withdrawable circuit breakers** | | | | | | | |
| | Number of poles | Size | | | | | | |
| | 3-pole | I<br>II[2]<br>III | | **3WL9111-0BA05-0AA0**<br>**3WL9111-0BA06-0AA0**<br>**3WL9111-0BA07-0AA0** | | 1<br>1<br>1 | 1 unit<br>1 unit<br>1 unit | 1CA<br>1CA<br>1CA |
| | 4-pole | I<br>II[2]<br>III | | **3WL9111-0BA08-0AA0**<br>**3WL9111-0BA04-0AA0**<br>**3WL9111-0BA10-0AA0** | | 1<br>1<br>1 | 1 unit<br>1 unit<br>1 unit | 1CA<br>1CA<br>1CA |
| **Support brackets** | | | | | | | | |
|  NSE0_01022 3WL9111-0BB50-0AA0 | **Support brackets**<br>• For mounting fixed-mounted circuit breakers on vertical plane<br>• Only for sizes I and II (1 set = 2 units) | | | **3WL9111-0BB50-0AA0** | | 1 | 1 unit | 1CA |
| **CubicleBUS modules**[3][6] | | | | | | | | |
|  NSE0_01023a 3WL9111-0AT23-0AA0 | **Digital output modules with rotary coding switch, relay outputs** | | | **3WL9111-0AT26-0AA0** | | 1 | 1 unit | 1CA |
| | **Digital output modules, configurable, relay outputs** | | | **3WL9111-0AT20-0AA0** | | 1 | 1 unit | 1CA |
| | **Digital input modules** | | | **3WL9111-0AT27-0AA0** | | 1 | 1 unit | 1CA |
| | **Analog output modules** | | | **3WL9111-0AT23-0AA0** | | 1 | 1 unit | 1CA |
| | **Zone Selective Interlocking modules** | | | **3WL9111-0AT21-0AA0** | | 1 | 1 unit | 1CA |
| **Parameterization systems**[4] | | | | | | | | |
| | **powerconfig commissioning and service software**<br>• Parameterization, operation, monitoring and diagnostics of 3WL air circuit breakers using powerconfig software, see see chapter “Software”, "Configuring, Visualizing and Controlling with SENTRON".<br>• powerconfig is available free of charge at http://support.automation.siemens.com/WW/view/en/63452759 | | | | | | | |

1) For 60 kA ground short-circuit current, order 2.

2) Cannot be used for size II with very high breaking capacity C and size II, 4000 A.

3) Each **Cubicle**BUS module is supplied with a 0.2 m pre-assembled cable to connect the modules with each other. A longer pre-assembled cable is required for connection to the circuit breaker.

4) All communication components, **Cubicle**BUS modules and metering functions are available for the ETU45B and ETU76B Electronic Trip Units.

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## Accessories and spare parts

| | Designation | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| **Accessories for communication**[3] | | | | | | | |
| | **Pre-assembled cables for Cubicle**BUS **modules** | | | | | | |
| | Versions | | | | | | |
| | • 0.5 m long, for connection to 3WL with COM15/COM16 | | **3WL9111-0BC04-0AA0** | | 1 | 1 unit | 1CA |
| | • 1 m long, for connection to 3WL with COM15/COM16 | | **3WL9111-0BC02-0AA0** | | 1 | 1 unit | 1CA |
| | • 2 m long, for connection to 3WL with COM15/COM16 | | **3WL9111-0BC03-0AA0** | | 1 | 1 unit | 1CA |
| | • 2 m long, for connection to 3WL without COM15/COM16 | | **3WL9111-0BC05-0AA0** | | 1 | 1 unit | 1CA |
| | **SENTRON manual for communication solutions**<br>• Detailed description of the communication functions for circuit breakers. Installation, connection, commissioning, data transmission to the PLC.<br>• Free download from: www.siemens.com/lowvoltage/manuals | | | | | | |
| | **Voltage transformers**<br>• 3-pole, for 3WL circuit breakers with metering function *Plus*[1]<br>• 380 ... 690 V/100 V, class 0.5 | | **3WL9111-0BB68-0AA0** | | 1 | 1 unit | 1CA |
| **Retrofitting and spare parts**[3] [4] | | | | | | | |
|  3WL9111-0AT65-0AA0 | **COM35 PROFINET IO / Modbus TCP modules** NEW<br>For ETU45B and ETU76B Electronic Trip Units | | **3WL9111-0AT65-0AA0** | | 1 | 1 unit | 1CA |
| | **PROFINET IO / Modbus TCP retrofit kits** NEW<br>Retrofit kit for PROFINET IO / Modbus TCP communication including COM35, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B Electronic Trip Units | | **3WL9111-0AT66-0AA0** | | 1 | 1 unit | 1CA |
| | **PROFIBUS retrofit kits**<br>Retrofit kit for PROFIBUS communications including COM15, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B Electronic Trip Units | | **3WL9111-0AT12-0AA0** | | 1 | 1 unit | 1CA |
|  3WL9111-0AT15-0AA0 | **COM15 PROFIBUS modules**<br>For ETU45B and ETU76B Electronic Trip Units | | **3WL9111-0AT15-0AA0** | | 1 | 1 unit | 1CA |
| | **COM16 Modbus RTU modules**<br>For ETU45B and ETU76B Electronic Trip Units | | **3WL9111-0AT17-0AA0** | | 1 | 1 unit | 1CA |
| | **Modbus RTU IEC retrofit kit**<br>Retrofit kit for Modbus communications including COM16, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B Electronic Trip Units | | **3WL9111-0AT18-0AA0** | | 1 | 1 unit | 1CA |
| | **Additional parts for retrofitting the COM15/COM16/ COM35 communication modules**<br>In withdrawable version 3WL circuit breakers with Z options:<br>• A05 (1000 V AC) or<br>• A15 (1150 V AC) or<br>• A16 (690 V + 20 %) | | | | | | |
| | Size | | | | | | |
| | I | | **3WL9111-0AT62-0AA0** | | 1 | 1 unit | 1CA |
| | II/III | | **3WL9111-0AT63-0AA0** | | 1 | 1 unit | 1CA |
| | **Breaker Status Sensor (BSS)**<br>For ETU45B and ETU76B Electronic Trip Units | | **3WL9111-0AT16-0AA0** | | 1 | 1 unit | 1CA |

1) Is required for operation of the metering function *Plus*.

2) All communication components, **Cubicle**BUS modules and metering functions are available for the ETU45B and ETU76B Electronic Trip Units.

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



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

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| | Designation | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| **Capacitor storage devices** | | | | | | | |
| | **Capacitor storage devices**<br>• For shunt releases<br>• Storage time 5 min | | **3WL9111-0BA14-0AA0** | | 1 | 1 unit | 1CA |
| | Rated control supply voltage/rated operational voltage<br>50/60 Hz V AC / V DC: 220 ... 240 / 220 ... 250 | | | | | | |
| | Note<br>• Rated control supply voltage must match the rated control supply voltage of the shunt release.<br>• Suitable also for 3VL, 3VA and 3WN circuit breakers. | | | | | | |
| **Spare parts** NEW | | | | | | | |
| | **Metering function *Plus*[1] for retrofitting**<br>As spare part or for retrofitting the metering function Plus with an external voltage transformer<br>• For ETUs Release 2<br>• Voltage transformer required<br>• Voltage converter required<br>• A measuring accuracy of 3 % is reached if retrofitted. | | **3WL9111-0AT05-0AA0** | | 1 | 1 unit | 1CA |
| | **Voltage converters**<br>As spare part or for retrofitting the metering function Plus | | **3WL9111-0AT06-0AA0** | | 1 | 1 unit | 1CA |
| | **Components for conversion of existing internal voltage tap[2]**<br>• Conversion requires 3 components for 3-pole 3WL<br>• Conversion requires 4 components for 4-pole 3WL<br>• Conversion of a metering function (Z option A05) is not possible.<br>Conversion of the internal voltage tap on the main contacts from bottom to top<br>Size | | | | | | |
| | I | | **3WL9111-0AT71-0AA0** | | 1 | 1 unit | 1CA |
| | II | | **3WL9111-0AT72-0AA0** | | 1 | 1 unit | 1CA |
| | III | | **3WL9111-0AT73-0AA0** | | 1 | 1 unit | 1CA |
| | Conversion of the internal voltage tap on the main contacts from top to bottom<br>Size | | | | | | |
| | I | | **3WL9111-0AT74-0AA0** | | 1 | 1 unit | 1CA |
| | II | | **3WL9111-0AT75-0AA0** | | 1 | 1 unit | 1CA |
| | III | | **3WL9111-0AT76-0AA0** | | 1 | 1 unit | 1CA |
| | **Transformers (without iron core), Rogowski coil only (instrument transformer for the protection function)**<br>Used in converter applications with high harmonic components; can only be used with ETU45B or ETU76B<br>• External 24 V DC supply required<br>• Undervoltage release required<br>Comprises:<br>• Transformer<br>• Warning signs<br>• Manual | | | | | | |
| | Number of poles / Size | | | | | | |
| | 3-pole: I | | **3WL9111-0AA42-0AA0** | | 1 | 1 unit | 1CA |
| | 3-pole: II | | **3WL9111-0AA43-0AA0** | | 1 | 1 unit | 1CA |
| | 3-pole: III | | **3WL9111-0AA44-0AA0** | | 1 | 1 unit | 1CA |
| | 4-pole: I | | **3WL9111-0AA45-0AA0** | | 1 | 1 unit | 1CA |
| | 4-pole: II | | **3WL9111-0AA46-0AA0** | | 1 | 1 unit | 1CA |
| | 4-pole: III | | **3WL9111-0AA47-0AA0** | | 1 | 1 unit | 1CA |

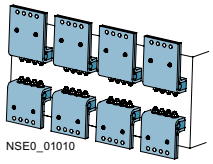
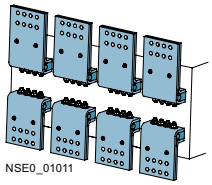
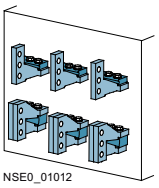
**Minimum order quantity (PS) or a multiple thereof can be ordered.**

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## Accessories and spare parts

| | Designation | | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| **Main conductor connections, fixed-mounted versions (essential accessories)** | | | | | | | | |
| | Specified for each connection | | | | | | | |
| 3WL9111-0AL06-0AA0 | **Front-accessible main connections, single hole at top**[1] | | | | | | | |
|  NSE0_01010 | Size | Rated current $I_n$ | | | | | | |
| | I | Up to 1000 A | | **3WL9111-0AL01-0AA0** | | 1 | 1 unit | 1CA |
| | | 1250 A to 1600 A | | **3WL9111-0AL02-0AA0** | | 1 | 1 unit | 1CA |
| | II[4] | Up to 2000 A | | **3WL9111-0AL03-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 2500 A | | **3WL9111-0AL04-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 3200 A | | **3WL9111-0AL05-0AA0** | | 1 | 1 unit | 1CA |
| | III | Up to 4000 A | | **3WL9111-0AL06-0AA0** | | 1 | 1 unit | 1CA |
| 3WL9111-0AL56-0AA0 | **Front-accessible main connections, single hole at bottom**[1] | | | | | | | |
| | Size | Rated current $I_n$ | | | | | | |
| | I | Up to 1000 A | | **3WL9111-0AL51-0AA0** | | 1 | 1 unit | 1CA |
| | | 1250 A to 1600 A | | **3WL9111-0AL52-0AA0** | | 1 | 1 unit | 1CA |
| | II[4] | Up to 2000 A | | **3WL9111-0AL53-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 2500 A | | **3WL9111-0AL54-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 3200 A | | **3WL9111-0AL55-0AA0** | | 1 | 1 unit | 1CA |
| | III | Up to 4000 A | | **3WL9111-0AL56-0AA0** | | 1 | 1 unit | 1CA |
| 3WL9111-0AL14-0AA0 | **Front-accessible main connections according to DIN 43673, double hole at top** | | | | | | | |
|  NSE0_01011 | Size | Rated current $I_n$ | | | | | | |
| | I | Up to 1000 A[1] | | **3WL9111-0AL07-0AA0** | | 1 | 1 unit | 1CA |
| | | 1250 A to 2000 A | | **3WL9111-0AL08-0AA0** | | 1 | 1 unit | 1CA |
| | II[4] | Up to 2000 A | | **3WL9111-0AL11-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 2500 A | | **3WL9111-0AL12-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 3200 A | | **3WL9111-0AL13-0AA0** | | 1 | 1 unit | 1CA |
| | III | Up to 4000 A | | **3WL9111-0AL14-0AA0** | | 1 | 1 unit | 1CA |
| 3WL9111-0AL64-0AA0 | **Front-accessible main connections according to DIN 43673, double hole at bottom** | | | | | | | |
| | Size | Rated current $I_n$ | | | | | | |
| | I | Up to 1000 A[1] | | **3WL9111-0AL57-0AA0** | | 1 | 1 unit | 1CA |
| | | 1250 A to 2000 A | | **3WL9111-0AL58-0AA0** | | 1 | 1 unit | 1CA |
| | II[4] | Up to 2000 A | | **3WL9111-0AL61-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 2500 A | | **3WL9111-0AL62-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 3200 A | | **3WL9111-0AL63-0AA0** | | 1 | 1 unit | 1CA |
| | III | Up to 4000 A | | **3WL9111-0AL64-0AA0** | | 1 | 1 unit | 1CA |
| | **Rear vertical main connections** | | | | | | | |
|  NSE0_01012 | Size | Rated current $I_n$ | | | | | | |
| | I[2] | Up to 2000 A | | **3WL9111-0AM01-0AA0** | | 1 | 1 unit | 1CA |
| | II[3] | Up to 3200 A | | **3WL9111-0AM02-0AA0** | | 1 | 1 unit | 1CA |
| | III | Up to 6300 A | | **3WL9111-0AM03-0AA0** | | 1 | 1 unit | 1CA |
| 3WL9111-0AM03-0AA0 | | | | | | | | |

1) Not for 3WL1 size I with high breaking capacity H.

2) In the case of vertical connection size I with breaking capacity N and S, up to 1000 A one 3WL9111-0AM01-0AA0 vertical connection is required, up to 2000 A or with breaking capacity H two 3WL9111-0AM01-0AA0 vertical connections are required.

3) In the case of vertical connection size II, up to 2500 A one 3WL9111–0AM02-0AA0 vertical connection is required, up to 3200 A two 3WL9111-0AM02-0AA0 vertical connections are required.

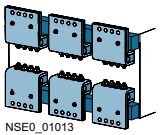
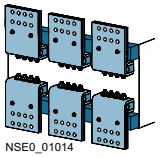
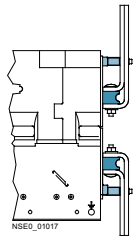
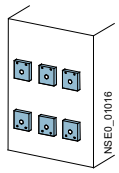
4) Not for circuit breakers with very high breaking capacity C.



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

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| | Designation | | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| **Main conductor connections, withdrawable versions (essential accessories)** | | | | | | | | |
| | Specified for each connection | | | | | | | |
|  NSE0_01013 3WL9111-0AN06-0AA0 | **Front-accessible main connections, single hole at top or at bottom[1) 2)]** | | | | | | | |
| | Size | Rated current $I_n$ | | | | | | |
| | I | Up to 1000 A | | **3WL9111-0AN01-0AA0** | | 1 | 1 unit | 1CA |
| | | 1250 A to 1600 A | | **3WL9111-0AN02-0AA0** | | 1 | 1 unit | 1CA |
| | II[3)] | Up to 2000 A | | **3WL9111-0AN03-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 2500 A | | **3WL9111-0AN04-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 3200 A | | **3WL9111-0AN05-0AA0** | | 1 | 1 unit | 1CA |
| | III | Up to 4000 A | | **3WL9111-0AN06-0AA0** | | 1 | 1 unit | 1CA |
|  NSE0_01014 3WL9111-0AN14-0AA0 | **Front-accessible main connections according to DIN 43673, double hole at top or at bottom[1)]** | | | | | | | |
| | Size | Rated current $I_n$ | | | | | | |
| | I | Up to 1000 A[2)] | | **3WL9111-0AN07-0AA0** | | 1 | 1 unit | 1CA |
| | | 1250 A to 2000 A | | **3WL9111-0AN08-0AA0** | | 1 | 1 unit | 1CA |
| | II[3)] | Up to 2000 A | | **3WL9111-0AN11-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 2500 A | | **3WL9111-0AN12-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 3200 A | | **3WL9111-0AN13-0AA0** | | 1 | 1 unit | 1CA |
| | III | Up to 4000 A | | **3WL9111-0AN14-0AA0** | | 1 | 1 unit | 1CA |
|  NSE0_01017 3WL9111-0AN41-0AA0 | **Supports for front and DIN connecting bars** | | | | | | | |
| | Number of poles | Size | | | | | | |
| | 3-pole for 3 bars | I | | **3WL9111-0AN41-0AA0** | | 1 | 1 unit | 1CA |
| | | II | | **3WL9111-0AN42-0AA0** | | 1 | 1 unit | 1CA |
| | | III | | **3WL9111-0AN43-0AA0** | | 1 | 1 unit | 1CA |
| | 4-pole for 4 bars | I | | **3WL9111-0AN44-0AA0** | | 1 | 1 unit | 1CA |
| | | II | | **3WL9111-0AN45-0AA0** | | 1 | 1 unit | 1CA |
| | | III | | **3WL9111-0AN46-0AA0** | | 1 | 1 unit | 1CA |
|  NSE0_01015 3WL9111-0AN23-0AA0 | **Rear vertical main connections** | | | | | | | |
| | Size | Rated current $I_n$ | | | | | | |
| | I | Up to 1000 A[2)] | | **3WL9111-0AN15-0AA0** | | 1 | 1 unit | 1CA |
| | | 1250 A to 2000 A | | **3WL9111-0AN16-0AA0** | | 1 | 1 unit | 1CA |
| | II | Up to 2000 A[3)] | | **3WL9111-0AN17-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 2500 A[3)] | | **3WL9111-0AN18-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 3200 A[3)] | | **3WL9111-0AN21-0AA0** | | 1 | 1 unit | 1CA |
| | | 1600 ... 3200 A[4)] | | **3WL9111-0AN38-0AA0** | | 1 | 1 unit | 1CA |
| | III | Up to 5000 A | | **3WL9111-0AN22-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 6300 A, 3 busbar connection pieces for 3-pole circuit breakers | | **3WL9111-0AN23-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 6300 A, at top, 4 busbar connection pieces for 4-pole circuit breakers | | **3WL9111-0AN20-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 6300 A, at bottom, 4 busbar connection pieces for 4-pole circuit breakers | | **3WL9111-0AN10-0AA0** | | 1 | 1 unit | 1CA |
| | **Rear horizontal main connections** | | | | | | | |
| | Size | Rated current $I_n$ | | | | | | |
| | I | Up to 1000 A[2)] | | **3WL9111-0AN32-0AA0** | | 1 | 1 unit | 1CA |
| | | 1250 A to 2000 A | | **3WL9111-0AN33-0AA0** | | 1 | 1 unit | 1CA |
| | II | Up to 2000 A[3)] | | **3WL9111-0AN34-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 2500 A[3)] | | **3WL9111-0AN35-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 3200 A[3)] | | **3WL9111-0AN36-0AA0** | | 1 | 1 unit | 1CA |
| | | 1600 ... 3200 A[4)] | | **3WL9111-0AN47-0AA0** | | 1 | 1 unit | 1CA |
| | III | Up to 5000 A | | **3WL9111-0AN37-0AA0** | | 1 | 1 unit | 1CA |
|  NSE0_01016 3WL9111-0AN24-0AA0 | **Connecting flange** | | | | | | | |
| | Size | Rated current $I_n$ | | | | | | |
| | I | Up to 1000 A[2)] | | **3WL9111-0AN24-0AA0** | | 1 | 1 unit | 1CA |
| | | 1250 A to 2000 A | | **3WL9111-0AN25-0AA0** | | 1 | 1 unit | 1CA |
| | II[3)] | Up to 2000 A | | **3WL9111-0AN26-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 2500 A | | **3WL9111-0AN27-0AA0** | | 1 | 1 unit | 1CA |
| | | Up to 3200 A | | **3WL9111-0AN28-0AA0** | | 1 | 1 unit | 1CA |
| | III | Up to 4000 A | | **3WL9111-0AN31-0AA0** | | 1 | 1 unit | 1CA |

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

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

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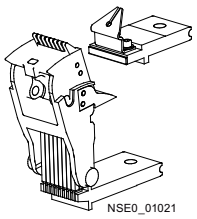
## Accessories and spare parts

### Conversion sets

**Conversion set for converting fixed-mounted circuit breakers into withdrawable circuit breakers**[1]
Guide frames and sliding contact modules must be ordered separately.

| Number of poles | Size | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| 3-pole | I | | **3WL9111-0BC11-0AA0** | | 1 | 1 unit | 1CA |
| | II | | **3WL9111-0BC12-0AA0** | | 1 | 1 unit | 1CA |
| | III | | **3WL9111-0BC13-0AA0** | | 1 | 1 unit | 1CA |
| 4-pole | I | | **3WL9111-0BC14-0AA0** | | 1 | 1 unit | 1CA |
| | II | | **3WL9111-0BC15-0AA0** | | 1 | 1 unit | 1CA |
| | III | | **3WL9111-0BC16-0AA0** | | 1 | 1 unit | 1CA |

### Main contact elements


NSE0_01021

**Main contact elements**[2][4]

| Size | $I_{n\,max}$ | | | | | | |
|---|---|---|---|---|---|---|---|
| I | Up to 1600 A | | **3WL9111-0AM90 L1Y**[3] | | 1 | 1 unit | 1CA |
| II | Up to 2500 A | | **3WL9111-0AM91 L1Y**[3] | | 1 | 1 unit | 1CA |
| II | Up to 4000 A | | **3WL9111-0AM92 L1Y**[3] | | 1 | 1 unit | 1CA |
| III | Up to 6300 A | | **3WL9111-0AM93 L1Y**[3] | | 1 | 1 unit | 1CA |

Notes

- The circuit breaker ID No. must be specified when ordering
- Specified for each connection (depending on the number of poles on the circuit breaker, order 3 or 4 units)
- Article No. is automatically adapted to the circuit breaker ID No.

1) Conversion from fixed-mounted to withdrawable is not possible for 3WL1 circuit breakers with very high breaking capacity C.

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

3) Please specify the circuit breaker ID No. in plain text when ordering.

4) Replacement of the main contact elements for 3WL1 circuit breakers with very high breaking capacity C is only possible at the factory.



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

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## Options

### *Structure of the article number*

**3WL1** 2 2 0 – 4 N G 6 1 – 1 F A 2

| Example | | |
|---|---|---|
| 5th digit: | Size | Size II |
| 6th and 7th digits: | Max. rated circuit breaker current $I_{n\,max}$ | $I_{n\,max}$ = 2000 A |
| 8th digit: | Breaking capacity class | High breaking capacity "H": 100 kA |
| 9th digit: | Electronic Trip Units | ETU76B with graphics display ... |
| 10th digit: | Electronic Trip Unit supplement | ... with ground-fault protection |
| 11th digit: | Number of poles | Three-pole |
| 12th digit: | Installation type | Fixed-mounted, main connections on rear, vertical |
| 13th digit: | Operating mechanisms | Manual operating mechanism with mechanical closing |
| 14th digit: | 1st auxiliary release | Shunt release 50/60 Hz 110 V AC |
| 15th digit: | 2nd auxiliary release | Without 2nd auxiliary release |
| 16th digit: | Auxiliary switches | 2 NO contacts + 2 NC contacts |

An important prerequisite for electronic order processing is that article numbers must be structured according to standardized criteria.

They are used as an unambiguous means of communication for various purposes:

- Offer processing
  Selection and configuration
- Order processing
  Orders
  Order confirmation
  Processing of products for storage
  Order processing in supply locations
  Supply and dispatch
- Reporting and planning
- Service and warranty

The standardized structure ensures that only one article number has to be administered for one device.

This saves time and effort during planning, configuring, ordering and in stock keeping, and consequently above all it saves costs.

The example opposite explains the various positions within an article number.

### *Accessories: With first order (components are already mounted)*

Example

**3WL1** 2 1 6 – 4 F G 6 1 – 1 F A 6 – Z F 0 2

| | |
|---|---|
| **"–Z"** with order code | Communications interface "Standard" + Breaker Status Sensor (BSS) + COM15 communication module for connection to PROFIBUS DP |

Additional accessory components can be ordered ready-mounted.

These supplements are identified by **"–Z"**.

Even with additional components, one article number is sufficient.

### *Accessories: For retrofitting (components for subsequent fitting)*

Example

**3WL9** 1 1 1 – 0 B A 2 1 – 0 A A 0

Interlocking set for mechanical ON/OFF without lock

Additional accessories which are not intended to be ready-mounted in the factory, such as spare parts for storage, can also be ordered separately from the circuit breaker.

Accessories for retrofitting are identified by the article number stem 3WL9.

### *Documentation*

| | | | |
|---|---|---|---|
| **Operating manual**<br>Complete set | German/English<br>French/Italian<br>Spanish/Portuguese | Article No.<br>Article No.<br>Article No. | **3ZX1812-0WL00-0AN4**<br>**3ZX1812-0WL00-0AJ3**<br>**3ZX1812-0WL00-0AL3** |
| **System Manual - 3WL/3VL PROFIBUS communication-capable circuit breakers** | German<br>English | Article No.<br>Article No. | **A5E01051347**<br>**A5E01051353** |
| **System Manual - 3WL/3VL Modbus communication-capable circuit breakers** | German<br>English | Article No.<br>Article No. | **3ZX1012-0WL10-1AB1**<br>**3ZX1012-0WL10-1AC1** |
| **Communication Manual - 3WL air circuit breakers via COM35 - PROFINET IO, Modbus TCP** | German<br>English | Article No.<br>Article No. | **3ZW1012-0VA27-1AB1**<br>**3ZW1012-0VA27-1AC1** |

Free download of documentation from
www.siemens.com/lowvoltage/manuals

## More information

Up-to-date information on the Internet at:
www.siemens.com/sentron

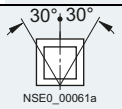
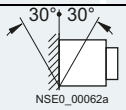
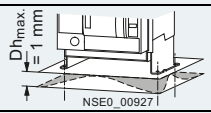
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## General data

### Technical specifications

| Size | | | I | II | | |
|---|---|---|---|---|---|---|
| **Type** | | | **3WL11 20** | **3WL12 10** | **3WL12 20** | **3WL12 40** |
| **Rated current $I_n$** at 40 °C<br>Main conductor | | A | 2000 | ... 1000 | 2000 | 4000 |
| **Rated operational voltage $U_e$**<br>(for 1000 V version, see "-Z" option and order code "A05", page 1/49) | | V DC | 1000 | ... 600/1000 | ... 600/1000 | ... 600/1000 |
| **Rated insulation voltage $U_i$** | | V DC | 1000 | 1000 | 1000 | 1000 |
| **Rated impulse withstand voltage $U_{imp}$** | | | | | | |
| • Main conducting paths | | kV | 12 | 12 | 12 | 12 |
| • Auxiliary circuits | | kV | 4 | 4 | 4 | 4 |
| • Control circuits | | kV | 2.5 | 2.5 | 2.5 | 2.5 |
| **Isolating function acc. to EN 60947-2** | | | Yes | Yes | Yes | Yes |
| **Utilization category** | | | | B | | |
| **Permissible ambient temperature** | | | | | | |
| • Operation | | °C | –40/+70 | –40/+70 | –40/+70 | –40/+70 |
| • Storage | | °C | -40/+80 | -40/+80 | -40/+80 | -40/+80 |
| **Permissible load** | Up to 40 °C | A | 2000 | 1000 | 2000 | 4000 |
| At rear horizontal main circuit | Up to 55 °C | A | 1910 | 1000 | 2000 | 3640 |
| connections | Up to 60 °C | A | 1850 | 1000 | 2000 | 3500 |
| (Cu painted black) | Up to 70 °C | A | 1710 | 1000 | 1950 | 3250 |
| **Power loss at $I_n$** for symmetrical loads<br>Withdrawable circuit breakers | | W | 150 | 280 | 770 | 1640 |
| **Switching times** | | | | | | |
| • Make time | | ms | 35 | 35 | 35 | 35 |
| • Opening time | | ms | 38 | 34 | 34 | 34 |
| • Electrical make time (through activation solenoid)[1] | | ms | 100 | 100 | 100 | 100 |
| • Electrical opening time (through shunt release) | | ms | 73 | 73 | 73 | 73 |
| • Electrical opening time (instantaneous undervoltage release) | | ms | 73 | 73 | 73 | 73 |
| **Service life**[3] | | | | | | |
| • Mechanical (without maintenance) | | Operating cycles | 10000 | 10000 | 10000 | 10000 |
| • Mechanical (with maintenance)[2] | | Operating cycles | 15000 | 17500 | 17500 | 17500 |
| • Electrical (without maintenance) | | Operating cycles | 1000 | 6000 | 6000 | 4000 |
| • 1000 V version | | Operating cycles | 1000 | 1000 | 1000 | 1000 |
| • Electrical (with maintenance)[2] | | Operating cycles | 2000 | 17500 | 17500 | 17500 |
| **Switching frequency** | | | | | | |
| • 600 V version | | 1/h | -- | 60 | 60 | 60 |
| • 1000 V version | | 1/h | 20 | 20 | 20 | 20 |
| **Mounting position** | | | |  NSE0_00061a and/or  NSE0_00062a  NSE0_00927 | | |
| **Degree of protection** | | | | IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover | | |
| **Auxiliary conductors (Cu)** | Standard connection = strain-relief clamp | | | | | |
| Max. number | • Without end sleeve | | | 2 × 0.5 mm² (AWG 20) ... 2 × 1.5 mm² (AWG 16); 1 × 2.5 mm² (AWG 14) | | |
| Auxiliary conductors × | • With end sleeve acc. to DIN 46228 Part 2 | | | 1 × 0.5 mm² (AWG 20) ... 1 × 1.5 mm² (AWG 16) | | |
| cross-section | • With twin end sleeve | | | 2 × 0.5 mm² (AWG 20) ... 2 × 1.5 mm² (AWG 16) | | |
| (solid/stranded) | Optional connection = tension spring | | | | | |
| | • Without end sleeve | | | 2 × 0.5 mm² (AWG 20) ... 2 × 2.5 mm² (AWG 14) | | |
| | • With end sleeve acc. to DIN 46228 Part 2 | | | 2 × 0.5 mm² (AWG 20) ... 2 × 1.5 mm² (AWG 16) | | |
| **Weights** 3-pole | • Fixed-mounted circuit breakers | kg | 43 | 56 | 56 | 64 |
| | • Withdrawable circuit breakers | kg | -- | 60 | 60 | 68 |
| | • Guide frames | kg | -- | 31 | 31 | 45 |
| 4-pole | • Fixed-mounted circuit breakers | kg | 50 | 67 | 67 | 77 |
| | • Withdrawable circuit breakers | kg | -- | 72 | 72 | 82 |
| | • Guide frames | kg | -- | 37 | 37 | 54 |

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

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

[3] Further technical specifications on request.



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

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***Breaking capacity***

| Size | | I (DC) | II (DC) |
|---|---|---|---|
| **Type** | | **3WL11** | **3WL12** |
| **Breaking capacity** | | **DC** | **DC** |
| **Short-circuit breaking capacity** | | | |
| Up to 220 V DC $I_{cc}$ | kA | 20 | 35 |
| Up to 300 V DC $I_{cc}$ | kA | 20 | 30 |
| Up to 600 V DC $I_{cc}$ | kA | 20 | 25 |
| Up to 1000 V DC $I_{cc}$ | kA | 20 | 20 |
| **Rated short-time withstand current $I_{cw}$** | | | |
| 0.5 s | kA | -- | -- |
| 1 s | kA | 20 | 35[1]/30[2]/25[3]/20[4] |
| 2 s | kA | -- | -- |
| 3 s | kA | -- | -- |

(N) Circuit breakers with ECO breaking capacity N

(S) Circuit breakers with standard breaking capacity S

(H) Circuit breakers with high breaking capacity H

(C) Circuit breakers with very high breaking capacity C

(DC) Non-automatic air circuit breakers with DC breaking capacity

These breaking capacities are indicated in the corresponding tables by the symbols shown on orange backgrounds.

Note:

- For further technical specifications, see the Configuration Manual "Air Circuit Breakers" (www.siemens.com/lowvoltage/manuals).

| Abbreviations* (functions) | English long text | Explanation |
|---|---|---|
| L | Long Time Delay | Overload protection |
| S | Short Time Delay | Short-circuit protection (short-time delayed) |
| I | Instantaneous | Short-circuit protection (instantaneous) |
| N | Neutral Protection | Neutral conductor protection |
| G | Ground Fault | Ground-fault protection |

* Designations according to IEC 60947-2, Annex K.

1) At $U_e$ = 220 V DC
2) At $U_e$ = 300 V DC
3) At $U_e$ = 600 V DC
4) At $U_e$ = 1000 V DC

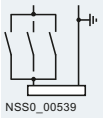
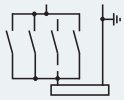
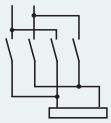
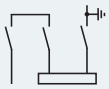
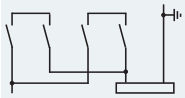
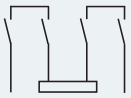
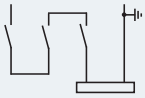
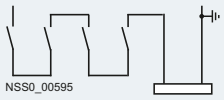
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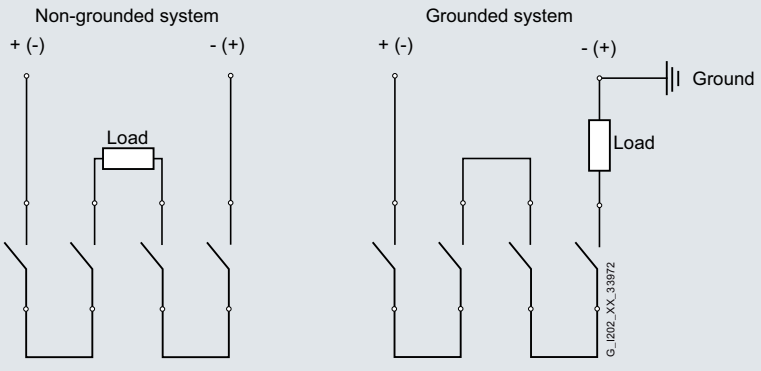
## Application examples size II – non-automatic air circuit breakers for DC

| Rated operational voltage | Required series-connected contact gaps at rated voltage | For 3-pole non-automatic air circuit breakers (operational currents up to 4000 A/ conducting path) | | For 4-pole non-automatic air circuit breakers (operational currents up to 4000 A/conducting path) | |
|---|---|---|---|---|---|
| Up to 300 V + 10 % |  |  NSS0_00539<br>1-pole, 2 parallel conducting paths, only with grounded system |  <br>2-pole |  <br>1-pole, 3 parallel conducting paths, only with grounded system |  <br>2-pole 2 parallel conducting paths |
| Over 300 V + 10 % Up to 600 V + 10 % |  |  <br>2-pole, only with grounded system | |  <br>1-pole, 2 parallel conducting paths, only with grounded system |  <br>2-pole |
| Over 600 V + 10 % Up to 1000 V + 10 % (version for 1000 V required, order with "-Z" and code A05) |  |  <br>1-pole, only with grounded system | |  <br>2-pole, only with grounded system |  NSS0_00595<br>1-pole, only with grounded system |

Connection to the circuit breakers is independent of the direction and polarity; the circuit diagrams can be converted analogously. If the parallel or series connections are established directly to the connecting bars, for thermal reasons the circuit breakers may only be subjected continuously to 80 % of the permissible operational current. If the parallel or series connection is made at a distance of 1 m from the connecting bars, the circuit breaker can be used at full operational current load.
⊣⊪ grounded system
□ load

## Application examples size I – non-automatic air circuit breakers for DC

Permissible interconnections
Circuit diagrams for size I
1000 V DC non-automatic air circuit breakers




## More information

Up-to-date information on the Internet at:

www.siemens.com/sentron

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## Selection and ordering data

For general data, see page 1/8.

| Size | Max. rated circuit breaker current $I_{n\,max}$ | SD | **3-pole non-automatic air circuit breakers** (DC) | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|
| | A | d | Article No.: www.siemens.com/product?Article No. | Price per PU | | |
| **Horizontal main circuit connection** | | | | | | |
| II | 1000 | | **3WL1210-8□□62-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□62-□□□□** | 1 | 1 unit | 1CA |
| | 4000[1] | | **3WL1240-8□□62-□□□□** | 1 | 1 unit | 1CA |
| **Vertical main circuit connection** | | | | | | |
| II | 1000 | | **3WL1210-8□□61-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□61-□□□□** | 1 | 1 unit | 1CA |
| | 4000[1] | | **3WL1240-8□□61-□□□□** | 1 | 1 unit | 1CA |
| **Front main circuit connection, single hole** | | | | | | |
| II | 1000 | | **3WL1210-8□□63-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□63-□□□□** | 1 | 1 unit | 1CA |
| **Front main circuit connection, double hole** | | | | | | |
| II | 1000 | | **3WL1210-8□□64-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□64-□□□□** | 1 | 1 unit | 1CA |

| **Options** | | | | Add. price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers**[2] | Without Electronic Trip Units | **AA** | | **None** |
| **Operating mechanisms** | Manual operating mechanism with mechanical closing | | **1AA2** | **None** |
| | For further Article No. supplements, see page 1/48 | | | |

| Size | Max. rated circuit breaker current $I_{n\,max}$ | SD | **4-pole non-automatic air circuit breakers** (DC) | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|
| | A | d | Article No.: www.siemens.com/product?Article No. | Price per PU | | |
| **Horizontal main circuit connection** | | | | | | |
| I[3] | 2000 | | **3WL1120-8□□72-□□□□** | 1 | 1 unit | 1CA |
| II | 1000 | | **3WL1210-8□□72-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□72-□□□□** | 1 | 1 unit | 1CA |
| | 4000[1] | | **3WL1240-8□□72-□□□□** | 1 | 1 unit | 1CA |
| **Vertical main circuit connection** | | | | | | |
| I[3] | 2000 | | **3WL1120-8□□71-□□□□** | 1 | 1 unit | 1CA |
| II | 1000 | | **3WL1210-8□□71-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□71-□□□□** | 1 | 1 unit | 1CA |
| | 4000[1] | | **3WL1240-8□□71-□□□□** | 1 | 1 unit | 1CA |
| **Front main circuit connection, single hole** | | | | | | |
| II | 1000 | | **3WL1210-8□□73-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□73-□□□□** | 1 | 1 unit | 1CA |
| **Front main circuit connection, double hole** | | | | | | |
| II | 1000 | | **3WL1210-8□□74-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□74-□□□□** | 1 | 1 unit | 1CA |

| **Options** | | | | Add. price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers**[2] | Without Electronic Trip Units | **AA** | | **None** |
| **Operating mechanisms** | Manual operating mechanism with mechanical closing | | **1AA2** | **None** |
| | For further Article No. supplements, see page 1/48 | | | |

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

**3WL12.0-8....-....-Z**
□ □ □

| Condition | Size | Rated current $I_n$ | | | | Additional price 3-pole | Additional price 4-pole |
|---|---|---|---|---|---|---|---|
| Rated voltage 1000 V DC | II | Up to 2000 A | **A** | **0** | **5** | ✓ | ✓ |
| | | Up to 4000 A | **A** | **0** | **5** | ✓ | ✓ |

**Note**

For voltages over 600 V use the version for 1000 V DC rated voltage for size II: Order with "-Z" and order code "A05".
All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see "3WL1 Air Circuit Breakers/ Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", from page 1/49.
An external overload and short-circuit protection device is available from the company "mat" for the 3WL1 non-automatic air circuit breakers. Available only directly from the company "mat" – Maschinen- und Anlagentechnik (for the address, see page 1/85).

1) Provisions to dissipate heat must be made on the line side.
2) For permissible rated short-time current $I_{cw}$ and short-circuit breaking capacity $I_{cc}$ for non-automatic air circuit breakers, see page 1/13.
3) 3WL1120-8 DC non-automatic air circuit breakers are designed for a rated voltage of 1000 V DC.

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

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## Selection and ordering data

| Size | Max. rated circuit breaker current $I_{n\,max}$ | SD | 3-pole non-automatic air circuit breakers (DC) | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|
| | A | d | Article No. www.siemens.com/product?Article No. | Price per PU | | |
| **Without guide frames (for guide frames, see page 1/86)** | | | | | | |
| II | 1000 | | **3WL1210-8□□65-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□65-□□□□** | 1 | 1 unit | 1CA |
| | 4000[1] | | **3WL1240-8□□65-□□□□** | 1 | 1 unit | 1CA |
| **With guide frames, horizontal main circuit connection** | | | | | | |
| II | 1000 | | **3WL1210-8□□66-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□66-□□□□** | 1 | 1 unit | 1CA |
| | 4000[1] | | **3WL1240-8□□66-□□□□** | 1 | 1 unit | 1CA |
| **With guide frames, vertical main circuit connection** | | | | | | |
| II | 1000 | | **3WL1210-8□□67-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□67-□□□□** | 1 | 1 unit | 1CA |
| | 4000[1] | | **3WL1240-8□□67-□□□□** | 1 | 1 unit | 1CA |
| **With guide frames, connecting flanges** | | | | | | |
| II | 1000 | | **3WL1210-8□□68-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□68-□□□□** | 1 | 1 unit | 1CA |
| | 4000[1] | | **3WL1240-8□□68-□□□□** | 1 | 1 unit | 1CA |

| Options | | | Additional price |
|---|---|---|---|
| **Non-automatic air circuit breakers[2]** | Without Electronic Trip Units | **AA** | **None** |
| **Operating mechanisms** | Manual operating mechanism with mechanical closing | **1AA2** | **None** |
| | For further Article No. supplements, see page 1/48 | | |

| Add "**-Z**" to the complete Article No. and indicate the appropriate order code(s). | | | **3WL12.0-8..3.-....-Z** □ □ □ | Additional price 3-pole |
|---|---|---|---|---|
| Condition | Size | Rated current $I_n$ | | |
| Rated voltage 1000 V DC | II[4] | Up to 2000 A | **A 0 5** | ✓ |
| | | Up to 4000 A | **A 0 5** | ✓ |
| Tinned version of the customer's connections on the guide frame[3]. Only for circuit breakers in withdrawable version with horizontal connection or flange connection. The normal delivery time increases to 15 work days. | II | | **A 0 8** | ✓ |

Note

For voltages over 600 V use the version for 1000 V DC rated voltage: Order with "-Z" and order code "A05".

All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see "3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", from page 1/49.

An external overload and short-circuit protection device is available from the company "mat" for the 3WL1 non-automatic air circuit breakers.

Available only directly from the company "mat" – Maschinen- und Anlagentechnik (for the address, see page 1/85).

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

2) For permissible rated short-time current $I_{cw}$ and short-circuit breaking capacity $I_{cc}$ for non-automatic air circuit breakers, see page 1/13.

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

4) When ordering withdrawable circuit breaker and guide frame separately, specify order code "A05" for withdrawable circuit breaker and guide frame.



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

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## Selection and ordering data

| Size | Max. rated circuit breaker current $I_{n\,max}$ | SD | **4-pole non-automatic air circuit breakers** (DC) | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|
| | A | d | Article No. www.siemens.com/product?Article No. | Price per PU | | |
| **Without guide frames (for guide frames, see page 1/86)** | | | | | | |
| II | 1000 | | **3WL1210-8□□75-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□75-□□□□** | 1 | 1 unit | 1CA |
| | 4000 [1] | | **3WL1240-8□□75-□□□□** | 1 | 1 unit | 1CA |
| **With guide frames, horizontal main circuit connection** | | | | | | |
| II | 1000 | | **3WL1210-8□□76-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□76-□□□□** | 1 | 1 unit | 1CA |
| | 4000 [1] | | **3WL1240-8□□76-□□□□** | 1 | 1 unit | 1CA |
| **With guide frames, vertical main circuit connection** | | | | | | |
| II | 1000 | | **3WL1210-8□□77-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□77-□□□□** | 1 | 1 unit | 1CA |
| | 4000 [1] | | **3WL1240-8□□77-□□□□** | 1 | 1 unit | 1CA |
| **With guide frames, connecting flanges** | | | | | | |
| II | 1000 | | **3WL1210-8□□78-□□□□** | 1 | 1 unit | 1CA |
| | 2000 | | **3WL1220-8□□78-□□□□** | 1 | 1 unit | 1CA |
| | 4000 [1] | | **3WL1240-8□□78-□□□□** | 1 | 1 unit | 1CA |

| **Options** | | | | Additional price |
|---|---|---|---|---|
| **Non-automatic air circuit breakers** [2] | Without Electronic Trip Units | **AA** | | **None** |
| **Operating mechanisms** | Manual operating mechanism with mechanical closing | | **1AA2** | **None** |
| | For further Article No. supplements, see page 1/48 | | | |

| Add "**-Z**" to the complete Article No. and indicate the appropriate order code(s). | | | **3WL12.0-8..4.-....-Z** □ □ □ | Additional price 4-pole |
|---|---|---|---|---|
| Condition | Size | Rated current $I_n$ | | |
| Rated voltage 1000 V DC | II [4] | Up to 2000 A | **A 0 5** | ✓ |
| | | Up to 4000 A | **A 0 5** | ✓ |
| Tinned version of the customer's connections on the guide frame [3]. Only for circuit breakers in withdrawable version with horizontal connection or flange connection. The normal delivery time increases to 15 work days. | II | | **A 0 8** | ✓ |

Note

For voltages over 600 V use the version for 1000 V DC rated voltage: Order with "-Z" and order code "A05".

All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see "3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", from page 1/49.

An external overload and short-circuit protection device is available from the company "mat" for the 3WL1 non-automatic air circuit breakers.

Available only directly from the company "mat" – Maschinen- und Anlagentechnik [5].

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

2) For permissible rated short-time current $I_{cw}$ and short-circuit breaking capacity $I_{cc}$ for non-automatic air circuit breakers, see page 1/13.

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

4) When ordering withdrawable circuit breaker and guide frame separately, specify order code "A05" for withdrawable circuit breaker and guide frame.

5) **mat – Maschinen- und Anlagentechnik**
Dr. Becker GmbH
Rudolf-Diesel-Strasse 22
22941 Bargteheide, Germany
Tel.: +49 (45 32) 20-2101
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## Selection and ordering data

### *Guide frames for DC non-automatic air circuit breakers*

| Size | Max. rated circuit breaker current $I_{n\,max}$ | SD | **Guide frames for 3-pole non-automatic air circuit breakers** Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| | A | d | | | | | |
| **Front main circuit connection, single hole** | | | | | | | |
| II | 2000 | | **3WL9212-3HA□□-□□D1** | | 1 | 1 unit | 1CA |
| **Front main circuit connection, double hole** | | | | | | | |
| II | 2000 | | **3WL9212-3HB□□-□□D1** | | 1 | 1 unit | 1CA |
| **Horizontal main circuit connection** | | | | | | | |
| II | 2000 | | **3WL9212-3HC□□-□□D1** | | 1 | 1 unit | 1CA |
| | 4000 | | **3WL9212-6HC□□-□□D1** | | 1 | 1 unit | 1CA |
| **Vertical main circuit connection** | | | | | | | |
| II | 2000 | | **3WL9212-3HD□□-□□D1** | | 1 | 1 unit | 1CA |
| | 4000 | | **3WL9212-6HD□□-□□D1** | | 1 | 1 unit | 1CA |
| **Main circuit connection connecting flanges** | | | | | | | |
| II | 2000 | | **3WL9212-3HE□□-□□D1** | | 1 | 1 unit | 1CA |
| | 4000 | | **3WL9212-6HE□□-□□D1** | | 1 | 1 unit | 1CA |

| **Options** | | | | | | Additional price 3-pole |
|---|---|---|---|---|---|---|
| **Number of auxiliary supply connectors** | None | **0** | | | | **None** |
| | 1 connector | **1** | | | | ✓ |
| | 2 connectors | **2** | | | | ✓ |
| | 3 connectors | **3** | | | | ✓ |
| | 4 connectors | **4** | | | | ✓ |
| Note | | | | | | |
| For table for required number of auxiliary supply connectors, see page 1/56. | | | | | | |
| **Type of auxiliary circuit connections** | None[2] | | **0** | | | **None** |
| | With screw connection (SIGUT, standard) | | **1** | | | ✓ |
| | With screwless connection method (tension spring) | | **2** | | | ✓ |
| **Position signaling switches** | None | | | **0** | | **None** |
| | Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO | | | **1** | | ✓ |
| | Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO | | | **2** | | ✓ |
| **Shutters** | None | | | | **A** | **None** |
| | With shutter, 2-part, lockable | | | | **B** | |

| | Add "**-Z**" to the complete Article No. and indicate the appropriate order code(s). | **3WL9212-.....-..A1-Z** □ □ □ | Additional price |
|---|---|---|---|
| **Rated voltage 1000 V DC** | | | |
| Size II | | **A 0 5** | ✓ |
| **Tinned version of the customer's connections on the guide frame[1]. Only for guide frames with horizontal connection or flange connection** | | | |
| Size II | | **A 0 8** | ✓ |
| Notes | | | |
| • For guide frames for 4-pole DC non-automatic air circuit breakers, see the following page.<br>• All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see "3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", from page 1/49. | | | |

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

[2] Can only be selected if the number of auxiliary supply connectors = 0.



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

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| Size | Max. rated circuit breaker current $I_{n\,max}$ | SD | **Guide frames for 4-pole non-automatic air circuit breakers** Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| | A | d | | | | | |
| **Front main circuit connection, single hole** | | | | | | | |
| II | 2000 | | **3WL9212-3JA□□-□□D1** | | 1 | 1 unit | 1CA |
| **Front main circuit connection, double hole** | | | | | | | |
| II | 2000 | | **3WL9212-3JB□□-□□D1** | | 1 | 1 unit | 1CA |
| **Horizontal main circuit connection** | | | | | | | |
| II | 2000 | | **3WL9212-3JC□□-□□D1** | | 1 | 1 unit | 1CA |
| II | 4000 | | **3WL9212-6JC□□-□□D1** | | 1 | 1 unit | 1CA |
| **Vertical main circuit connection** | | | | | | | |
| II | 2000 | | **3WL9212-3JD□□-□□D1** | | 1 | 1 unit | 1CA |
| II | 4000 | | **3WL9212-6JD□□-□□D1** | | 1 | 1 unit | 1CA |
| **Main circuit connection connecting flanges** | | | | | | | |
| II | 2000 | | **3WL9212-3JE□□-□□D1** | | 1 | 1 unit | 1CA |
| II | 4000 | | **3WL9212-6JE□□-□□D1** | | 1 | 1 unit | 1CA |

| **Options** | | | | | | | Additional price 4-pole |
|---|---|---|---|---|---|---|---|
| **Number of auxiliary supply connectors** | None | **0** | | | | | **None** |
| | 1 connector | **1** | | | | | ✓ |
| | 2 connectors | **2** | | | | | ✓ |
| | 3 connectors | **3** | | | | | ✓ |
| | 4 connectors | **4** | | | | | ✓ |
| Note | | | | | | | |
| For required number of auxiliary supply connectors, see table see page 1/56. | | | | | | | |
| **Type of auxiliary circuit connections** | None[2] | | **0** | | | | **None** |
| | With screw connection (SIGUT, standard) | | **1** | | | | ✓ |
| | With screwless connection method (tension spring) | | **2** | | | | ✓ |
| **Position signaling switches** | None | | | **0** | | | **None** |
| | Option 1: Connected position 1 CO, test position 1 CO, disconnected position 1 CO | | | **1** | | | ✓ |
| | Option 2: Connected position 3 CO, test position 2 CO, disconnected position 1 CO | | | **2** | | | ✓ |
| **Shutters** | None | | | | **A** | | **None** |
| | With shutter, 2-part, lockable | | | | **B** | | |

| | Add "**-Z**" to the complete Article No. and indicate the appropriate order code(s). | **3WL9212-.....-..A1-Z** □ □ □ | Additional price |
|---|---|---|---|
| **Rated voltage 1000 V DC** | | | |
| Size II | **A 0 5** | | ✓ |
| **Tinned version of the customer's connections on the guide frame[1]. Only for guide frames with horizontal connection or flange connection** | | | |
| Size II | **A 0 8** | | ✓ |
| Notes | | | |
| • For guide frames for 3-pole DC non-automatic air circuit breakers, see previous page.<br>• All other accessory parts must be ordered by specifying "-Z" and the appropriate order code, see "3WL1 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Options", from page 1/49. | | | |

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

2) Can only be selected if the number of auxiliary supply connectors = 0.

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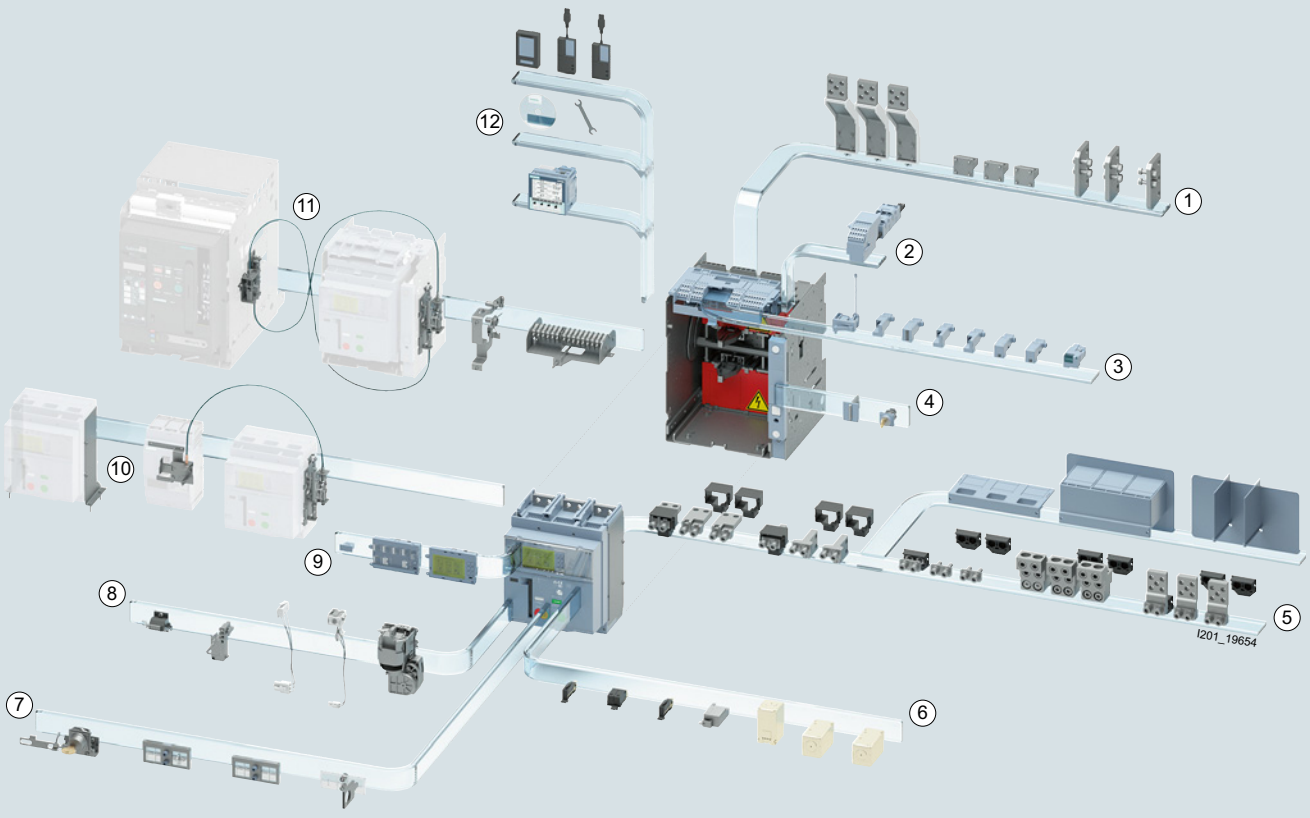


## Introduction

### Overview



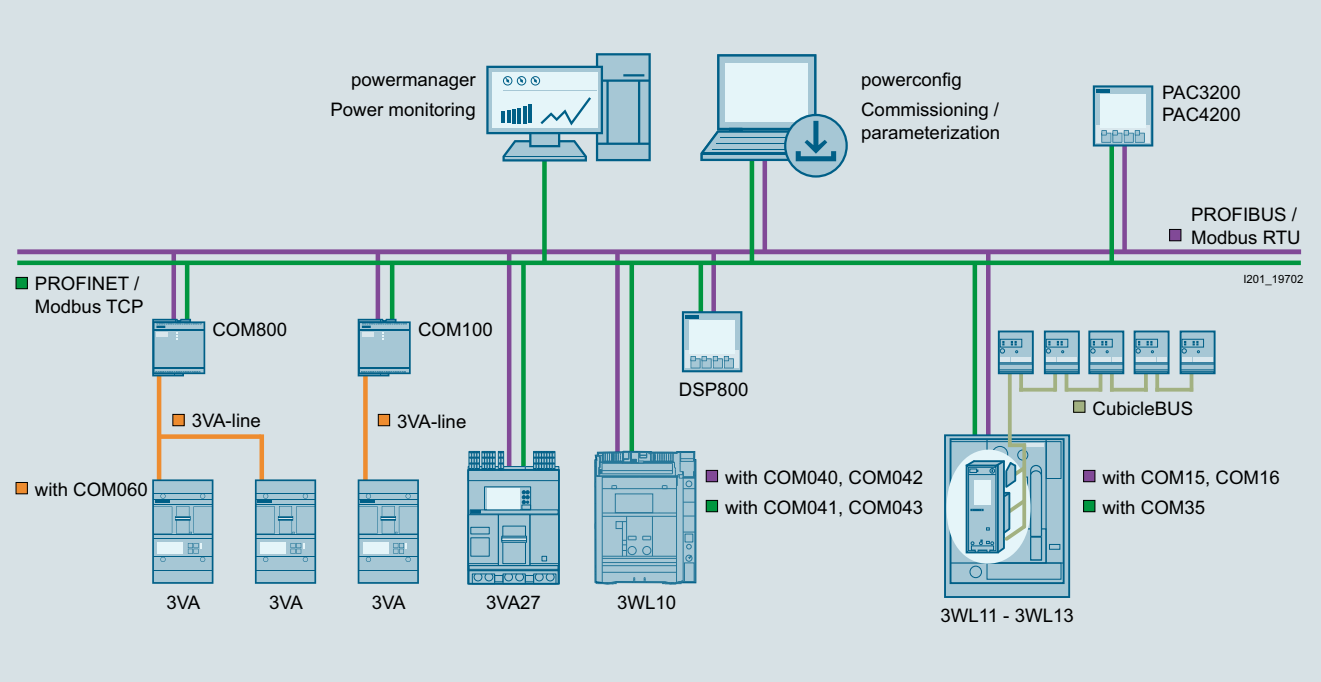
The 3WL10 air circuit breakers are an addition to the existing 3WL1 IEC portfolio with the very compact size 0 up to 1250 A. Like the larger sizes 1 - 3, the 3WL10 breakers are modular in design allowing most accessory components to be retrofitted or replaced easily by the end user.




1 Connection technology, guide frames
2 Position signaling switches for guide frames
3 Communication modules
4 Locks, guide frames
5 Connection technology, fixed mounting
6 Internal accessories
7 Locks, fixed mounting
8 Spring charging motor
9 Electronic Trip Units
10 Interlocking technology, fixed mounting
11 Interlocking technology, guide frames
12 External accessories

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***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 different 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 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.

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## 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.

***Reduced complexity***

A revised system for article numbers makes it easier to find a customized solution without creating unintentional extra work when individual components need to be reordered. Auxiliary and signaling switches are automatically assigned to the device functions without an additional charge. A new product configurator guides the user through the selection process step by step.

***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 when the MF Advanced metering function is used.

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 commissioning, 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.

Integrated energy management combined with a direct Ethernet communications interface makes it possible to standardize the protection and measurement architecture of a switchboard in the compact 3WL10 air circuit breaker. This offers benefits with respect to space-saving and low-effort design, as well as with respect to the configuration of power distribution in industry and infrastructure.

***New standards in CAx and engineering support***

The new online tools and CAx interfaces in the product configurator offer comprehensive support with the configuration and integration of the device in the application. This variety of detailed CAx data is unique on the air circuit breaker market and lays the foundation for the "digital twin".

***Extended protection functions of the Electronic Trip Unit***

Extended and directed protection functions support a variety of applications. They provide answers to the challenges of distributed power supply systems in the context of the energy turnaround. The 3WL10 provides customized solutions in the form of tie breakers for UPS systems or in the network system, which requires direction-dependent protection settings and a selective response.

## 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 and IEC 60947-2 Annex L (CBI-Y).

***Standards***

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

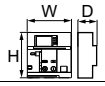
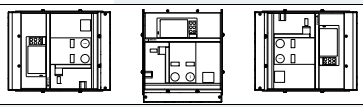
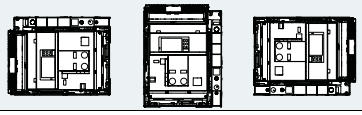
- IEC 60947-2 for circuit breakers
- IEC 60947-3 for non-automatic air circuit breakers
- IEC 60947-3 and IEC 60947-2 Annex L (CBI-Y) for non-automatic circuit breakers
- IEC 60947-2 Annex F/CISPR 11/22 Class B
- Climate-proof according to IEC 60068-2-30.


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

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## Technical specifications

| Breaking 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 500 | 690 | 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 |
| **IT network capability according to ICE60947-2 Appendix H up to and including max. rated operational voltage** | | | V | 500 | 690 | 690 |
| **Rated conditional short-circuit current of the non-automatic air circuit breakers** | $I_{cc}$ | | kA | -- | 42 | 50 |
| **Dimensions (3-pole)** | H | Fixed / Withdrawable | mm | 268* / 363.5 | | |
|  | D | Fixed / Withdrawable | mm | 183 / 271 | | |
| | W | Fixed / Withdrawable | mm | 214 / 278 | | |
| **Dimensions (4-pole)** | H | Fixed / Withdrawable | mm | 268* / 363.5 | | |
| | D | Fixed / Withdrawable | mm | 183 / 271 | | |
| * Dimension without auxiliary conductor terminals or COM modules; otherwise H = 291 mm | W | Fixed / Withdrawable | mm | 284 / 348 | | |
| **Weight (with ETU and current sensor, 3-pole)** | | Fixed / Withdrawable | kg | 14 / 38 | | |
| **Weight (with ETU and current sensor, 4-pole)** | | Fixed / Withdrawable | kg | 16 / 43 | | |
| **Minimum connection cross-sections, bare copper bars**<br>• Recommended for optimized temperature derating<br>• Fixed-mounted and withdrawable versions<br>• Refer to the Equipment Manual for maximum possible connection cross-sections | | | | | Horizontal or front connection | Vertical connection |
| | $I_u$ | 630 | mm | 2 x 40 x 5 | Yes | Yes |
| | $I_u$ | 800 | mm | 2 x 50 x 5 | Yes | Yes |
| | $I_u$ | 1000 | mm | 2 x 50 x 10 | Yes | -- |
| | | | | 2 x 50 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 | Oper. cycles | 20000 | | |
| | | Electrical ≤ 440 V AC | Oper. cycles | 8000 | | |
| | | Electrical ≤ 690 V AC | Oper. 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 | | |

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

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## 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 | ✓ | ✓ |
| | 30 V | ✓ | ✓ |
| | 48 V | ✓ | ✓ |
| | 60 V | ✓ | ✓ |
| | 110 ... 120 V | ✓ | ✓ |
| | 220 ... 240 V | ✓ | ✓ |
| | 240 ... 250 V | ✓ | ✓ |
| **Operating limits** | | ST: 70 ... 110 % $U_n$<br>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 | ✓ | ✓ |
| | 30 V | ✓ | ✓ |
| | 48 V | ✓ | ✓ |
| | 60 V | ✓ | ✓ |
| | 110 ... 127 V | ✓ | ✓ |
| | 220 ... 250 V | ✓ | ✓ |
| **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 | ✓ | ✓ |
| | 30 V | ✓ | ✓ |
| | 48 V | ✓ | ✓ |
| | 60 V | ✓ | ✓ |
| | 110 ... 120 V | ✓ | ✓ |
| | 220 ... 240 V | ✓ | ✓ |
| | 240 ... 250 V | ✓ | ✓ |
| | 380 ... 400 V | ✓ | ✓ |
| | 415 ... 440 V | ✓ | ✓ |
| **Operating limits** | | ST: 70 ... 110 % $U_n$<br>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 | ✓ | ✓ |
| | 110 V | ✓ | ✓ |
| | 250 V | ✓ | ✓ |
| **Operating limits** | | 90 ... 110 % $U_n$ | |

If the remote reset (RR) magnet is DC-operated, the activation time must be kept below a pulse length of 50 ms. The RR cannot be activated permanently.



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

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### *Spring charging motor (MO)*

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

#### Technical specifications

| | | AC | DC |
|---|---|---|---|
| **Power supply ($U_n$)** | 24 V | ✓ | ✓ |
| | 30 V | ✓ | ✓ |
| | 48 V | ✓ | ✓ |
| | 60 V | ✓ | ✓ |
| | 100 ... 130 V | ✓ | ✓ |
| | 220 ... 250 V | ✓ | ✓ |
| **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 (inrush time until start of charging)** | | 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 with electronics capability. The signaling contact can only be operated in conjunction with the spring charging motor and is always included with this.

#### 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 | -- | 0.1 A |
| | | 125 V | 0.3 A at 0 ms | -- |
| | | 250 V | 0.15 A at 0 ms | -- |
| | AC | 250 V | 5 A at p.f. 1 | -- |
| | | | 5 A at p.f. 0.7 | -- |
| | | | 5 A at p.f. 0.3 | -- |
| | | 400 V | 3 A at p.f. 1 | -- |
| | | | 2 A at p.f. 0.7 | -- |
| | | | 1 A at p.f. 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 changeover contacts are available for displaying each position. The PSS contacts are always included in the guide frame.

#### Technical specifications

| | |
|---|---|
| **Configuration** | Position auxiliary contacts - PSS 6 auxiliary contacts |
| **Standard contact** | ✓ |
| **Contact for digital signal** | ✓ |

| | | | 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 | -- | 0.1 A |
| | | 125 V | 0.3 A at 0 ms | -- |
| | | 250 V | 0.15 A at 0 ms | -- |
| | AC | 250 V | 5 A at p.f. 1 | -- |
| | | | 5 A at p.f. 0.7 | -- |
| | | | 5 A at p.f. 0.3 | -- |
| | | 400 V | 3 A at p.f. 1 | -- |
| | | | 2 A at p.f. 0.7 | -- |
| | | | 1 A at p.f. 0.3 | -- |

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## 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 standard version of this changeover contact is included in the scope of supply of all circuit breakers and non-automatic circuit breakers.

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 | -- | 0.1 A |
| | | 250 V | 0.5 A at 0 ms | -- |
| | | | 0.2 A at 10 ms | -- |
| | AC | 250 V | 3 A at p.f. 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 and non-automatic 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<br>4 auxiliary contacts | AUX 15 CO<br>15 additional external auxiliary contacts |
|---|---|---|
| **Standard contact** | ✓ | ✓ |
| **Contact for digital signal** | ✓ | ✓ |
| **Mixed** | ✓ | -- |

| | | | 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 | -- | 0.1 A |
| | | 125 V | 0.3 A at 10 ms | -- |
| | | 250 V | 0.15 A at 10 ms | -- |
| | AC | 250 V | 5 A at p.f. 1 | -- |
| | | | 5 A at p.f. 0.7 | -- |
| | | | 5 A at p.f. 0.3 | -- |
| | | 400 V | 3 A at p.f. 1 | -- |
| | | | 2 A at p.f. 0.7 | -- |
| | | | 1 A at p.f. 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 | -- | 0.1 A |
| | | 250 V | 0.5 A at 0 ms | -- |
| | | | 0.2 A at 10 ms | -- |
| | AC | 250 V | 3 A at p.f. 0.7 | -- |

### *Breaker Connect module, external power supply*

Via the Breaker Connect module, the Electronic Trip Units and accessory modules (communications and digital I/O module IOM040) on the terminal strip 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 terminal strip 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

The 24 V version of the Breaker Connect module is automatically configured in the breaker if the device is selected with a 6-series ETU and a communications interface. It is possible to change to the 240 V version by means of a Z option.



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

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***Actuator module (COM ACT)***

The actuator module (COM ACT) is a communications interface 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 parallel to access via the auxiliary conductor terminal system.

The module is automatically configured in the breaker if the device is selected with a 6-series ETU and a communications interface.

***Position signaling switch communication (COM PSS)***

The position signaling switch COM PSS provides the signal via the communications interface 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, see page 1/131), 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)

The COM PSS is automatically configured in the breaker frame if a withdrawable version of the device is selected with a 6-series ETU and a communications interface.

***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, see page 1/131), 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 communications interface.

The COM RTC is automatically configured in the breaker if the device is selected with a 6-series ETU and a communications interface.

***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-series and 6-series. This does not necessarily require a Breaker Connect module, but still offers the option of connection.

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| Protection functions | | ETU320 LI | ETU350 LSI | ETU360 LSIG | ETU650 LSI | ETU660 LSIG |
|---|---|---|---|---|---|---|
| LT | **LT: Overload protection $I_r$**<br>Protection function can be enabled/disabled | ✓<br>-- | ✓<br>-- | ✓<br>-- | ✓<br>✓ L=OFF rating plug | ✓<br>✓ L=OFF rating plug |
| | Setting range of operating value $I_r = I_n \times$ ... | 0.4; 0.5: 0.6; 0.7; 0.75; 0.8; 0.85; 0.9; 0.95; 1; default 0.4 | 0.4; 0.5: 0.6; 0.7; 0.75; 0.8; 0.85; 0.9; 0.95; 1; default 0.4 | 0.4; 0.5: 0.6; 0.7; 0.75; 0.8; 0.85; 0.9; 0.95; 1; default 0.4 | 0.4 - 1; default 1 (in steps of 0.001) | 0.4 - 1; default 1 (in steps of 0.001) |
| | Setting range of delay time $t_r$ at $I^2t$ (reference point 6 x $I_n$) | 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<br>$t_{trip} = \frac{t_r \times b}{\left(\frac{I_{load}}{I_r}\right)^{\alpha} - 1}$ | -- | -- | -- | $I^4t$: α=4, b=1296 standard inverse SI: α=0.02, b=0.0364 very inverse VI: α=1, b=5 extremely inverse EI: α=2, b=35.2 Default $I^2t$ | $I^4t$: α=4, b=1296 standard inverse SI: α=0.02, b=0.0364 very inverse VI: α=1, b=5 extremely inverse EI: α=2, b=35.2 Default $I^2t$ |
| | Setting range of delay time $t_r$ for characteristic IEC 60255-151 (reference point 6 x $I_n$) | -- | -- | -- | 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 % x $I_r$; default 90 %; (in steps of 1 %) | 50 % - 100 % x $I_r$; default 90 %; (in steps of 1 %) | 50 % - 100 % x $I_r$; default 90 %; (in steps of 1 %) | 50 % - 100 % x $I_r$; default 90 %; (in steps of 1 %) | 50 % - 100 % x $I_r$; default 90 %; (in steps of 1 %) |
| ST | **ST: Short-time delayed short-circuit protection $I_{sd}$**<br>Protection function can be enabled/disabled | --<br>-- | ✓<br>✓ | ✓<br>✓ | ✓<br>✓ | ✓<br>✓ |
| | Characteristic | -- | $I^2t$ / $t$=const. | $I^2t$ / $t$=const. | $I^2t$ / $t$=const. | $I^2t$ / $t$=const. |
| | Switchable short-time delayed short-circuit protection ($I^2t$-dependent function to fixed delay) | -- | ✓ | ✓ | ✓ | ✓ |
| | Setting range of operating value $I_{sd} = I_n \times$ ... | -- | 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 ($I^2t$-dependent function) | -- | ✓ | ✓ | ✓ | ✓ |
| | Setting range of 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 of delay time $t_{sd}$ at $I^2t$ (reference point 10 x $I_n$) | -- | 0.1; 0.2; 0.3; 0.4; 0.5; ($I^2t$ dependent); default 0.1 | 0.1; 0.2; 0.3; 0.4; 0.5; ($I^2t$ dependent); default 0.1 | 0.05 - 0.5 s ($I^2t$ dependent) (in steps of 0.01) | 0.05 - 0.5 s ($I^2t$ dependent) (in steps of 0.01) |
| | Tripping can be disabled | -- | -- | -- | ✓ | ✓ |
| | Switchover to alternative operating values possible with short-time-delayed short-circuit current during the switch-on phase (inrush adaptation) for tripping characteristic $t = k$ (fixed) | -- | -- | -- | ✓ 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 $I_{sd} = I_n$ x ... 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 | **INST: Instantaneous short-circuit protection $I_i$**<br>Protection function can be enabled/disabled | ✓<br>✓ | ✓<br>✓ | ✓<br>✓ | ✓<br>✓ | ✓<br>✓ |
| | Setting range $I_i = I_n \times$ ... | 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 alternative 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 $I_i = I_n$ x ... 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 $I_N = I_n$ x ... | 50 %; 100 %; 200 %; default 50 % | 50 %; 100 %; 200 %; default 50 % | 50 %; 100 %; 200 %; default 50 % | 50 %; 100 %; 150 %; 200 % | 50 %; 100 %; 150 %; 200 % |



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

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| Protection functions | | ETU320 LI | ETU350 LSI | ETU360 LSIG | ETU650 LSI | ETU660 LSIG |
|---|---|---|---|---|---|---|
| G | **GF: Ground-fault protection $I_g$** | -- | -- | ✓ | -- | ✓ |
| | Protection function can be enabled/disabled | -- | -- | ✓ | -- | ✓ |
| | Ground-fault protection characteristic | -- | -- | $t$ = const. / $I^2t$; default $I^2t$ | -- | $t$ = const. / $I^2t$; default const. |
| | Setting range of operating value $I_g = I_n$ x … | -- | -- | 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 of 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 of delay time $t_g$ at $I^2t$ (reference point 2 x $I_n$) | -- | -- | 0.1; 0.2; 0.4; 0.6; 0.8 s ($I^2t$-dependent); Default 0.1 ($I^2t$) | -- | 0.1 s - 1 s; (in steps of 0.05 s) |
| | Ground-fault protection pre-alarm | -- | -- | -- | -- | 50 % - 90 % x $I_r$; default 90 %; (in steps of 1 %) |
| | Tripping can be disabled | -- | -- | -- | -- | ✓ |
| | Switchover to the alternative of the external, directly measured ground-fault protection | -- | -- | -- | -- | ✓ Default OFF |
| | 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) |
| | 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) - $t_g$ instantaneous possible |
| | ZSI G function test | -- | -- | -- | -- | -- |

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## Function overview of the electronic trip system

| 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<br>$R_c$ - Residual current protection (with summation current transformer)<br>$G_{ret}$ - Ground-fault return (transformer in star point) | -- | -- | -- | -- | Ground fault return transformer or RC transformer required. |
| | **$R_c$ - 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 of 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 of ground-fault return operating value $I_{g_ret}$ = $I_{CT_rating}$ x … | -- | -- | -- | -- | 0.1 - 1 x $I_{CT_rating}$; default 0.1; (in steps of 0.001) |
| | Setting range of delay time $t_{g_ret}$ (fixed)<br>$t = k$ | -- | -- | -- | -- | 0.1 s - 1 s; default 0.1 s; (in steps of 0.05 s) |
| | Setting range of delay time $t_{g_ret}$ at $I^2t$ (reference point 4 x $I_n$) | -- | -- | -- | -- | 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 $I_g$ = $I_n$ x … 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 of operating value $I_{i_arc}$= $I_n$ x … | -- | -- | -- | 1.5 - 15; default 1.5; (in steps of 0.1) | 1.5 - 15; default 1.5; (in steps of 0.1) |
| $I_{nba}$ | **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 for 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 | -- | -- | -- | ✓ | ✓ |



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

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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 $I_{dsd} = I_n$ x … 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 $I_{dsd} = v_n$ x … 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 ($I^2t$ 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 possible with directed short-circuit current during the switch-on phase (inrush adaptation) for tripping characteristic $t = k$ (fixed) | -- | -- | -- | ✓ | ✓ |
| | 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 $I_{dsd} = I_n$ x … 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 $I_{dsd} = I_n$ x … 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: 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 $U_u = U_n$ x ... | -- | -- | -- | 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 s) | 0.05 - 120 s; default 10; (in steps of 0.01 s) |
| | Enabling/disabling of tripping on undervoltage protection | -- | -- | -- | ✓ | ✓ |
| $U_o$ | **Overvoltage protection $U_o$** | -- | -- | -- | ✓ | ✓ |
| | Protection function can be enabled/disabled | -- | -- | -- | ✓ | ✓ |
| | Setting range of overvoltage protection $U_o = U_n$ x ... | -- | -- | -- | 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 $f_u = f_n$ x … | -- | -- | -- | 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 $f_o = f_n$ x … | -- | -- | -- | 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<br>LI | ETU350<br>LSI | ETU360<br>LSIG | ETU650<br>LSI | ETU660<br>LSIG |
|---|---|---|---|---|---|---|
| RP | **Reverse power protection: Reverse Power RP** | -- | -- | -- | ✓ | ✓ |
| | Protection function can be enabled/disabled | -- | -- | -- | ✓ | ✓ |
| | Setting range for reverse power $P_{rp} = S_n$ x … | -- | -- | -- | -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: | |
| | 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 of PAL response threshold overload current $I_{r\ pal(1)} = I_r$ x … | -- | -- | -- | 50 %, 100 %; default 50 %; (in steps of 1 %) | 50 %, 100 %; default 50 %; (in steps of 1 %) |
| | Setting range of PAL response threshold overload current $I_{r\ pal(2)} = I_r$ x … | -- | -- | -- | 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 of PAL response threshold overload current $I_{n\ pal(1)} = I_n$ x … | -- | -- | -- | 0.1 - 10; default 3; (in steps of 0.01) | 0.1 - 10; default 3; (in steps of 0.01) |
| | Setting range of PAL response threshold overload current $I_{n\ pal(2)} = I_n$ x … | | | | 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: bottom -> top; | default: bottom -> top |
| | Crossing the response threshold rated current $I_{n\ pal(2)}$ Direction: from bottom, or from top | -- | -- | -- | default: bottom -> top | default: bottom -> top |
| | **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 | 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 |
| | **Nominal voltage adaptation** | | | | | |
| | Nominal voltage | -- | -- | -- | 100 VAC - 690 V AC; default 400 V AC | 100 VAC - 690 V AC; default 400 V AC |



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

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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 solenoid 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 | -- | -- | -- | ✓ | ✓ |

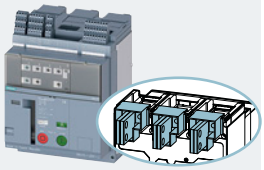
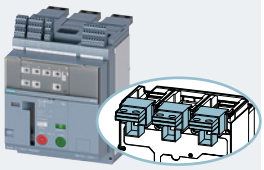
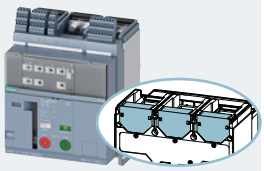
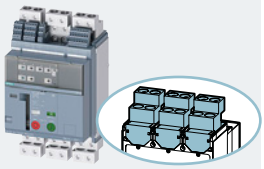
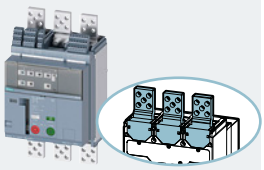
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## 3-pole, fixed-mounted versions

### 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) | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|
| | | | Article No. www.siemens.com/product?Article No. / Basic price per PU | | | |
| | A | d | | | | |
| **Rear vertical connection** | | | | | | |
|  | 630 | | **3WL1006-1□□01-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-1□□01-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-1□□01-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-1□□01-□□□□** | 1 | 1 unit | 1CA |
| **Rear horizontal connection** | | | | | | |
|  | 630 | | **3WL1006-1□□02-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-1□□02-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-1□□02-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-1□□02-□□□□** | 1 | 1 unit | 1CA |
| **Front terminal for main circuit connection** | | | | | | |
|  | 630 | | **3WL1006-1□□03-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-1□□03-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-1□□03-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-1□□03-□□□□** | 1 | 1 unit | 1CA |
| **Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection** | | | | | | |
|  | 630 | | **3WL1006-1□□04-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-1□□04-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-1□□04-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-1□□04-□□□□** | 1 | 1 unit | 1CA |
| **Front connection bars, extended** | | | | | | |
|  | 630 | | **3WL1006-1□□05-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-1□□05-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-1□□05-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-1□□05-□□□□** | 1 | 1 unit | 1CA |

| Versions including S24, RTC and AUX 4 CO signaling and auxiliary switches | | | | | Additional price |
|---|---|---|---|---|---|
| **ETU 3-series – Communications interface and metering function not possible** | | | | | |
| **with ETU320 (LI)** | | **A** | **B** | | ✓ |
| **with ETU350 (LSI)** | | **A** | **C** | | ✓ |
| **with ETU360 (LSIG)** | | **A** | **D** | | ✓ |
| **ETU 6-series – Expandable with communications interface[1] and metering function** | | | | | |
| **with ETU650 (LSI)** | | | **E** | | ✓ |
| **with ETU660 (LSIG)** | | | **F** | | ✓ |
| | With display, without communications interface, without metering function | **A** | | | ✓ |
| | 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** | | | ✓ |

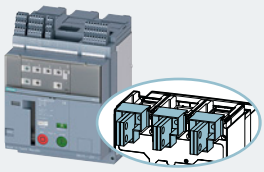
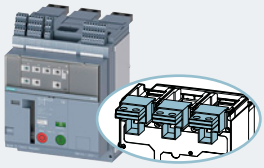
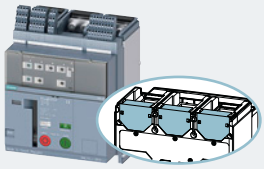
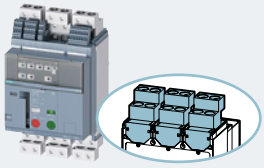
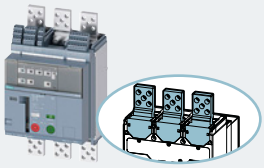
[1] Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT



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

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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 |
|---|---|---|---|---|---|---|
| | | | Article No. www.siemens.com/product?Article No. / Basic price per PU | | | |
| | A | d | | | | |
| **Rear vertical connection** | | | | | | |
|  | 630 | | **3WL1006-2□□01-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2□□01-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2□□01-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2□□01-□□□□** | 1 | 1 unit | 1CA |
| **Rear horizontal connection** | | | | | | |
|  | 630 | | **3WL1006-2□□02-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2□□02-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2□□02-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2□□02-□□□□** | 1 | 1 unit | 1CA |
| **Front terminal for main circuit connection** | | | | | | |
|  | 630 | | **3WL1006-2□□03-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2□□03-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2□□03-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2□□03-□□□□** | 1 | 1 unit | 1CA |
| **Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection** | | | | | | |
|  | 630 | | **3WL1006-2□□04-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2□□04-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2□□04-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2□□04-□□□□** | 1 | 1 unit | 1CA |
| **Front connection bars, extended** | | | | | | |
|  | 630 | | **3WL1006-2□□05-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2□□05-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2□□05-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2□□05-□□□□** | 1 | 1 unit | 1CA |

| Versions including S24, RTC and AUX 4 CO signaling and auxiliary switches | | | | | Additional price |
|---|---|---|---|---|---|
| **ETU 3-series – Communications interface and metering function not possible** | | | | | |
| **with ETU320 (LI)** | | **A** | **B** | | ✓ |
| **with ETU350 (LSI)** | | **A** | **C** | | ✓ |
| **with ETU360 (LSIG)** | | **A** | **D** | | ✓ |
| **ETU 6-series – Expandable with communications interface[1] and metering function** | | | | | |
| **with ETU650 (LSI)** | | | **E** | | ✓ |
| **with ETU660 (LSIG)** | | | **F** | | ✓ |
| | With display, without communications interface, without metering function | **A** | | | ✓ |
| | 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** | | | ✓ |

[1] Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT

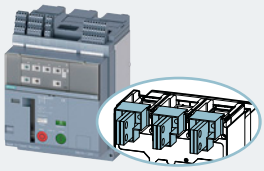
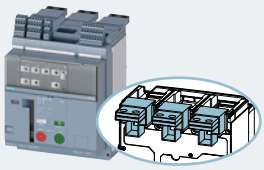
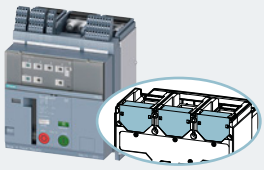
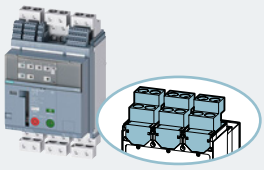
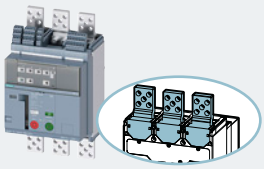
**Minimum order quantity (PS) or a multiple thereof can be ordered.**

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## 3-pole, fixed-mounted 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 |
|---|---|---|---|---|---|---|
| | | | Article No. www.siemens.com/product?Article No. — Basic price per PU | | | |
| | A | d | | | | |
| **Rear vertical connection** | | | | | | |
|  | 630 | | **3WL1006-3□□01-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3□□01-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3□□01-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3□□01-□□□□** | 1 | 1 unit | 1CA |
| **Rear horizontal connection** | | | | | | |
|  | 630 | | **3WL1006-3□□02-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3□□02-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3□□02-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3□□02-□□□□** | 1 | 1 unit | 1CA |
| **Front terminal for main circuit connection** | | | | | | |
|  | 630 | | **3WL1006-3□□03-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3□□03-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3□□03-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3□□03-□□□□** | 1 | 1 unit | 1CA |
| **Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection** | | | | | | |
|  | 630 | | **3WL1006-3□□04-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3□□04-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3□□04-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3□□04-□□□□** | 1 | 1 unit | 1CA |
| **Front connection bars, extended** | | | | | | |
|  | 630 | | **3WL1006-3□□05-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3□□05-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3□□05-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3□□05-□□□□** | 1 | 1 unit | 1CA |

| Versions including S24, RTC and AUX 4 CO signaling and auxiliary switches | | | | | Additional price |
|---|---|---|---|---|---|
| **ETU 3-series – Communications interface and metering function not possible** | | | | | |
| **with ETU320 (LI)** | | **A** | **B** | | ✓ |
| **with ETU350 (LSI)** | | **A** | **C** | | ✓ |
| **with ETU360 (LSIG)** | | **A** | **D** | | ✓ |
| **ETU 6-series – Expandable with communications interface[1] and metering function** | | | | | |
| **with ETU650 (LSI)** | | | **E** | | ✓ |
| **with ETU660 (LSIG)** | | | **F** | | ✓ |
| | With display, without communications interface, without metering function | **A** | | | ✓ |
| | 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** | | | ✓ |

[1] Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT

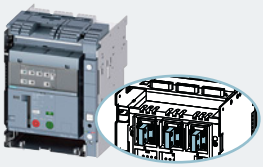
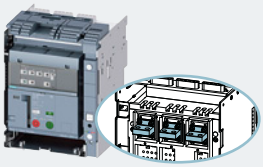
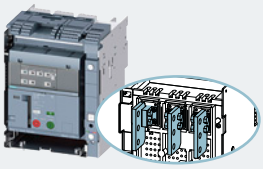
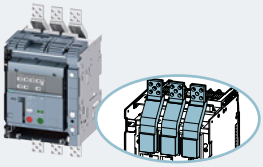


Minimum order quantity (PS) or a multiple thereof can be ordered.

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## 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) | | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| | | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | | |
| | A | d | | | | | |
| **Withdrawable breaker version without guide frame** | | | | | | | |
|  | 630 | | **3WL1006-1□□30-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-1□□30-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-1□□30-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-1□□30-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frame, rear vertical connection** | | | | | | | |
|  | 630 | | **3WL1006-1□□31-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-1□□31-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-1□□31-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-1□□31-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frame, rear horizontal connection** | | | | | | | |
|  | 630 | | **3WL1006-1□□32-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-1□□32-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-1□□32-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-1□□32-□□□□** | | 1 | 1 unit | 1CA |
| **Circular conductor terminal for Cu/Al cable lugs, rear terminal for main circuit connection** | | | | | | | |
|  | 630 | | **3WL1006-1□□34-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-1□□34-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-1□□34-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-1□□34-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frame, front-accessible, extended terminal for main circuit connection** | | | | | | | |
|  | 630 | | **3WL1006-1□□35-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-1□□35-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-1□□35-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-1□□35-□□□□** | | 1 | 1 unit | 1CA |

| **Including S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches** | | | | | Additional price |
|---|---|---|---|---|---|
| **ETU 3-series – Communications interface and metering function not possible** | | | | | |
| **with ETU320 (LI)** | **A** | **B** | | | ✓ |
| **with ETU350 (LSI)** | **A** | **C** | | | ✓ |
| **with ETU360 (LSIG)** | **A** | **D** | | | ✓ |
| **ETU 6-series – Expandable with communications interface[1] and metering function** | | | | | |
| **with ETU650 (LSI)** | | **E** | | | ✓ |
| **with ETU660 (LSIG)** | | **F** | | | ✓ |
| With display, without communications interface, without metering function | **A** | | | | ✓ |
| 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** | | | | ✓ |

[1] Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT, COM PSS

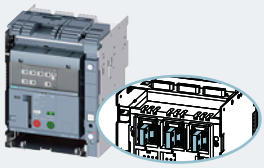
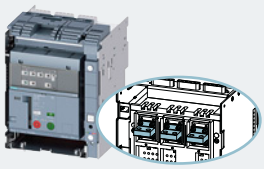
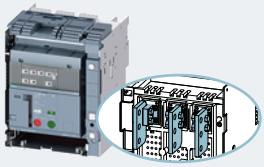
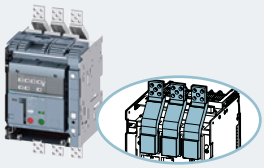
**Minimum order quantity (PS) or a multiple thereof can be ordered.**

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1

## 3-pole, withdrawable versions

| | 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 |
|---|---|---|---|---|---|---|
| | | | Article No. www.siemens.com/product?Article No. / Basic price per PU | | | |
| | A | d | | | | |
| **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 frame, 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 frame, 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 |
| **Circular conductor terminal for Cu/Al cable lugs, 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-accessible, 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 |

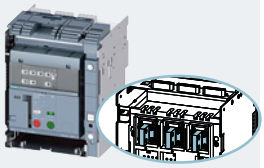
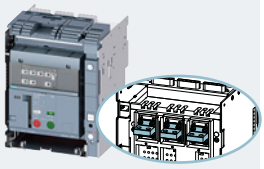
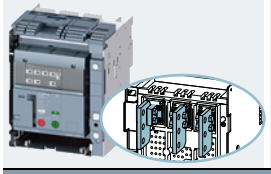
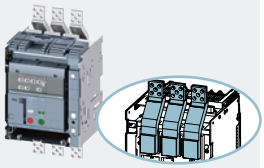
| **Including S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches** | | | | Additional price |
|---|---|---|---|---|
| **ETU 3-series – Communications interface and metering function not possible** | | | | |
| **with ETU320 (LI)** | **A** | **B** | | ✓ |
| **with ETU350 (LSI)** | **A** | **C** | | ✓ |
| **with ETU360 (LSIG)** | **A** | **D** | | ✓ |
| **ETU 6-series – Expandable with communications interface[1] and metering function** | | | | |
| **with ETU650 (LSI)** | | **E** | | ✓ |
| **with ETU660 (LSIG)** | | **F** | | ✓ |
| With display, without communications interface, without metering function | **A** | | | ✓ |
| 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** | | | ✓ |

[1] Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT, COM PSS

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

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| | 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 |
|---|---|---|---|---|---|---|
| | | | Article No. www.siemens.com/product?Article No. / Basic price per PU | | | |
| | A | d | | | | |
| **Withdrawable breaker version without guide frame** | | | | | | |
|  | 630 | | **3WL1006-3□□30-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3□□30-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3□□30-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3□□30-□□□□** | 1 | 1 unit | 1CA |
| **With guide frame, rear vertical connection** | | | | | | |
|  | 630 | | **3WL1006-3□□31-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3□□31-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3□□31-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3□□31-□□□□** | 1 | 1 unit | 1CA |
| **With guide frame, rear horizontal connection** | | | | | | |
|  | 630 | | **3WL1006-3□□32-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3□□32-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3□□32-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3□□32-□□□□** | 1 | 1 unit | 1CA |
| **Circular conductor terminal for Cu/Al cable lugs, rear terminal for main circuit connection** | | | | | | |
|  | 630 | | **3WL1006-3□□34-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3□□34-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3□□34-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3□□34-□□□□** | 1 | 1 unit | 1CA |
| **With guide frame, front-accessible, extended terminal for main circuit connection** | | | | | | |
|  | 630 | | **3WL1006-3□□35-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3□□35-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3□□35-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3□□35-□□□□** | 1 | 1 unit | 1CA |

| **Including S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches** | | | | Additional price |
|---|---|---|---|---|
| **ETU 3-series – Communications interface and metering function not possible** | | | | |
| **with ETU320 (LI)** | **A** | **B** | | ✓ |
| **with ETU350 (LSI)** | **A** | **C** | | ✓ |
| **with ETU360 (LSIG)** | **A** | **D** | | ✓ |
| **ETU 6-series – Expandable with communications interface[1] and metering function** | | | | |
| **with ETU650 (LSI)** | | **E** | | ✓ |
| **with ETU660 (LSIG)** | | **F** | | ✓ |
| With display, without communications interface, without metering function | **A** | | | ✓ |
| 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** | | | ✓ |

[1] Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT, COM PSS

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

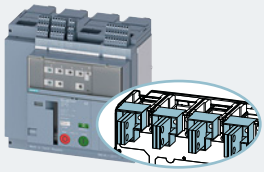
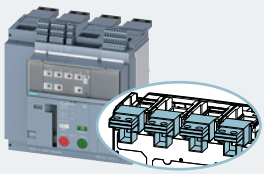
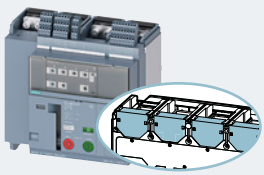
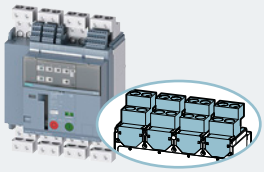
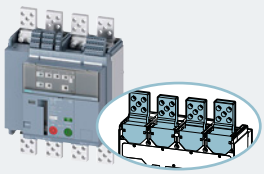
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## 4-pole, fixed-mounted versions

### 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) — Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| | | A | d | | | | | |
| **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 Cu/Al 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 including S24, RTC and AUX 4 CO signaling and auxiliary switches | | | | | Additional price |
|---|---|---|---|---|---|
| **ETU 3-series – Communications interface and metering function not possible** | | | | | |
| **with ETU320 (LI)** | **A** | **B** | | | ✓ |
| **with ETU350 (LSI)** | **A** | **C** | | | ✓ |
| **with ETU360 (LSIG)** | **A** | **D** | | | ✓ |
| **ETU 6-series – Expandable with communications interface[1] and metering function** | | | | | |
| **with ETU650 (LSI)** | | **E** | | | ✓ |
| **with ETU660 (LSIG)** | | **F** | | | ✓ |
| With display, without communications interface, without metering function | **A** | | | | ✓ |
| 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** | | | | ✓ |

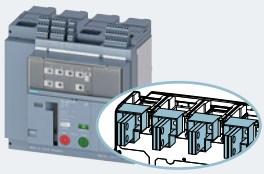
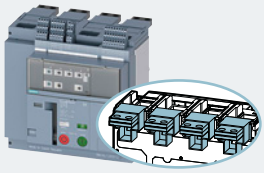
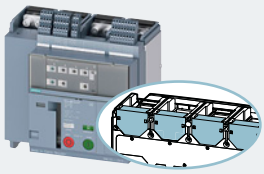
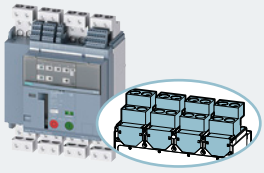
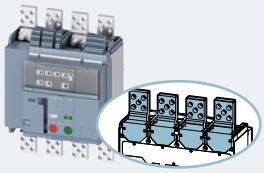
[1] Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT



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

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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 |
|---|---|---|---|---|---|---|---|
| | | | | Article No. www.siemens.com/product?Article No. — Basic price per PU | | | |
| | | A | d | | | | |
| **Rear vertical connection** | | | | | | | |
|  | Neutral left | 630 | | **3WL1006-2□□11-□□□□** | 1 | 1 unit | 1CA |
| | | 800 | | **3WL1008-2□□11-□□□□** | 1 | 1 unit | 1CA |
| | | 1000 | | **3WL1010-2□□11-□□□□** | 1 | 1 unit | 1CA |
| | | 1250 | | **3WL1012-2□□11-□□□□** | 1 | 1 unit | 1CA |
| | Neutral right | 630 | | **3WL1006-2□□21-□□□□** | 1 | 1 unit | 1CA |
| | | 800 | | **3WL1008-2□□21-□□□□** | 1 | 1 unit | 1CA |
| | | 1000 | | **3WL1010-2□□21-□□□□** | 1 | 1 unit | 1CA |
| | | 1250 | | **3WL1012-2□□21-□□□□** | 1 | 1 unit | 1CA |
| **Rear horizontal connection** | | | | | | | |
|  | Neutral left | 630 | | **3WL1006-2□□12-□□□□** | 1 | 1 unit | 1CA |
| | | 800 | | **3WL1008-2□□12-□□□□** | 1 | 1 unit | 1CA |
| | | 1000 | | **3WL1010-2□□12-□□□□** | 1 | 1 unit | 1CA |
| | | 1250 | | **3WL1012-2□□12-□□□□** | 1 | 1 unit | 1CA |
| | Neutral right | 630 | | **3WL1006-2□□22-□□□□** | 1 | 1 unit | 1CA |
| | | 800 | | **3WL1008-2□□22-□□□□** | 1 | 1 unit | 1CA |
| | | 1000 | | **3WL1010-2□□22-□□□□** | 1 | 1 unit | 1CA |
| | | 1250 | | **3WL1012-2□□22-□□□□** | 1 | 1 unit | 1CA |
| **Front terminal for main circuit connection** | | | | | | | |
|  | Neutral left | 630 | | **3WL1006-2□□13-□□□□** | 1 | 1 unit | 1CA |
| | | 800 | | **3WL1008-2□□13-□□□□** | 1 | 1 unit | 1CA |
| | | 1000 | | **3WL1010-2□□13-□□□□** | 1 | 1 unit | 1CA |
| | | 1250 | | **3WL1012-2□□13-□□□□** | 1 | 1 unit | 1CA |
| | Neutral right | 630 | | **3WL1006-2□□23-□□□□** | 1 | 1 unit | 1CA |
| | | 800 | | **3WL1008-2□□23-□□□□** | 1 | 1 unit | 1CA |
| | | 1000 | | **3WL1010-2□□23-□□□□** | 1 | 1 unit | 1CA |
| | | 1250 | | **3WL1012-2□□23-□□□□** | 1 | 1 unit | 1CA |
| **Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection** | | | | | | | |
|  | Neutral left | 630 | | **3WL1006-2□□14-□□□□** | 1 | 1 unit | 1CA |
| | | 800 | | **3WL1008-2□□14-□□□□** | 1 | 1 unit | 1CA |
| | | 1000 | | **3WL1010-2□□14-□□□□** | 1 | 1 unit | 1CA |
| | | 1250 | | **3WL1012-2□□14-□□□□** | 1 | 1 unit | 1CA |
| | Neutral right | 630 | | **3WL1006-2□□24-□□□□** | 1 | 1 unit | 1CA |
| | | 800 | | **3WL1008-2□□24-□□□□** | 1 | 1 unit | 1CA |
| | | 1000 | | **3WL1010-2□□24-□□□□** | 1 | 1 unit | 1CA |
| | | 1250 | | **3WL1012-2□□24-□□□□** | 1 | 1 unit | 1CA |
| **Front connection bars, extended** | | | | | | | |
|  | Neutral left | 630 | | **3WL1006-2□□15-□□□□** | 1 | 1 unit | 1CA |
| | | 800 | | **3WL1008-2□□15-□□□□** | 1 | 1 unit | 1CA |
| | | 1000 | | **3WL1010-2□□15-□□□□** | 1 | 1 unit | 1CA |
| | | 1250 | | **3WL1012-2□□15-□□□□** | 1 | 1 unit | 1CA |
| | Neutral right | 630 | | **3WL1006-2□□25-□□□□** | 1 | 1 unit | 1CA |
| | | 800 | | **3WL1008-2□□25-□□□□** | 1 | 1 unit | 1CA |
| | | 1000 | | **3WL1010-2□□25-□□□□** | 1 | 1 unit | 1CA |
| | | 1250 | | **3WL1012-2□□25-□□□□** | 1 | 1 unit | 1CA |

| **Versions including S24, RTC and AUX 4 CO signaling and auxiliary switches** | | | | | Additional price |
|---|---|---|---|---|---|
| **ETU 3-series – Communications interface and metering function not possible** | | | | | |
| **with ETU320 (LI)** | | **A** | **B** | | ✓ |
| **with ETU350 (LSI)** | | **A** | **C** | | ✓ |
| **with ETU360 (LSIG)** | | **A** | **D** | | ✓ |
| **ETU 6-series – Expandable with communications interface[1] and metering function** | | | | | |
| **with ETU650 (LSI)** | | | **E** | | ✓ |
| **with ETU660 (LSIG)** | | | **F** | | ✓ |
| | With display, without communications interface, without metering function | **A** | | | ✓ |
| | 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** | | | ✓ |

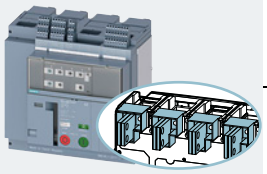
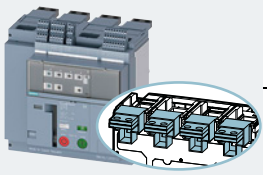
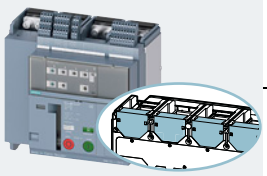
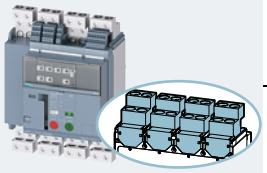
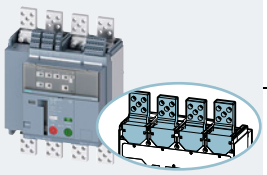
[1] Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT

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

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## 4-pole, fixed-mounted 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 |
|---|---|---|---|---|---|---|---|---|
| | | | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | | |
| | | A | d | | | | | |
| **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 Cu/Al 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 including S24, RTC and AUX 4 CO signaling and auxiliary switches** | | | | | Additional price |
|---|---|---|---|---|---|
| **ETU 3-series – Communications interface and metering function not possible** | | | | | |
| **with ETU320 (LI)** | | **A** | **B** | | ✓ |
| **with ETU350 (LSI)** | | **A** | **C** | | ✓ |
| **with ETU360 (LSIG)** | | **A** | **D** | | ✓ |
| **ETU 6-series – Expandable with communications interface[1] and metering function** | | | | | |
| **with ETU650 (LSI)** | | | **E** | | ✓ |
| **with ETU660 (LSIG)** | | | **F** | | ✓ |
| | With display, without communications interface, without metering function | **A** | | | ✓ |
| | 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** | | | ✓ |

[1] Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT

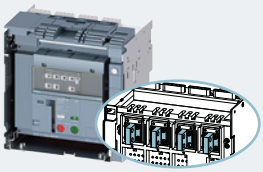
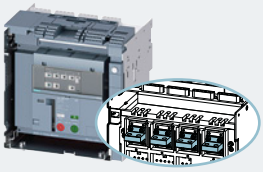
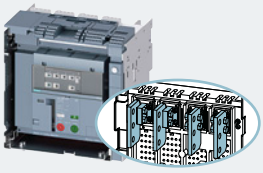
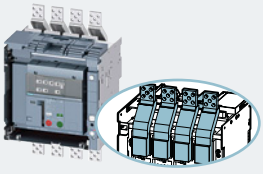


Minimum order quantity (PS) or a multiple thereof can be ordered.

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## 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) | | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| | | | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | | |
| | | A | d | | | | | |
| **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 frame, 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 frame, 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 terminal for Cu/Al cable lug, 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-accessible, 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 |

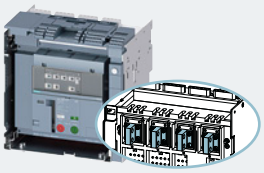
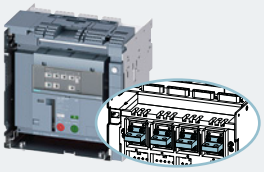
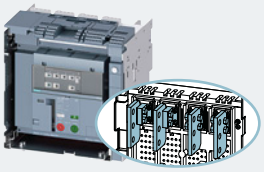
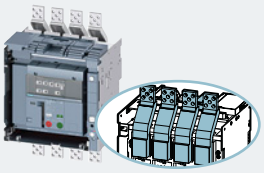
| **Including S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches** | | | | | Additional price |
|---|---|---|---|---|---|
| **ETU 3-series – Communications interface and metering function not possible** | | | | | |
| **with ETU320 (LI)** | **A** | **B** | | | ✓ |
| **with ETU350 (LSI)** | **A** | **C** | | | ✓ |
| **with ETU360 (LSIG)** | **A** | **D** | | | ✓ |
| **ETU 6-series – Expandable with communications interface[1] and metering function** | | | | | |
| **with ETU650 (LSI)** | | **E** | | | ✓ |
| **with ETU660 (LSIG)** | | **F** | | | ✓ |
| With display, without communications interface, without metering function | **A** | | | | ✓ |
| 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** | | | | ✓ |

[1] Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT, COM PSS

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

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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) — Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| | | A | d | | | | | |
| **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 frame, 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 frame, 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 terminal for Cu/Al cable lug, 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-accessible, 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 |

| Including S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches | | | | Additional price |
|---|---|---|---|---|
| **ETU 3-series – Communications interface and metering function not possible** | | | | |
| **with ETU320 (LI)** | **A** | **B** | | ✓ |
| **with ETU350 (LSI)** | **A** | **C** | | ✓ |
| **with ETU360 (LSIG)** | **A** | **D** | | ✓ |
| **ETU 6-series – Expandable with communications interface[1] and metering function** | | | | |
| **with ETU650 (LSI)** | | **E** | | ✓ |
| **with ETU660 (LSIG)** | | **F** | | ✓ |
| With display, without communications interface, without metering function | **A** | | | ✓ |
| 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** | | | ✓ |

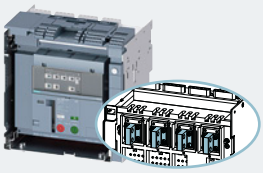
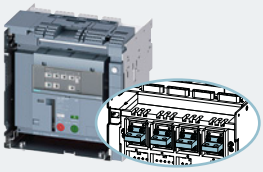
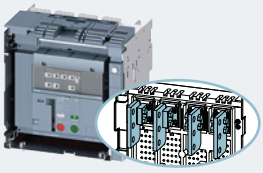
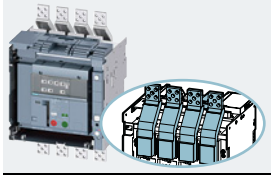
[1] Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT, COM PSS



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

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| | | 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 |
|---|---|---|---|---|---|---|---|
| | | | | Article No. www.siemens.com/product?Article No. / Basic price per PU | | | |
| | | A | d | | | | |
| **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 frame, 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 frame, 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 terminal for Cu/Al cable lug, 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-accessible, 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 |

| **Including S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches** | | | | | Additional price |
|---|---|---|---|---|---|
| **ETU 3-series – Communications interface and metering function not possible** | | | | | |
| **with ETU320 (LI)** | | **A** | **B** | | ✓ |
| **with ETU350 (LSI)** | | **A** | **C** | | ✓ |
| **with ETU360 (LSIG)** | | **A** | **D** | | ✓ |
| **ETU 6-series – Expandable with communications interface[1] and metering function** | | | | | |
| **with ETU650 (LSI)** | | | **E** | | ✓ |
| **with ETU660 (LSIG)** | | | **F** | | ✓ |
| | With display, without communications interface, without metering function | **A** | | | ✓ |
| | 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** | | | ✓ |

[1] Communications interface = incl. Breaker Connect module (24 V), COM RTC, COM ACT, COM PSS

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

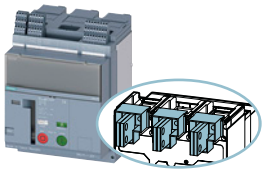
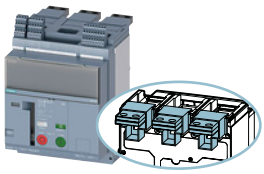
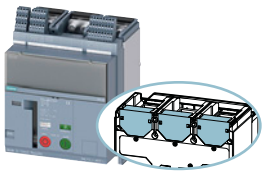
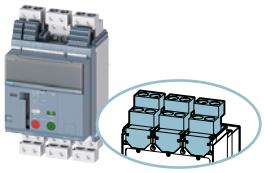
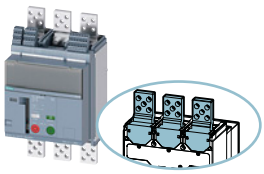
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## Fixed-mounted non-automatic air circuit breakers

### 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) Article No. www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| | A | d | | | | | |
| **Rear vertical connection** | | | | | | | |
|  | 630 | | **3WL1006-2AA01-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2AA01-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2AA01-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2AA01-□□□□** | | 1 | 1 unit | 1CA |
| **Rear horizontal connection** | | | | | | | |
|  | 630 | | **3WL1006-2AA02-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2AA02-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2AA02-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2AA02-□□□□** | | 1 | 1 unit | 1CA |
| **Front terminal for main circuit connection** | | | | | | | |
|  | 630 | | **3WL1006-2AA03-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2AA03-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2AA03-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2AA03-□□□□** | | 1 | 1 unit | 1CA |
| **Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection** | | | | | | | |
|  | 630 | | **3WL1006-2AA04-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2AA04-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2AA04-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2AA04-□□□□** | | 1 | 1 unit | 1CA |
| **Front connection bars, extended** | | | | | | | |
|  | 630 | | **3WL1006-2AA05-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2AA05-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2AA05-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2AA05-□□□□** | | 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.

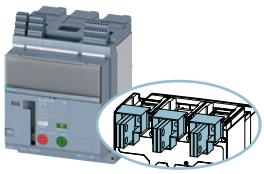
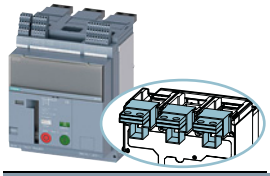
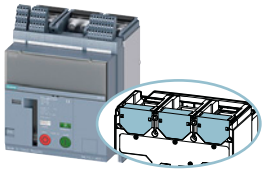
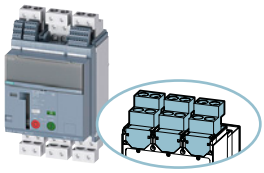
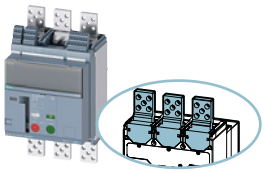
The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts.



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

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| 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 |
|---|---|---|---|---|---|---|
| | | | Article No. www.siemens.com/product?Article No. / Basic price per PU | | | |
| | A | d | | | | |
| **Rear vertical connection** | | | | | | |
|  | 630 | | **3WL1006-3AA01-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3AA01-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3AA01-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3AA01-□□□□** | 1 | 1 unit | 1CA |
| **Rear horizontal connection** | | | | | | |
|  | 630 | | **3WL1006-3AA02-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3AA02-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3AA02-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3AA02-□□□□** | 1 | 1 unit | 1CA |
| **Front terminal for main circuit connection** | | | | | | |
|  | 630 | | **3WL1006-3AA03-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3AA03-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3AA03-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3AA03-□□□□** | 1 | 1 unit | 1CA |
| **Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection** | | | | | | |
|  | 630 | | **3WL1006-3AA04-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3AA04-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3AA04-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3AA04-□□□□** | 1 | 1 unit | 1CA |
| **Front connection bars, extended** | | | | | | |
|  | 630 | | **3WL1006-3AA05-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3AA05-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3AA05-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3AA05-□□□□** | 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.

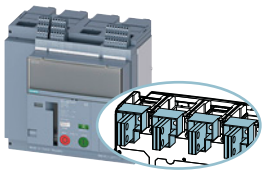
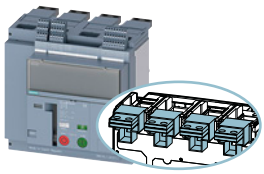
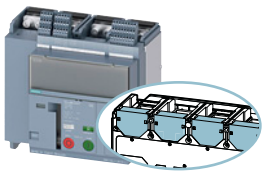
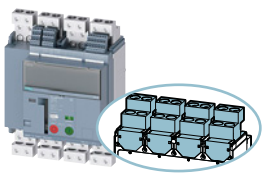
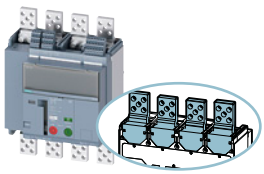
The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts.

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## Fixed-mounted 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 |
|---|---|---|---|---|---|---|---|
| | | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | | |
| | A | d | | | | | |
| **Rear vertical connection** | | | **N left** | **N right** | | | |
|  | 630 | | **3WL1006-2AA11-□□□□** | **3WL1006-2AA21-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2AA11-□□□□** | **3WL1008-2AA21-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2AA11-□□□□** | **3WL1010-2AA21-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2AA11-□□□□** | **3WL1012-2AA21-□□□□** | 1 | 1 unit | 1CA |
| **Rear horizontal connection** | | | | | | | |
|  | 630 | | **3WL1006-2AA12-□□□□** | **3WL1006-2AA22-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2AA12-□□□□** | **3WL1008-2AA22-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2AA12-□□□□** | **3WL1010-2AA22-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2AA12-□□□□** | **3WL1012-2AA22-□□□□** | 1 | 1 unit | 1CA |
| **Front terminal for main circuit connection** | | | | | | | |
|  | 630 | | **3WL1006-2AA13-□□□□** | **3WL1006-2AA23-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2AA13-□□□□** | **3WL1008-2AA23-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2AA13-□□□□** | **3WL1010-2AA23-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2AA13-□□□□** | **3WL1012-2AA23-□□□□** | 1 | 1 unit | 1CA |
| **Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection** | | | | | | | |
|  | 630 | | **3WL1006-2AA14-□□□□** | **3WL1006-2AA24-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2AA14-□□□□** | **3WL1008-2AA24-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2AA14-□□□□** | **3WL1010-2AA24-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2AA14-□□□□** | **3WL1012-2AA24-□□□□** | 1 | 1 unit | 1CA |
| **Front connection bars, extended** | | | | | | | |
|  | 630 | | **3WL1006-2AA15-□□□□** | **3WL1006-2AA25-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2AA15-□□□□** | **3WL1008-2AA25-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2AA15-□□□□** | **3WL1010-2AA25-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **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.

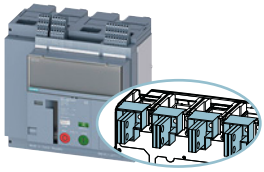
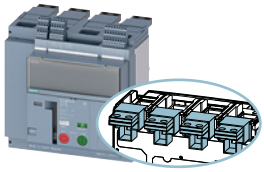
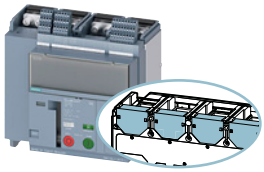
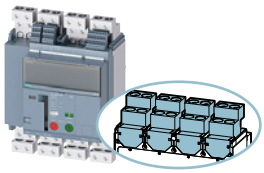
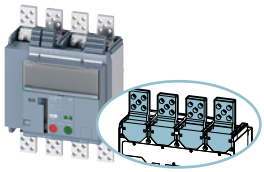
The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts.



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

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| **4-pole** | Max. rated circuit breaker current $I_{n\,max}$ | SD | **$I_{cc}$ 50 kA at 440 V, Class S** Article No. www.siemens.com/product?Article No. | | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| | A | d | | | | | |
| **Rear vertical connection** | | | **N left** | **N right** | | | |
|  | 630 | | **3WL1006-2AA11-□□□□** | **3WL1006-2AA21-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2AA11-□□□□** | **3WL1008-2AA21-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2AA11-□□□□** | **3WL1010-2AA21-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2AA11-□□□□** | **3WL1012-2AA21-□□□□** | 1 | 1 unit | 1CA |
| **Rear horizontal connection** | | | | | | | |
|  | 630 | | **3WL1006-2AA12-□□□□** | **3WL1006-2AA22-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2AA12-□□□□** | **3WL1008-2AA22-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2AA12-□□□□** | **3WL1010-2AA22-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2AA12-□□□□** | **3WL1012-2AA22-□□□□** | 1 | 1 unit | 1CA |
| **Front terminal for main circuit connection** | | | | | | | |
|  | 630 | | **3WL1006-2AA13-□□□□** | **3WL1006-2AA23-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2AA13-□□□□** | **3WL1008-2AA23-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2AA13-□□□□** | **3WL1010-2AA23-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2AA13-□□□□** | **3WL1012-2AA23-□□□□** | 1 | 1 unit | 1CA |
| **Circular conductor terminal for Cu/Al cable, front terminal for main circuit connection** | | | | | | | |
|  | 630 | | **3WL1006-2AA14-□□□□** | **3WL1006-2AA24-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2AA14-□□□□** | **3WL1008-2AA24-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2AA14-□□□□** | **3WL1010-2AA24-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-2AA14-□□□□** | **3WL1012-2AA24-□□□□** | 1 | 1 unit | 1CA |
| **Front connection bars, extended** | | | | | | | |
|  | 630 | | **3WL1006-2AA15-□□□□** | **3WL1006-2AA25-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-2AA15-□□□□** | **3WL1008-2AA25-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-2AA15-□□□□** | **3WL1010-2AA25-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **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.

The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts.

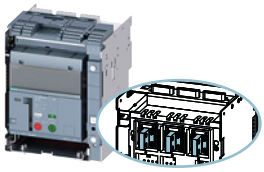
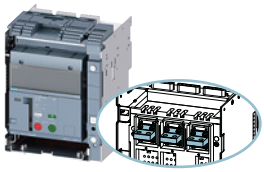
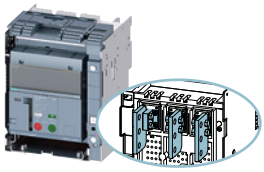
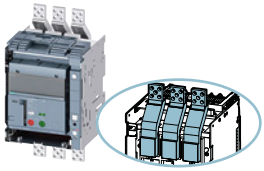
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## Withdrawable non-automatic circuit breakers

### 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 |
|---|---|---|---|---|---|---|---|
| | | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | | |
| | A | d | | | | | |
| **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 frame, 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 frame, 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 terminal for Cu/Al cable lug, 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-accessible, 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.

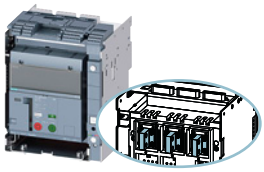
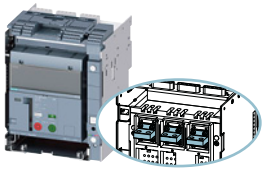
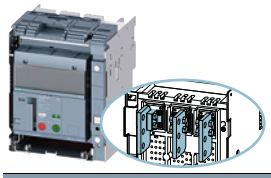
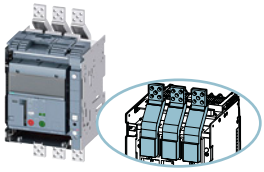
The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts and PSS signaling switches (in frame).



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

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| 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 |
|---|---|---|---|---|---|---|---|
| | | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | | |
| | A | d | | | | | |
| **Withdrawable breaker version without guide frame** | | | | | | | |
|  | 630 | | **3WL1006-3AA30-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3AA30-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3AA30-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3AA30-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frame, rear vertical connection** | | | | | | | |
|  | 630 | | **3WL1006-3AA31-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3AA31-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3AA31-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3AA31-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frame, rear horizontal connection** | | | | | | | |
|  | 630 | | **3WL1006-3AA32-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3AA32-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3AA32-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3AA32-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frame, circular conductor terminal for Cu/Al cable lug, rear terminal for main circuit connection** | | | | | | | |
|  | 630 | | **3WL1006-3AA34-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3AA34-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3AA34-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3AA34-□□□□** | | 1 | 1 unit | 1CA |
| **With guide frame, front-accessible, extended terminal for main circuit connection** | | | | | | | |
|  | 630 | | **3WL1006-3AA35-□□□□** | | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3AA35-□□□□** | | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3AA35-□□□□** | | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3AA35-□□□□** | | 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.

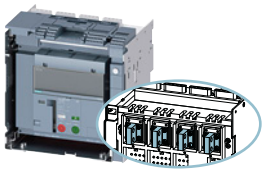
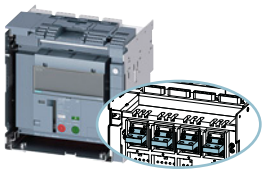
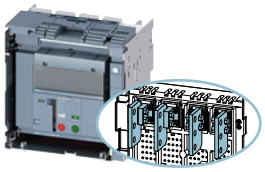
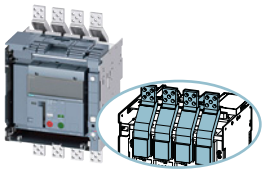
The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts and PSS signaling switches (in frame).

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## Withdrawable non-automatic circuit breakers

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

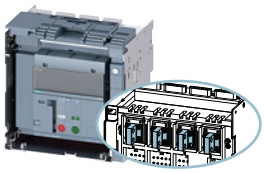
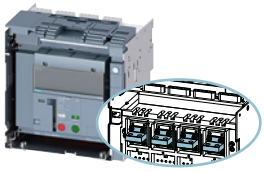
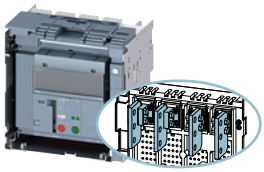
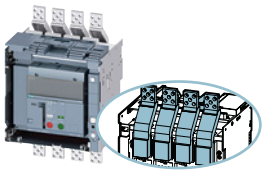
The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts and PSS signaling switches (in frame).



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

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| **4-pole** | Max. rated circuit breaker current $I_{n\,max}$ | SD | **$I_{cc}$ 50 kA at 440 V, Class S** Ⓢ<br>Article No. www.siemens.com/product?Article No. | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|
| | A | d | | | | |
| **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 frame, rear vertical connection** | | | | | | |
|  | 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** | | | | | | |
|  | 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 for Cu/Al cable lug, rear terminal for main circuit connection** | | | | | | |
|  | 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-accessible, extended terminal for main circuit connection** | | | | | | |
|  | 630 | | **3WL1006-3AA45-□□□□ 3WL1006-3AA55-□□□□** | 1 | 1 unit | 1CA |
| | 800 | | **3WL1008-3AA45-□□□□ 3WL1008-3AA55-□□□□** | 1 | 1 unit | 1CA |
| | 1000 | | **3WL1010-3AA45-□□□□ 3WL1010-3AA55-□□□□** | 1 | 1 unit | 1CA |
| | 1250 | | **3WL1012-3AA45-□□□□ 3WL1012-3AA55-□□□□** | 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.

The non-automatic circuit breaker is always supplied with AUX 4 CO auxiliary contacts and PSS signaling switches (in frame).

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1

## Options

### Overview

| | | Article No. supplement 3WL10…-…..- □□□□ | Additional price |
|---|---|---|---|
| **Operators** | | | |
| Type | $U_s$ V AC/DC | | |
| **Manual operator (no spring charging motor)** | -- | **0** | **None** |
| **With spring charging motor** | 24-30 | **1** | ✓ |
| Scope of supply: Spring charging motor and spring charged signaling switch S21. When a spring charging motor is used, a closing coil (CC) and a shunt release (ST) are useful to permit electrical ON/OFF switching. | 48-60 | **2** | ✓ |
| | 110 | **3** | ✓ |
| | 230 | **4** | ✓ |
| **Closing coil, remote reset magnet (CC and RR)** | | | |
| Type | $U_s$ V AC/DC | | |
| **Without closing coil (CC), without remote reset magnet (RR)** | -- | **A** | **None** |
| **Closing coil (CC)** | 24 | **B** | ✓ |
| Recommended when spring charging motor is used. | 30 | **C** | ✓ |
| | 48 | **D** | ✓ |
| | 60 | **E** | ✓ |
| | 110 ... 120 | **F** | ✓ |
| | 120 ... 127 | **G** | ✓ |
| | 220 ... 240 | **H** | ✓ |
| | 240 ... 250 | **J** | ✓ |
| **Closing coil (CC) and remote reset magnet (RR) in addition** | 24 | **K** | ✓ |
| | 110 | **L** | ✓ |
| | 220 | **M** | ✓ |
| **1st auxiliary release, shunt release (ST)** | | | |
| Type | $U_s$ V AC/DC | | |
| **Without 1st auxiliary release** | -- | **0** | **None** |
| **Shunt release (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 release or 2nd shunt release (UVR / ST2)** | | | |
| Type | $U_s$ V AC/DC | | |
| **Without 2nd auxiliary release** | -- | **A** | **None** |
| **Undervoltage release (UVR)** | 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), delayable with external time-delay device Scope of supply: UVR + 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** | ✓ |



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

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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.<br>As standard, the Electronic Trip Units are equipped with a rating plug for setting the rated current $I_n$, which is equal to the maximum rated circuit breaker current ($I_{n\,max}$). To downrate the circuit breaker, a rated current smaller than $I_{n\,max}$ is selected for the rating plug by means of a Z option. Other functions can also be activated using rating plugs (L = OFF or Rc protection). | | | | |
| Rating 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 (≤ $I_{n\,max}$) of rated current $I_n$. | Only for ETUs of the 6-series | 400 | **L 0 4** | -- |
| | | 630 | **L 0 6** | -- |
| | | 800 | **L 0 8** | -- |
| | | 1000 | **L 1 0** | -- |
| | | 1250 | **L 1 2** | -- |
| Rc rating plug for ETU660, for enabling the residual current protection function and for setting (≤ $I_{n\,max}$) of 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.<br>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.<br>Can only be used with ETUs of the 6-series. | COM040[1)] | PROFIBUS | **F 0 2** | ✓ |
| | COM041[1)] | PROFINET | **F 0 3** | ✓ |
| | COM043 | Modbus TCP | **F 1 1** | ✓ |
| | COM042 | Modbus RTU | **F 1 2** | ✓ |
| **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.<br>When using a digital I/O module IOM040 (K56), only 1 communication module can be used.<br>Can only be used with ETUs of the 6-series and communications interface selection. | 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 communications interface is ordered, a Breaker Connect module for external 24 V DC power supply of the electronic components is also supplied ready installed.<br>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** | -- |

[1)] Availability scheduled for 1st quarter 2019

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## 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.<br><br>For currents < 100 mA for PLC connections, these auxiliary and signaling switches can be replaced.<br>The auxiliary/signaling switches for 24 V DC digital signals are designed for a<br>- smallest load above 1 mA at 5 V DC and a<br>- maximum breaking capacity of 100 mA at 24 V DC. | Ready-to-close signaling | 1 CO digital | **K 5 0** | ✓ |
| | Auxiliary current switch ON / OFF AUX | 4 CO digital | **K 5 1** | ✓ |
| | Auxiliary current switch ON / OFF AUX | 2 CO standard + 2 CO digital | **K 5 2** | ✓ |
| | Tripped signaling switch S24 | 1 CO digital | **K 5 3** | ✓ |
| | Spring charged signaling switch S21<br>Only in combination with a spring charging motor. | 1 CO digital | **K 5 4** | ✓ |
| | Position signaling switches PSS only with withdrawable versions[1)] | 6 CO; 2x connected, 2x test and 2x disconnected. | **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-mounted and withdrawable breakers. Can only be used up to IP3X degree of protection.<br>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-mounted breakers and withdrawable breakers)** | | | | |
| Conditions | Variant | 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 no more than 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 and/or OFF on the operator panel | Padlock 4 mm | Plastic for no more than 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).



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

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

**3WL....-.....-....-Z**
□□□ **+...+...**

Additional price

| Conditions | Variant | Version | | | | | |
|---|---|---|---|---|---|---|---|
| **Locking devices (for withdrawable version)** [1] | | | | | | | |
| 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 breaker 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 the side wall of the fixed-mounted circuit breaker for mechanical transmission of switch position** [1] [2] | | | | | | | |
| Pre-installed mounting support standard (circuit breaker feet) for mounting the fixed-mounted breaker on the floor | Fixed-mounted, Floor fixation | Mounting support, standard | **A** | **0** | **7** | | ✓ |
| Pre-installed extension kit, for mechanical transmission of switch position on circuit breaker side wall; allows attachment of<br>• Fixation for external auxiliary switches AUX 15 CO (3VW9011-0AG15)<br>• Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10)<br>• Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16)<br>• Mechanical interlocking to 3WL/3VA (for 3VW9011-0BB21) | Fixed-mounted, Floor fixation | Mounting support extended [3] | **S** | **5** | **6** | | ✓ |
| | Fixed-mounted, Rear fixation on mounting plate | Side wall 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 wall.

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

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## Selection and ordering data

| | | | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| **Guide frames for ordering separately without circuit breakers**[1] | | | | | | | | |
| Description | Number of poles | Connection type | | | | | | |
| Guide frames without breakers up to 1250 A  | 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 lugs | | **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 lugs | | **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 COM04x / IOM300 / Breaker Connect module, as well as COMPSS signaling switches are configured without frames in the withdrawable breaker and defined there by means of Z options and included with the switching device. PSS Standard is always included in the frame and can be changed to an electronics-capable signal by means of a Z option.

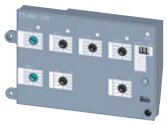
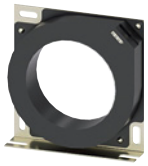
| | | | **3VW8....-.....-....-Z** □□□ **+...+...** | Additional price |
|---|---|---|---|---|
| Add "**-Z**" to the complete Article No. and indicate the appropriate order code(s). | | | | |
| **Locking devices (for guide frame)** | | | | |
| Description | Variant | Version | | |
| Locking device to 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 breaker in disconnected position. Supplement to R78 and/or R65. Only possible when using R78 or R65. | Locking mechanism | | **R 7 9** | ✓ |
| **Auxiliary/signaling switches for 24 V DC digital signals for extremely low** | | | | |
| Conditions | Type | Version | | |
| Auxiliary and signaling switches for currents > 100 mA and up to 400 V AC are installed as standard.<br>For currents < 100 mA for PLC connections, these auxiliary and signaling switches can be modified.<br>The auxiliary/signaling switches for 24 V DC digital signals are designed for a<br>- smallest load above 1 mA at 5 V DC and a<br>- maximum breaking capacity of 100 mA at 24 V DC. | Position signaling switch PSS 24V digital | 6 CO; 2x connected, 2x test and 2x disconnected | **K 5 5** | ✓ |



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

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| | | | | SD d | 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 | | | | | | | |
|  | $G_{ret}$ = Ground return 100 A | ETU660 | | | **3VW9011-0GF30** | | 1 | 1 unit | 1CB |
| | $G_{ret}$ = Ground return 250 A | 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<br>Only with MF Advanced metering function and Rc rating plug | | | **3VW9011-0RC30** | | 1 | 1 unit | 1CB |

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## Accessories and spare parts

### Rating plugs




Only one module is possible per circuit breaker.

As standard, the Electronic Trip Units are equipped with a rating plug for setting the rated current $I_n$, which is equal to the maximum rated circuit breaker current (< $I_{n\,max}$). The rated current of the selected rating plug must be smaller than or equal to $I_{n\,max}$. To downrate the circuit breaker, a rated current smaller than $I_{n\,max}$ is selected for the rating plug by means of a Z option. Other functions can also be activated using rating plugs (L = OFF or Rc protection).

| Description | For ETU | Rated current $I_n$ A | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| 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 $I_n$. | Only for ETUs of the 6-series | 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 |
| | | 1250 | | **3VW9011-0RC58** | | 1 | 1 unit | 1CB |

### Remote reset magnet for tripped signaling



| Description | Can be used for ETU | Version | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| Remote reset magnet (RR) for resetting the circuit breaker after tripping as a result of overcurrent conditions | All | 24 V DC | **3VW9011-0AK03** | | 1 | 1 unit | 1CB |
| | All | 110 V AC/DC | **3VW9011-0AK05** | | 1 | 1 unit | 1CB |
| | All | 250 V AC/DC | **3VW9011-0AK06** | | 1 | 1 unit | 1CB |

### Replacement battery for ETU



| Description | Can be used for ETU | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|
| Replacement battery for Electronic Trip Unit | All | **3VW9011-0AT38** | | 1 | 1 unit | 1CB |

### CB bus modules - communication modules



| Description | Communication module | Protocol | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| These contain the communication module. 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. Can only be used with ETUs of the 6-series and require a Breaker Connect module for connection to the circuit breaker. This can also be configured directly on the device by means of a Z option if the communications interface to the ETU 6-series is selected. | COM040[1)] | Profibus | **3VW9011-0AT15** | | 1 | 1 unit | 1CB |
| | COM041[1)] | Profinet | **3VW9011-0AT14** | | 1 | 1 unit | 1CB |
| | COM043 | Modbus TCP | **3VW9011-0AT16** | | 1 | 1 unit | 1CB |
| | COM042 | Modbus RTU | **3VW9011-0AT17** | | 1 | 1 unit | 1CB |

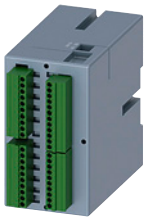
[1)] Start of delivery scheduled for 2nd quarter 2019



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

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| | | | | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| **CB bus modules - I/O modules external IOM300** | | | | | | | | | |
| | Description | Type | Version | | | | | | |
|  | External I/O module for snapping onto DIN rail with 11 inputs and 10 outputs for voltages ≤ 150 V DC and for 250 V AC.<br>Maximum switching current per contact:<br>- 2 A at ≤ 30 V DC<br>- 0.8 A at 50 V DC<br>- 0.2 A at 150 V DC<br>- 4 A at 250 V AC<br>Can only be used with ETUs of the 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 IOM040** | | | | | | | | | |
| | Description | Type | Version | | | | | | |
|  | I/O module with 2 inputs and 2 outputs for voltages ≤ 150 V DC and for 250 V AC.<br>Maximum switching current per contact:<br>- 2 A at ≤ 30 V DC<br>- 0.8 A at 50 V DC<br>- 0.2 A at 150 V DC<br>- 4 A at 250 V AC<br>When using a digital I/O module IOM040, only 1 communication module can be used.<br>Can only be used with ETUs of the 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).<br>Can only be used in combination with a communication module, spring charging motor, closing coil and 1st shunt release.<br>Can only be used with ETUs of the 6-series.<br>Automatically included if the communications interface of the ETU 6-series is selected in the basic circuit breaker configuration. | | | | **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 | | **3VW9011-0AT06** | | 1 | 1 unit | 1CB |
| | | | 24 - 48 V DC | | **3VW9011-0AT07** | | 1 | 1 unit | 1CB |

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## Accessories and spare parts

### Auxiliary contact signals for communication



| Description | Type | Version | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| Auxiliary contacts for signaling the readiness to close or position signaling switches of the withdrawable positions.<br>Can only be used in combination with communication module.<br>Can be combined with standard position signaling switches or ready-to-close signaling contacts. | Ready-to-close signaling switch for communication (COM RTC) | For communications interface | | **3VW9011-0AT11** | | 1 | 1 unit | 1CB |
| | Position signaling switch for withdrawable breaker COM PSS only<br>Note: Both signaling switches automatically included if the communications interface of the ETU 6-series is selected in the basic circuit breaker (COM PSS only with withdrawable versions). | For communications interface | | **3VW9011-0AT12** | | 1 | 1 unit | 1CB |

### Test devices and Breaker Data Adapters



| Description | Version | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| Test device TD310 for the trip test via ETU and tripping solenoid including release.<br>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.<br>Can be used for all ETU 3-series and 6-series. | TD310 | | **3VW9011-0AT32** | | 1 | 1 unit | 1CB |
| 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 powerservice.<br>Can be used for all ETU 3-series and 6-series. | TD410 | | **3VW9011-0AT34** | | 1 | 1 unit | 1CB |
| Test device and Breaker Data Adapter TD420 as gateway for parameterization of the ETU with powerconfig:<br>- Testing a tripping operation using powerconfig<br>and the powerservice software:<br>- Testing of the basic protection functions LSING<br>- Testing of the enhanced protection functions<br>- Test data storage<br>- Readout of ETU buffer<br>- Generation of a report of the set parameters<br>Can be used for all ETU 3-series and 6-series. | TD420 | | **3VW9011-0AT33** | | 1 | 1 unit | 1CB |

### Auxiliary conductor terminals in push-in version



| Description | Version | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| Auxiliary conductor terminal in push-in version for upgrading fixed-mounted breakers and guide frames<br>The device is always equipped at the factory with the exact number of auxiliary conductor terminals required. | Push-in | | **3VW9011-0AB11** | | 1 | 10 units | 1CB |



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

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## Auxiliary/signaling switches



| Description | Type | Version | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| Auxiliary and signaling switches are each offered in two versions:<br>a) Standard version for currents > 100 mA and up to 400 V AC,<br>- smallest load above 100 mA at 24 V DC and a<br>- maximum breaking capacity of 5 A at 250 V AC.<br>b) Digital version for currents < 100 mA for PLC connections,<br>- smallest load above 1 mA at 5 V DC and a<br>- maximum breaking capacity of 100 mA at 24 V DC.<br>For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed-mounted breakers a 3VW9011-0BB5x side wall modification. | Ready-to-close signaling switch RTC always included in every device | 1 CO standard | | **3VW9011-0AH01** | | 1 | 1 unit | 1CB |
| | | 1 CO digital | | **3VW9011-0AH02** | | 1 | 1 unit | 1CB |
| | Auxiliary switch ON/OFF AUX always included in every device | 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 always included in every circuit breaker | 1 CO standard | | **3VW9011-0AH14** | | 1 | 1 unit | 1CB |
| | | 1 CO digital | | **3VW9011-0AH15** | | 1 | 1 unit | 1CB |
| | Spring charged signaling switch S21<br>Only in combination with a spring charging motor and always included in device configuration with MO. | 1 CO standard | | **3VW9011-0AH10** | | 1 | 1 unit | 1CB |
| | | 1 CO digital | | **3VW9011-0AH08** | | 1 | 1 unit | 1CB |
| | Position signaling switches PSS only with withdrawable versions. Always included in every frame or withdrawable circuit breaker. | 6 CO; 2x connected, 2x test and 2x disconnected; standard | | **3VW9011-0AH11** | | 1 | 1 unit | 1CB |
| | | 6 CO; 2x inserted, 2x test and 2x disconnected; digital. | | **3VW9011-0AH12** | | 1 | 1 unit | 1CB |

## Fixation for external auxiliary switches AUX 15 CO



| Description | Version | | | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| Fixation for external auxiliary switches ON/OFF AUX 15 CO.<br>External auxiliary switches ON/OFF AUX 15 CO are to be ordered separately. | Fixed-mounted breakers, rear wall or floor fixation (as a basis for this, the Z option S56 (3VW9011-0BB52) or S57 (3VW9011-0BB53) must additionally be used) | | **3VW9011-0AG15** | | 1 | 1 unit | 1CB |
| | For guide frame | | **3VW9011-0AG17** | | 1 | 1 unit | 1CB |

## Spring charging motors (MO)



| Description | Version | | | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| Spring charging motor for automatic charging of the stored energy operating mechanism | 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 CC / ST



| Description | Version | | | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| 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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## Accessories and spare parts

### Function test unit TD320 for closing coil / shunt release



| Description | Version | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| 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.<br>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:<br>LED POWER ON LIT: Correct function of the YO/YC test unit<br>LED DEACTIVATION LIT: Power supply failure, wire break<br>LED SHORT-CIRCUIT LIT: Winding short-circuit<br>LED DEACTIVATION and SHORT-CIRCUIT FLASHING: Incorrect power supply<br>LED DEACTIVATION and SHORT-CIRCUIT OFF: Closing coil / shunt release OK | For all closing coils / shunt releases | | **3VW9011-0AT31** | | 1 | 1 unit | 1CB |

### Undervoltage releases UVR



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

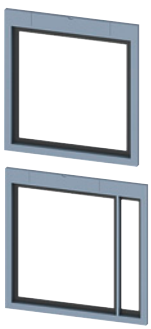
| Description | Version | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|
| External time-delay device for undervoltage release UVR with adjust able delay time from 0.5 to 3 s.<br>Suitable for mounting onto standard rail. | 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 |
| | 220 ... 250 V AC/DC | | **3VW9011-0AE13** | | 1 | 1 unit | 1CB |

### Mechanical operating cycles counter




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



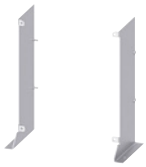
| Description | Type | Version | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| For fixed-mounted and withdrawable breakers. Can only be used up to IP3x degree of protection.<br>For IP4x and higher, you must order the protective cover IP54 3VW9011-0AP03 or 3VW9011-0AP13.<br>Replacement part for Z option T30. | For fixed-mounted breakers | IP3x | | **3VW9011-0AP01** | | 1 | 1 unit | 1CB |
| | For withdrawable breakers | IP3x | | **3VW9011-0AP02** | | 1 | 1 unit | 1CB |



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

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| | | | | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| **Protective cover IP54** | | | | | | | | | |
| | Description | Type | Version | | | | | | |
|  | Protective cover / hood IP54 lockable for fixed-mounted breakers and withdrawable breakers, for implementing degrees of protection IP4x and IP54 when installing in switchboard door.<br>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 wall of the fixed-mounted breaker** | | | | | | | | | |
| | Description | Type | Version | | | | | | |
|  | Mounting support standard (circuit breaker feet) for fixing the circuit breaker on the floor. | For fixed-mounted 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 wall.[1] (= option S56) | For fixed-mounted breakers only | Floor fixation | | **3VW9011-0BB52** | | 1 | 1 unit | 1CB |
| | Side wall extension kit; modification for mechanical transmission of switch position on circuit breaker side wall.[1] (= option S57) | For fixed-mounted breakers only | Rear fixation on mounting plate | | **3VW9011-0BB53** | | 1 | 1 unit | 1CB |

[1] Required for:
- Fixation of external auxiliary switch AUX 15 CO (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 to 3WL/3VA (for 3VW9011-0BB21)

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## Accessories and spare parts

### Locking devices (for fixed-mounted and withdrawable versions)



| Description | Type | Version | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| Locking devices in OFF position to prevent unauthorized activation, in the operator panel (safe OFF). The disconnector unit fulfills the conditions for a supply disconnecting (isolating) device acc. to EN 60204-1. | Cylinder lock (replacement for S08) | Ronis | | **3VW9011-0BA33** | | 1 | 1 unit | 1CB |
| | Padlock 4 mm (replacement for S22) | Plastic for no more than 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 |
| | Padlock 8 mm (replacement for S07) | Metal for no more than 2 locks | | **3VW9011-0BA44** | | 1 | 1 unit | 1CB |
| Padlockable protective cover ON and/or OFF on the operator panel | Padlock 4 mm (replacement for S42) | Plastic for no more than 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 on guide frame of withdrawable circuit breaker



| Description | Type | Version | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| Locking device to prevent movement of the withdrawable circuit breaker. | Cylinder lock (replacement for R78) | Ronis | | **3VW9011-0BA80** | | 1 | 1 unit | 1CB |
| | 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 circuit breaker in disconnected position only. Only possible as a supplement in conjunction with R78 (3VW9011-0BA80) and/or R65 (3VW9011-0BA87). | Locking mechanism (replacement for R79) | | | **3VW9011-0BA84** | | 1 | 1 unit | 1CB |

### Locking mechanism to prevent opening of the control cabinet door in ON position



| Description | Type | Version | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| Locking mechanism to prevent opening of the control cabinet door in ON position. It additionally prevents the circuit breaker from being closed when the control cabinet door is open. | Fixed-mounted in side wall / or floor fixation[1)] | Direct fixed interlocking | | **3VW9011-0BB10** | | 1 | 1 unit | 1CB |
| | Withdrawable | Direct fixed interlocking | | **3VW9011-0BB14** | | 1 | 1 unit | 1CB |
| | Fixed-mounted in side wall / or floor fixation[1)] | Interlocking with Bowden cable | | **3VW9011-0BB16** | | 1 | 1 unit | 1CB |
| | Withdrawable | Interlocking with Bowden cable | | **3VW9011-0BB18** | | 1 | 1 unit | 1CB |

### Mechanical interlocking with Bowden cable



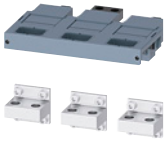
| Description | Version | Number of poles / quantity | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| Mechanical interlocking to 3WL / 3VA (including interlocking module with Bowden cable 2 m; one required for each circuit breaker) | Fixed-mounted[1)] | Rear panel or floor fixation | | **3VW9011-0BB21** | | 1 | 1 unit | 1CB |
| | Withdrawable | Fixation on guide frame | | **3VW9011-0BB22** | | 1 | 1 unit | 1CB |
| **Bowden cable** (one required for each circuit breaker) | | | | | | | | |
| Versions | | | | | | | | |
| 1000 mm | | | | **3VW9011-0BB23** | | 1 | 1 unit | 1CB |
| 2000 mm | | | | **3WL9111-0BB45-0AA0** | | 1 | 1 unit | 1CA |
| 3000 mm | | | | **3WL9111-0BB46-0AA0** | | 1 | 1 unit | 1CA |



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| | | | | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|---|
| **Terminals for main circuit connection[1] (to be ordered separately for top and bottom)** | | | | | | | | | |
| | Description | Version | Number of poles / quantity | | | | | | |
| | **Front connection methods, fixed-mounted breakers** | | | | | | | | |
|  | Set of front terminals for main circuit connection | Fixed | 3-pole / 3 units | | **3VW9011-0AL01** | | 1 | 1 unit | 1CB |
| | | | 4-pole / 4 units | | **3VW9011-0AL02** | | 1 | 1 unit | 1CB |
| | **Front-accessible, extended connection methods** | | | | | | | | |
|  | Set of extended front terminals for main circuit connection for mounting on front terminals for main circuit connection (fixed-mounted)[2] | Fixed | 3-pole / 3 units | | **3VW9011-0AL77** | | 1 | 1 unit | 1CB |
| | | | 4-pole / 4 units | | **3VW9011-0AL78** | | 1 | 1 unit | 1CB |
|  | Set of front-accessible terminals for mounting on flange of guide frame (withdrawable) | Withdrawable | 3-pole / 3 units | | **3VW9011-0AN01** | | 1 | 1 unit | 1CB |
| | | | 4-pole / 4 units | | **3VW9011-0AN02** | | 1 | 1 unit | 1CB |
| | **Rear connection methods** | | | | | | | | |
|  | Set of rear terminals for main circuit connection[4]; rotatable for horizontal / vertical connection | Fixed | 3-pole / 3 units | | **3VW9011-0AL32** | | 1 | 1 unit | 1CB |
| | | | 4-pole / 4 units | | **3VW9011-0AL33** | | 1 | 1 unit | 1CB |
| | | Withdrawable | 3-pole / 3 units | | **3VW9011-0AN32** | | 1 | 1 unit | 1CB |
| | | | 4-pole / 4 units | | **3VW9011-0AN33** | | 1 | 1 unit | 1CB |
| | **Connection method for Cu/Al cable connection** | | | | | | | | |
|  | Set of circular conductor terminals 4 x 240 mm² for front cable connection (fixed-mounted)[5] [6] Mounting on front terminals for main circuit connection | Fixed | 3-pole / 3 units | | **3VW9011-0AL71** | | 1 | 1 unit | 1CB |
| | | | 4-pole / 4 units | | **3VW9011-0AL72** | | 1 | 1 unit | 1CB |
|  | Set of circular conductor connection pieces 4 x 240 mm² for cable lugs, rear cable connection (withdrawable breakers)[5] (Mounting on rear vertical terminals for main circuit connection 3VW9011-0AN32/33) | Withdrawable | 3-pole / 3 units | | **3VW9011-0AN71** | | 1 | 1 unit | 1CB |
| | | | 4-pole / 4 units | | **3VW9011-0AN72** | | 1 | 1 unit | 1CB |
| | **Front-accessible, broadened connection methods** | | | | | | | | |
|  | Set of front broadened terminals for main circuit connection (fixed-mounted)[3] for mounting directly on front terminals for main circuit connection | Fixed-mounted, top | 3-pole / 3 units | | **3VW9011-0AL73** | | 1 | 1 unit | 1CB |
| | | Fixed-mounted, bottom | 3-pole / 3 units | | **3VW9011-0AL75** | | 1 | 1 unit | 1CB |
| | | Fixed | 4-pole / 4 units | | **3VW9011-0AL74** | | 1 | 1 unit | 1CB |
|  | Set of front-accessible, broadened terminals for main circuit connection (withdrawable) Mounting on front-accessible terminals for main circuit connection (3VW9011-0AN01/02) | Withdrawable | 3-pole / 3 units | | **3VW9011-0AN73** | | 1 | 1 unit | 1CB |
| | | | 4-pole / 4 units | | **3VW9011-0AN74** | | 1 | 1 unit | 1CB |
| | **Rear broadened connection methods, for withdrawable breakers** | | | | | | | | |
|  | Mounting on rear horizontal terminals for main circuit connection | Withdrawable | 3-pole / 3 units | | **3VW9011-0AN75** | | 1 | 1 unit | 1CB |
| | | | 4-pole / 4 units | | **3VW9011-0AN76** | | 1 | 1 unit | 1CB |

[1] Acc. to IEC 60947-2 for 3WL10 up to 1250 A, for 3VA27 up to 1600 A (depending on application conditions)
[2] Including: Insulation plate and standard phase barriers (H = 100 mm) (3VW9723-0WA00 / 3VW9723-0WA10)
[3] Including: Insulation plate and extended phase barriers (H = 200 mm) (3VW9723-0WA01 / 3VW9723-0WA11)
[4] Including: Standard terminal cover for fixed-mounted circuit breakers (3VW9723-0WD30 / 3VW9723-0WD40)
[5] Including: Insulation plate and high, extended terminal cover (3VW9723-0WF30 / 3VW9723-0WF40)
[6] Currently only available in breaking capacity classes "M" and "H"; applies for 3VA27 molded case circuit breaker. No restriction with 3WL10.

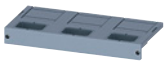
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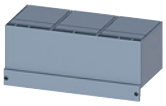




## Accessories and spare parts

### Terminal covers for fixed-mounted circuit breakers[1)]


3VW9723-0WD30


3VW9723-0WF30

| Description | Version | Number of poles / quantity | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| Finger-proof terminal cover for front terminals for main circuit connection for fixed-mounted breakers | For fixed-mounted version, standard | 3-pole / 2 units | | **3VW9723-0WD30** | | 1 | 1 unit | 1CB |
| | | 4-pole / 2 units | | **3VW9724-0WD40** | | 1 | 1 unit | 1CB |
| | For fixed-mounted version, extended | 3-pole / 2 units | | **3VW9723-0WF30** | | 1 | 1 unit | 1CB |
| | | 4-pole / 2 units | | **3VW9724-0WF40** | | 1 | 1 unit | 1CB |

### Phase barriers for fixed-mounted breakers[1)]



| Description | Version | Number of poles / quantity | SD d | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS | PG |
|---|---|---|---|---|---|---|---|---|
| Set of phase barriers for fixed-mounted breakers<br>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 |

[1)] Necessary isolation measures are always supplied with the corresponding connections and do not need to be ordered separately.



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- for standalone software products and software products that are part of another product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or Registered Office in Germany"[1)] and
- for other supplies and services, the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"[1)].
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[1)] You can download the text of the Siemens AG terms and conditions of trade at www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

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