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**For further technical product information:**

Siemens Industry Online Support:
www.siemens.com/lowvoltage/product-support

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

**For further information on 3VL according to UL,**
see Catalog LV 16




NEW

Direct reference to the products in the Industry Mall from the selection and ordering data tables:

Article No.
www.siemens.com/product?Article No.
3VA2025-5HL36-0AA0

Paper catalog:
To get more product information enter the Web address plus Article No.

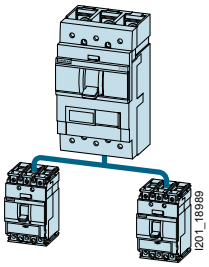
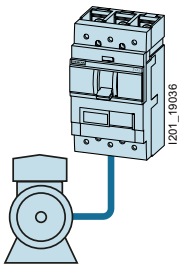
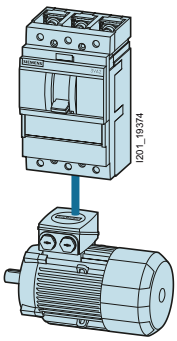
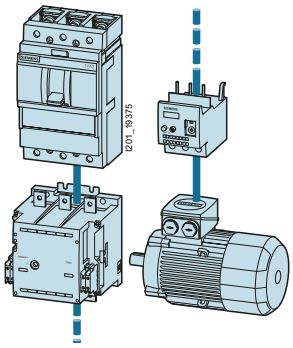
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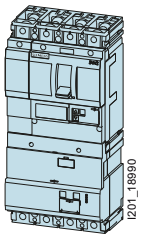
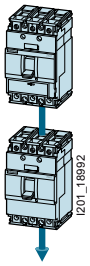
## Overview

| Application | Page | 3VA1 | 3VA2 | Description | Standards |
|---|---|---|---|---|---|
| **Line protection** | | | | | |
|  | 2/16 ... 2/37<br>2/42 ... 2/65 | ✓ | ✓ | The trip units for line protection are designed to provide overload and short-circuit protection for:<br>• Cables<br>• Lines<br>• Non motorized loads | IEC/EN 60947-1,<br>IEC/EN 60947-2 |
| **Generator protection** | | | | | |
|  | 2/48 ... 2/53<br>2/60 ... 2/65 | -- | ✓ | The setting values of the trip units are matched to protecting generators. | IEC/EN 60947-1,<br>IEC/EN 60947-2 |
| **Motor protection** | | | | | |
|  | 2/66 ... 2/67 | -- | ✓ | The overload and short-circuit releases are designed for optimal protection and direct starting of three-phase AC squirrel-cage motors. The molded case circuit breakers for motor protection have phase-failure sensitivity and a thermal image that protects the motor against overheating. The adjustable time lag class enables users to adjust the overload release to the startup conditions of the motor to be protected.<br>Are you IE3 ready? | IEC / EN 60947-1,<br>IEC / EN 60947-2,<br>IEC / EN 60947-4-1<br>IE3 ready |
| **Protection for starter combinations (starter protection)** | | | | | |
|  | 2/38 ... 2/39<br>2/66 ... 2/67 | ✓ | ✓ | Starter combinations consist of:<br>Molded case circuit breaker + contactor + overload relay.<br>The molded case circuit breaker handles short-circuit protection and the isolating function. The task of the contactor is the operational switching of the feeder. The overload relay handles overload protection that can be specially matched to the motor. The molded case circuit breaker for the starter combination is therefore equipped with an adjustable and instantaneous short-circuit release.<br>Are you IE3 ready? | IEC / EN 60947-1,<br>IEC / EN 60947-2,<br>IEC / EN 60947-4-1<br>IE3 ready |

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| Application | Page | 3VA1 | 3VA2 | Description | Standards |
|---|---|---|---|---|---|
| **Residual current protection** | | | | | |
|  | 2/101 ... 2/103 | ✓ | ✓ | Residual current protective devices afford fault protection (formerly referred to as: protection in case of indirect contact) and supplementary protection (formerly referred to as: Protection in case of direct contact) in low-voltage systems in the event of the basic insulation failing or live parts being touched. Their task is to prevent or reduce injury to personnel or livestock, or damage to property. | IEC / EN 60947-2 (Annexes B, M) |
| **Switch disconnectors** | | | | | |
|  | 2/40 | ✓ | -- | Switch disconnectors are deployed:<br>• As main disconnecting means<br>• For on/off switching<br>• For disconnection of loads<br>• As switch disconnectors without overload and short-circuit protection<br><br>The switch disconnectors correspond to IEC / EN 60947-3. | IEC / EN 60947-1, IEC / EN 60947-3 |

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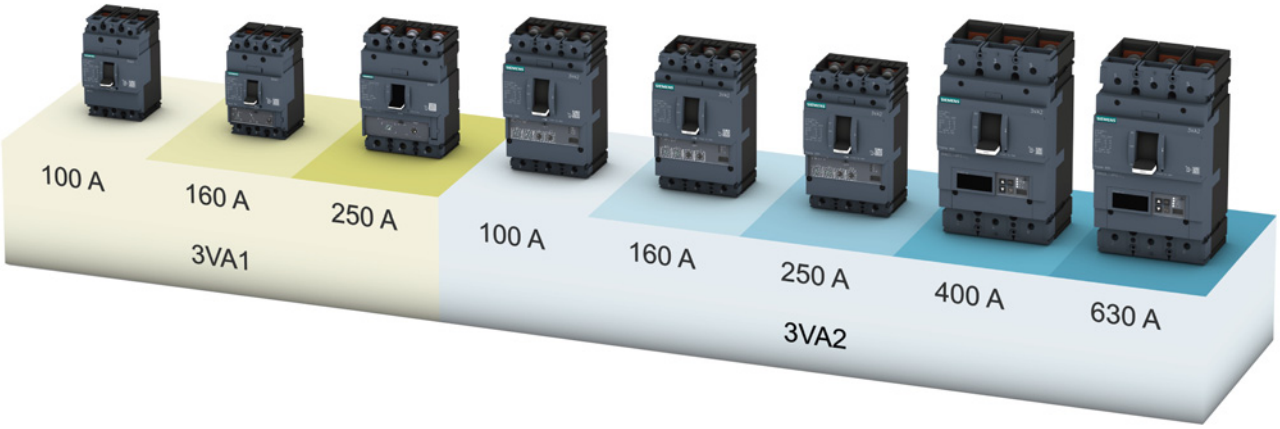
### *Sizes*

The integrated 3VA portfolio consists of two different series of molded case circuit breakers in eight different rated operational current versions (sizes).

The new 3VA molded case circuit breakers set new standards in flexibility and the variety of modular accessories available. Standardized accessories suitable for use with several sizes of circuit breaker from all the 3VA ranges help to cut costs and save time.

The new 3VA1 molded case circuit breakers are available in 1 to 4-pole versions (3VA1 160 A) or in 3 and 4-pole versions (3VA1 100 A and 250 A). The new 3VA2 molded case circuit breakers are available in 3 and 4-pole versions.

The circuit breakers are available with rated operational currents ranging from 16 A to 630 A and rated voltages up to 690 V, depending on the series and size.




### *Integrated system*

When it comes to operation, functionality and installation, the new 3VA series of molded case circuit breakers is a fully integrated system. This principle is embodied in the basic units and in all internal and external accessories.

The benefits offered by the internal and external accessories available for the 3VA molded case circuit breakers are:

- Standardized methods of operation
- Standardized scope of functions
- Standardized installation procedures
- Standardized accessories from 100 A ... 630 A (e.g. auxiliary switches, auxiliary releases, etc.)

### *3VA1 molded case circuit breakers*

The new 3VA1 molded case circuit breakers reliably perform all the tasks required for line protection.

Features

The key features of the 3VA1 series are:

- Compact design
- Depending on size: 1-pole to 4-pole versions
- Depending on size: Breaking capacity of 16 kA ... 70 kA at 415 V, 3 or 4-pole breakers and 36 kA at 240 V, 1-pole breakers
- Fixed-mounted, plug-in version (depending on size)
- Thermal-magnetic trip units
- AC/DC applications
- No derating up to +50 °C
- Modular and easy-to-fit internal accessories with diverse functions
- Uniform accessories platform across all 3VA molded case circuit breakers

Compact dimensions

Thanks to a mounting depth of 70 mm and a cover size of 45 mm, the 3VA1 molded case circuit breakers of sizes 100 A, 160 A and 250 A are predestined for protecting cables and lines in the plant area, especially for the electrical installation area. For these applications, there is also a wide range of accessories available such as adapters for installation on standard mounting rails, as well as residual current devices (RCD310 (up to 160 A) and RCD510) that can be side-mounted.

Thermal-magnetic trip unit

A thermal-magnetic principle trip unit is the basic trip unit for providing overload and short-circuit protection. This has been developed for implementing economical, cost-efficient installations up to 250 A. It is suitable for use in three-phase networks, AC networks, 400 Hz applications, and with DC currents.

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***3VA2 molded case circuit breakers***

The new 3VA2 molded case circuit breakers reliably perform all the tasks required for line protection, generator protection, motor protection and protection of starter combinations.

This series is designed for applications with increased requirements:

- Increased breaking capacity
- Very good selective protection response
- Integrated metering function
- Connection to a communication system

Features

The most important features of the 3VA2 series are:

- Compact dimensions
- 3 and 4-pole versions
- Four breaking capacity classes from 55 kA … 150 kA
- Fixed-mounting, plug-in technology, draw-out technology
- Depending on size: Selective protection response in rated operational current interval 1 : 2.5
- Electronic Trip Units
- Retrofittable communication for ETU 5-series and 8-series
- Depending on the ETU: Integrated metering function
- AC applications
- No derating up to +50 °C
- Modular and easy-to-fit internal accessories with diverse functions
- Uniform accessories platform across all 3VA molded case circuit breakers

Compact dimensions with function expansions

In addition to its expanded functionality, the 3VA2 molded case circuit breaker also comes with compact dimensions for fixed mounting, as a plug-in version and a draw-out version.

A cover size of 70 mm for the door cutout and a complete selection of breaking capacity classes from 55 kA to 150 kA at 415 V AC provide the necessary flexibility for planning.

Despite its compact size, the circuit breaker offers the following benefits:

- Extremely high breaking capacity
- Extremely good selectivity
- Electronic trip units, versions with and without integrated metering function and optional communication interface

Selective contact system

With its contact system, the 3VA2 molded case circuit breaker is designed for fast selectivity tripping. The selective contact system ensures the following:

- Dynamic instantaneous short-circuit range
- High breaking capacity
- Selective protection response of the molded case circuit breakers in relation to each other
- Selective protection response of the molded case circuit breakers in relation to other protection devices such as downstream low-voltage fuses, etc.

Electronic Trip Units (ETUs)

The current sensor of the 3VA2 comprises an iron-cored transformer for the internal power supply and a Rogowski coil for precise current measurement. Each transformer can be optimized accordingly for its specific task. Thanks to the high accuracy of current measurement, the 3VA2 molded case circuit breaker is suitable for power/energy measurement. In addition, finer adjustment of ground fault current monitoring is possible.

The Electronic Trip Units (ETUs) provide the following protection functions:

- Overload protection L ("L" = Long-time delay)
- Short-time delayed short-circuit protection S ("S" = Short-time delay) for time-selective response in case of a short-circuit
- Instantaneous short-circuit protection I ("I" = Instantaneous)
- Protection of the neutral conductor N against overload and short-circuit ("N" = Neutral)
- Protection against residual currents to ground ("G" = Ground fault)
- ELISA:
  Improved selective grading of downstream LV HRC fuses and upstream molded case circuit breakers by means of a special form of current-time characteristic

Energy management and communication

The Electronic Trip Units (ETUs) provide the following energy management and communication functions:

- Metering functions
- Communication
- Flexible, local, digital inputs and outputs via the EFB300 external function box
- Software commissioning support with powerconfig
- Testing and archiving with the TD300 and TD500 test devices (with powerconfig)

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## General data









| | | | | | | |
|---|---|---|---|---|---|---|
| Type | | 3VA10 | 3VA11 | | | 3VA12 |
| Number of poles | | 3, 4 | 1 | 2[1] | 3, 4 | 3, 4 |
| **3VA1 molded case circuit breakers for line protection, standard applications** | | | | | | |
| **Electrical characteristics according to IEC 60947-2** | | | | | | |
| Size | | 100 A | 160 A | 160 A | 160 A | 250 A |
| Rated operational current $I_n$ at 50 °C ambient temperature | A | 16 … 100 | 16 … 160 | 16 … 160 | 16 … 160 | 160 … 250 |
| Rated operational voltage $U_e$ AC 50/60 Hz | V | 690 | 240 | 415 | 690 | 690 |
| Rated insulation voltage $U_i$ | V | 800 | 500 | 500 | 800 | 800 |
| Rated impulse withstand voltage $U_{imp}$ | kV | 8 | 8 | 8 | 8 | 8 |
| Use in IT networks | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Frequency | Hz | 0 ... 400 | 0 ... 400 | 0 ... 400 | 0 ... 400 | 0 ... 400 |

| Breaking capacity | | (B) | (N) | (S) | (N) | (S) | (N) | (S) | (N) | (S) | (M) | (H) | (S) | (M) | (H) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rated ultimate short-circuit breaking capacity $I_{cu}$** rms value, according to IEC 60947-2 | | | | | | | | | | | | | | | |
| 220 - 240 V AC / 50/60 Hz | kA | 25 | 36 | 55 | 25 | 36 | 36 | 55 | 36 | 55 | 85 | 100 | 55 | 85 | 100 |
| 380 - 415 V AC / 50/60 Hz | kA | 16 | 25 | 36 | 5 | 6 | 25 | 36 | 25 | 36 | 55 | 70 | 36 | 55 | 70 |
| 440 V AC / 50/60 Hz | | 8 | 16 | 25 | -- | -- | -- | -- | 16 | 25 | 36 | 55[2] | 25 | 36 | 36 |
| 500 V AC / 50/60 Hz | | On req. | On req. | On req. | -- | -- | -- | -- | On req. | On req. | On req. | On req. | 10 | 15 | 15 |
| 690 V AC / 50/60 Hz | kA | 5 | 5 | 7 | -- | -- | -- | -- | 7 | 7 | 10 | 10 | 7 | 10 | 10 |
| 125 V DC (1 switching pole) | | -- | -- | -- | 16 | 25 | 16 | 25 | -- | -- | -- | -- | -- | -- | -- |
| 250 V DC (2 switching poles) | | 25 | 36 | 55 | -- | -- | 36 | 55 | 36 | 55 | 85 | 100 | 55 | 85 | 100 |
| 500 V DC (3 switching poles) | kA | 25 | 36 | 55 | -- | -- | -- | -- | 36 | 55 | 85 | 100 | 55 | 85 | 100 |
| 600 V DC (4 switching poles) | kA | 8 | 16 | 25 | -- | -- | -- | -- | 16 | 25 | 36 | 55 | 25 | 36 | 55 |
| **Rated operational short-circuit breaking capacity $I_{cs}$** rms value, according to IEC 60947-2 | | | | | | | | | | | | | | | |
| 220 - 240 V AC / 50/60 Hz | kA | 25 | 36 | 55 | 25 | 36 | 36 | 55 | 36 | 55 | 85 | 100 | 55 | 85 | 100 |
| 380 - 415 V AC / 50/60 Hz | kA | 16 | 25 | 36 | 5 | 6 | 25 | 36 | 25 | 36 | 55 | 70 | 36 | 55 | 70 |
| 440 V AC / 50/60 Hz | | 8 | 16 | 25 | -- | -- | -- | -- | 16 | 25 | 36 | 40[2] | 25 | 36 | 36 |
| 500 V AC / 50/60 Hz | | On req. | On req. | On req. | -- | -- | -- | -- | On req. | On req. | On req. | On req. | 10 | 10 | 10 |
| 690 V AC / 50/60 Hz | kA | 5 | 5 | 5 | -- | -- | -- | -- | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 125 V DC (1 switching pole) | | -- | -- | -- | 16 | 25 | 16 | 25 | -- | -- | -- | -- | -- | -- | -- |
| 250 V DC (2 switching poles) | | 25 | 36 | 55 | -- | -- | 36 | 55 | 36 | 55 | 85 | 100 | 55 | 85 | 100 |
| 500 V DC (3 switching poles) | kA | 25 | 36 | 55 | -- | -- | -- | -- | 36 | 55 | 85 | 100 | 55 | 85 | 100 |
| 600 V DC (4 switching poles) | kA | 8 | 16 | 25 | -- | -- | -- | -- | 16 | 25 | 36 | 55 | 25 | 36 | 55 |

✓ Available -- Not available

1) A side plate must be used if no finger safety can be warranted on the right due to the installation situation (see page 2/92).

2) $I_n$ 125 A, 160 A: $I_{cu}$ / $I_{cs}$ = 36 kA / 36 kA

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| | 3VA20 | 3VA21 | 3VA22 | 3VA23 | 3VA24 |
|---|---|---|---|---|---|
| | 3, 4 | 3, 4 | 3, 4 | 3, 4 | 3, 4 |
| **3VA2 molded case circuit breakers for line protection, selectivity applications** | | | | | |
| | 100 A | 160 A | 250 A | 400 A | 630 A |
| | 25 ... 100 | 25 ... 160 | 160 ... 250 | 250 ... 400 | 400 ... 630 |
| | 690 | 690 | 690 | 690 | 690 |
| | 800 | 800 | 800 | 800 | 800 |
| | 8 | 8 | 8 | 8 | 8 |
| | ✓ | ✓ | ✓ | ✓ | ✓ |
| | 50 … 60 | 50 … 60 | 50 … 60 | 50 … 60 | 50 … 60 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (M) | (H) | (C) | (L) | (M) | (H) | (C) | (L) | (M) | (H) | (C) | (L) | (M) | (H) | (C) | (L) | (M) | (H) | (C) | (L) |
| | 85 | 110 | 150 | 200 | 85 | 110 | 150 | 200 | 85 | 110 | 150 | 200 | 85 | 110 | 150 | On req. | 85 | 110 | 150 | On req. |
| | 55 | 85 | 110 | 150 | 55 | 85 | 110 | 150 | 55 | 85 | 110 | 150 | 55 | 85 | 110 | On req. | 55 | 85 | 110 | On req. |
| | 55 | 85 | 110 | 150 | 55 | 85 | 110 | 150 | 55 | 85 | 110 | 150 | 55 | 85 | 110 | On req. | 55 | 85 | 110 | On req. |
| | 36 | 55 | 85 | 100 | 36 | 55 | 85 | 100 | 36 | 55 | 85 | 100 | 36 | 55 | 85 | On req. | 36 | 55 | 85 | On req. |
| | 2 | 2 | 2 | 24 | 2.5 | 2.5 | 2.5 | 24 | 3 | 3 | 3 | 24 | 5 | 5 | 5 | On req. | 6 | 6 | 6 | On req. |
| | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 85 | 110 | 150 | 200 | 85 | 110 | 150 | 200 | 85 | 110 | 150 | 200 | 85 | 110 | 150 | On req. | 85 | 110 | 150 | On req. |
| | 55 | 85 | 110 | 150 | 55 | 85 | 110 | 150 | 55 | 85 | 110 | 150 | 55 | 85 | 110 | On req. | 55 | 85 | 110 | On req. |
| | 55 | 85 | 110 | 150 | 55 | 85 | 110 | 150 | 55 | 85 | 110 | 150 | 55 | 85 | 110 | On req. | 55 | 85 | 110 | On req. |
| | 36 | 55 | 85 | 100 | 36 | 55 | 85 | 100 | 36 | 55 | 85 | 100 | 36 | 55 | 85 | On req. | 36 | 55 | 85 | On req. |
| | 2 | 2 | 2 | 18 | 2.5 | 2.5 | 2.5 | 18 | 3 | 3 | 3 | 18 | 5 | 5 | 5 | On req. | 6 | 6 | 6 | On req. |
| | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

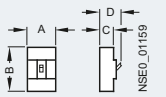
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## General data





| Type | | | | 3VA10 | 3VA11 | 3VA11 | 3VA11 | 3VA12 |
|---|---|---|---|---|---|---|---|---|
| **3VA1 molded case circuit breakers for line protection, standard applications** | | | | | | | | |
| **Service life (make-break operations)** | | | | | | | | |
| Mechanical | | | | 15000 | 15000 | 15000 | 15000 | 15000 |
| Electrical | | | 380 ... 415 V | 8000 | 8000 | 8000 | 8000 | 8000 |
| Trip units | FTFM | TM210 | | ✓ | ✓ | ✓ | ✓ | -- |
| | ATFM | TM220 | | -- | -- | -- | ✓ | -- |
| | ATAM | TM240 | | -- | -- | -- | ✓ | ✓ |
| | LI | ETU320 | | -- | -- | -- | -- | -- |
| | LIG | ETU330 | | -- | -- | -- | -- | -- |
| | ELISA LI | ETU340 | | -- | -- | -- | -- | -- |
| | LSI | ETU350 | | -- | -- | -- | -- | -- |
| | LSI | ETU550/ETU850 | | -- | -- | -- | -- | -- |
| | LSIG | ETU560/ETU860 | | -- | -- | -- | -- | -- |
| **3VA1 molded case circuit breakers for protecting starter combinations (standards and specifications IEC 60947-4-1 acc. to AC-1)** | | | | | | | | |
| Rated operational current $I_n$ at 50 °C ambient temperature | | | A | -- | -- | -- | 32 … 125 | 160, 200 |
| **Service life (make-break operations)** | | | | | | | | |
| Mechanical | | | | 15000 | 15000 | 15000 | 15000 | 15000 |
| Electrical | | | 380 ... 415 V | 8000 | 8000 | 8000 | 8000 | 8000 |
| Trip units | AM | TM120M | | -- | -- | -- | ✓ | ✓ |
| | I | ETU310M | | -- | -- | -- | -- | -- |
| | LSI | ETU350M | | -- | -- | -- | -- | -- |
| | LSIG | ETU860M | | -- | -- | -- | -- | -- |
| **Switch disconnectors** | | | | | | | | |
| **Electrical characteristics according to IEC 60947-3** | | | | | | | | |
| Number of poles | | | | -- | -- | -- | 3, 4 | 3, 4 |
| Rated uninterrupted current $I_u$ at 50 °C ambient temperature | | | A | -- | -- | -- | 63 … 160 | 250 |
| Rated operational voltage $U_e$ AC 50/60 Hz | | | V | -- | -- | -- | 690 | 690 |
| Rated operational voltage $U_e$ DC | | | V | -- | -- | -- | 500 (3p)/600 (4p) | 500 (3p)/600 (4p) |
| Rated short-circuit making capacity $I_{cn}$ with upstream circuit breaker | | | kA | -- | -- | -- | 70 kA at 415 V | 70 kA at 415 V |
| Permissible rated short-time current $I_{cw}$ | | | ±1s kA | -- | -- | -- | 2 | On request |
| **Dimensions** | | | | | | | | |
|  | A<br>B<br>C<br>D | | mm<br>mm<br>mm<br>mm | 76.2 (3p)/101.6 (4p)<br>130<br>70<br>88 | 25.4<br>130<br>70<br>88 | 50.8<br>130<br>70<br>88 | 76.2 (3p)/101.6 (4p)<br>130<br>70<br>88 | 105 (3p), 140 (4p)<br>158<br>70<br>88 |
| Weight 1-pole Box terminal | | | kg | -- | 0.39 | -- | -- | -- |
| 1-pole Lug terminal | | | kg | -- | 0.35 | -- | -- | -- |
| 2-pole Box terminal | | | kg | -- | -- | 0.68 | -- | -- |
| 2-pole Lug terminal | | | kg | -- | -- | 0.60 | -- | -- |
| 3-pole Box terminal | | | kg | 1.02 | -- | -- | 1.02 | -- |
| 3-pole Lug terminal | | | kg | 0.90 | -- | -- | 0.90 | 1.8 |
| 4-pole Box terminal | | | kg | 1.31 | -- | -- | 1.31 | -- |
| 4-pole Lug terminal | | | kg | 1.15 | -- | -- | 1.15 | 2.3 |
| **General information** | | | | | | | | |
| Standards and specifications | | | | IEC 60947-2, -3, -4 | IEC 60947-2, -3, -4 | IEC 60947-2, -3, -4 | IEC 60947-2, -3, -4 | IEC 60947-2, -3, -4 |
| Utilization category according to IEC 60947-2 | | | | A | A | A | A | A |
| Power and infeed direction | | | | Top and bottom | Top and bottom | Top and bottom | Top and bottom | Top and bottom |
| Standard connection system | | | | Lug terminal<br>Box terminal | Lug terminal<br>Box terminal | Lug terminal<br>Box terminal | Lug terminal<br>Box terminal | Lug terminal<br>-- |
| Isolating features according to IEC 60947 | | | | ✓ | ✓ | ✓ | ✓ | ✓ |

✓ Available -- Not available

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| 3VA20 | 3VA21 | 3VA22 | 3VA23 | 3VA24 |
|---|---|---|---|---|
| **3VA2 molded case circuit breakers for line protection, selectivity applications** | | | | |
| | | | | |
| 20000 | 20000 | 20000 | 15000 | 15000 |
| 12000 | 12000 | 10000 | 6000 | 4000 |
| | | | | |
| -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- |
| ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ |
| **3VA2 molded case circuit breakers for protecting motors/starter combinations (standards and specifications 60947-4-1 acc. to AC-1)** | | | | |
| -- | 25 ... 100 | 160 ... 200 | 250 | 400 ... 500 |
| | | | | |
| 20000 | 20000 | 20000 | 15000 | 15000 |
| 12000 | 12000 | 10000 | 6000 | 4000 |
| | | | | |
| -- | -- | -- | -- | -- |
| ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ |
| ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | |
| | | | | |
| -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- |
| | | | | |
| -- | -- | -- | -- | -- |
| | | | | |
| 105 (3p)/140 (4p)<br>181<br>86<br>107 | 105 (3p)/140 (4p)<br>181<br>86<br>107 | 105 (3p)/140 (4p)<br>181<br>86<br>107 | 138 (3p)/184 (4p)<br>248<br>110<br>137 | 138 (3p)/184 (4p)<br>248<br>110<br>137 |
| -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- |
| 2.44 | 2.44 | -- | -- | -- |
| 2.29 | 2.29 | 2.41 | 4.3 | 4.3 |
| 3.14 | 3.14 | -- | -- | -- |
| 2.94 | 2.94 | 3.09 | 4.8 | 4.8 |
| | | | | |
| IEC 60947-2, -3, -4 | IEC 60947-2, -3, -4 | IEC 60947-2, -3, -4 | IEC 60947-2, -3, -4 | IEC 60947-2, -3, -4 |
| A | A | A | A | A/B[1)] |
| Top and bottom | Top and bottom | Top and bottom | Top and bottom | Top and bottom |
| Lug terminal<br>Box terminal | Lug terminal<br>Box terminal | Lug terminal | Lug terminal | Lug terminal |
| ✓ | ✓ | ✓ | ✓ | ✓ |

[1)] Utilization category B only for 400 A and 500 A and the trip units of the ETU5 and ETU8 series

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## General data

2

### *Molded case circuit breakers and accessories in the system*

The new 3VA molded case circuit breakers come with a large portfolio of internal and external accessories which can be installed flexibly in any size of circuit breaker (depending on the type of accessory).

The table below shows the molded case circuit breakers in or on which the accessories can be installed, and the sizes covered by the same accessory component:

| Accessories | Molded case circuit breakers | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 3VA1 | | | 3VA2 | | | | |
| | 100 | 160 | 250 | 100 | 160 | 250 | 400 | 630 |
| Auxiliary switches and alarm switches | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Auxiliary releases | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Connection technology | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Plug-in technology | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Draw-out technology | | | ■ | ■ | ■ | ■ | ■ | ■ |
| Front mounted rotary operator | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Door mounted rotary operator | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Side wall mounted rotary operators | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Motor operator MO310 (mounted on the side) | | ■ | | | | | | |
| Motor operator MO320 (mounted on the front) | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Locking and interlocking | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Residual current device (mounted on the side) | | ■ | ■ | | | | | |
| Residual current device (mounted underneath) | | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Communications interface | | | | ■ | ■ | ■ | ■ | ■ |
| EFB300 | | | | ■ | ■ | ■ | ■ | ■ |
| TD300 and TD500 | | | | ■ | ■ | ■ | ■ | ■ |
| Masking frame | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| DIN rail adapter | ■ | ■ | | | | | | |

### *Front terminals*

The portfolio of connection components for the molded case circuit breakers includes a large selection of front cable and busbar terminals.

Connection technology available from/installed at the factory

All 3VA molded case circuit breakers are available as standard with a lug terminal (clip-in nut and clamping screw) at the infeed and load ends.

For units up to size 160 A, a box terminal for direct cable connection can be optionally selected instead of the lug terminal. The box terminal is preassembled and installed at the factory.

The connection technology available from/installed at the factory can be selected in the 12th position of the article number of the molded case circuit breaker.

| Connection technology | Illustration | 3VA1 | | | 3VA2 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 100 | 160 | 250 | 100 | 160 | 250 | 400 | 630 |
| Lug terminal |  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Box terminal |  | ✓ | ✓ | -- | ✓ | ✓ | -- | -- | -- |

✓ Available

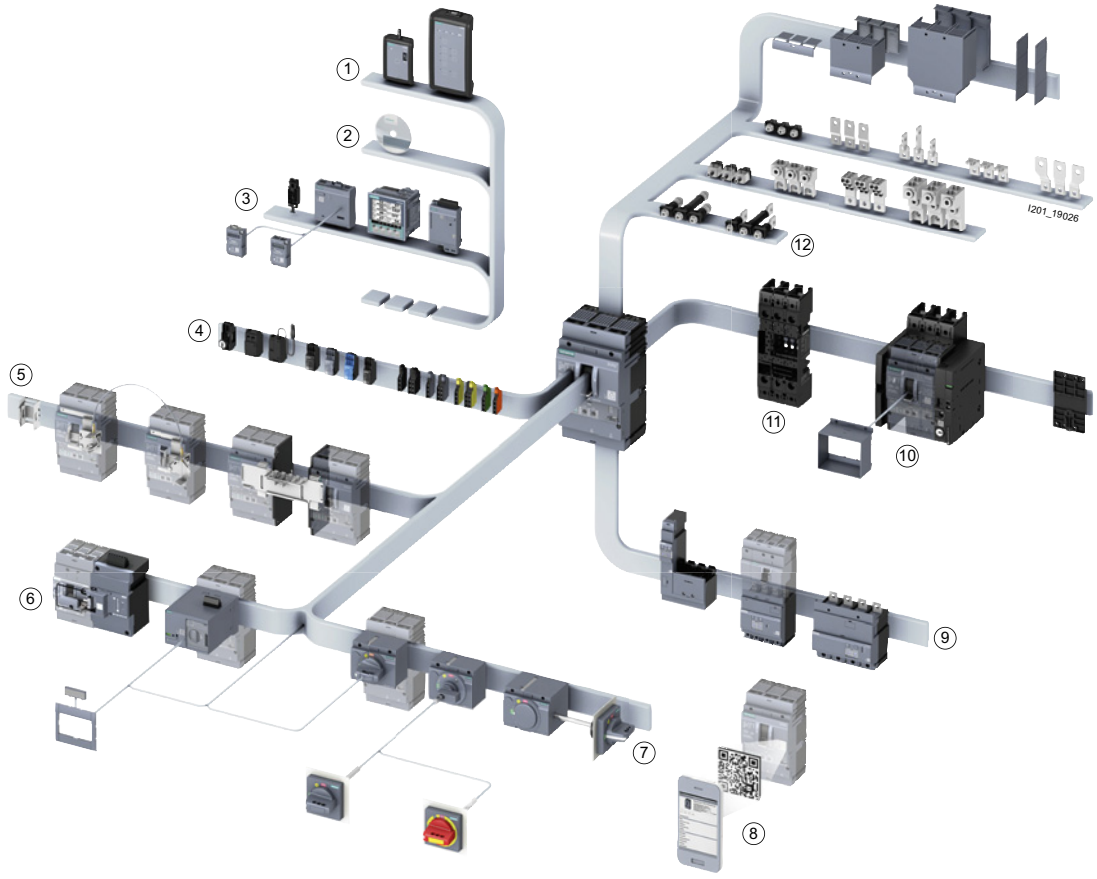
Insulated busbars and cables with cable lugs can be connected directly to the lug terminal. Furthermore, all connection bar extensions are assembled at the molded case circuit breaker using the lug terminal:

- Front connection bars extended (phase barriers included in scope of supply)
- Front connection bars broadened (phase barriers included in scope of supply)
- Front connection bars edgewise (phase barriers included in scope of supply)
- Lug terminal, right-angled (phase barriers included in scope of supply)

The implementation of insulation measures (phase barriers or terminal covers) is recommended. With some accessory components, insulation measures are essential (and these are included in the scope of supply of the relevant component).

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1 Test devices (pages 2/109)
2 powerconfig software (pages 2/109, chapter "Measuring Devices and Power Monitoring" and chapter "Software")
3 Communication (pages 2/105 to 2/109)
4 Internal accessories (pages 2/68 to 2/74)
5 Locking and interlocking (pages 2/110 to 2/113)
6 Motor operators (page 2/80)
7 Manual operators (pages 2/75 to 2/79)
8 Knowledge Manager (2/11)
9 Residual current devices (pages 2/101 to 2/103)
10 Withdrawable unit design (pages 2/96 to 2/100)
11 Plug-in design (pages 2/96 to 2/100)
12 Connection technology (pages 2/81 to 2/95)

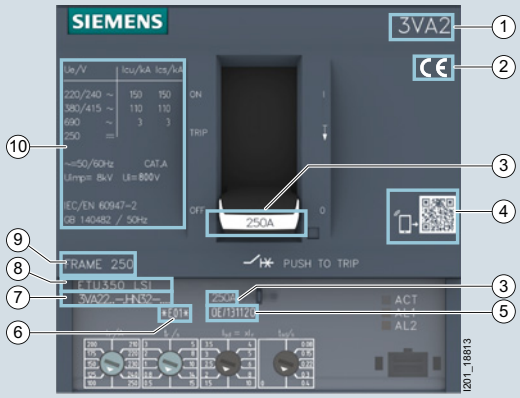
### *Knowledge Manager*

By reading out the QR code using a smartphone and the "Siemens Industry Online Support" app, it is possible to view key product information via the Internet at any time.

Siemens provides the app free of charge.

Technical information about installation, parameterization or maintenance can be called up directly from the system by QR code on a smartphone.






1 Circuit breaker designation
2 Approvals
3 Rated current
4 Knowledge Manager
5 Production date
6 Product version
7 Article number
8 ETU type
9 Size and breaking capacity class
10 Rating plate

Front: Inscription

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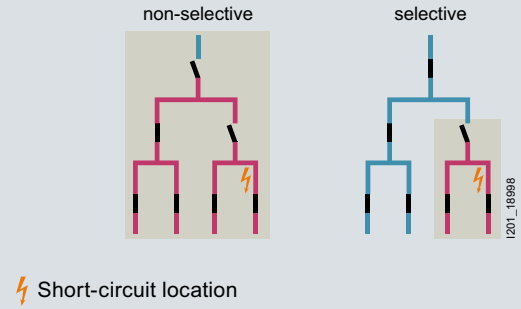




### *Selectivity*

Switching devices connected in series, e.g. molded case circuit breakers and fuses, work in a coordinated manner to ensure that switching devices are tripped successively. The closest, upstream switching device before the location of the short-circuit must trip. The other switching devices on the same current run do not trip. The purpose of selectivity is to minimize the effects of a fault in terms of its duration and the area affected by the fault.

Selectivity is achieved when the circuit breakers are matched to each other by means of selection, configuring and trip settings in such a way that, in the event of a fault, only the breaker closest to the location of the fault trips.




Selectivity with 3VA2 molded case circuit breakers

Series 3VA2 circuit breakers are designed to deliver excellent selective tripping combined with optimum current limiting and outstanding breaking capacity.

3VA2 molded case circuit breakers have been specifically designed to meet the following requirements:

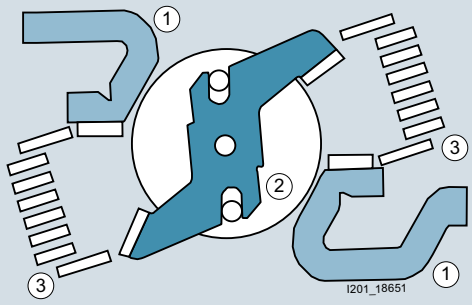
- System-wide, high selectivity with a rated operational current interval of 1 : 2.5 up to the miniature circuit breaker
- Selectivity in combination with high current limiting and high breaking capacity
- Cost-effective design / configuring of selective power distribution systems

You can find information on selectivity values for the 3VA2 molded case circuit breakers on the Internet under the link for the 3VA documentation (www.siemens.com/3VA-documentation).

### *Current limitation*

To achieve excellent current limiting, the 3VA molded case circuit breakers are equipped with a double-rotatory contact system that opens dynamically on its own above the specified disengaging currents on the principle of magnetic repulsion before the expected peak value of the short-circuit current is reached. These limits have been coordinated and optimized to suit the overall device characteristics. This substantially reduces the thermal and mechanical loading on the molded case circuit breaker.

The switching pole cassettes of the 3VA molded case circuit breakers are optimized for high breaking capacity, and their double-rotary contact system design enables extremely good current limiting thanks to the very fast build-up of peak arc voltage generated at both contacts in the event of a short-circuit. This results in significant limitation of the let-through energy $I^2t$ and the expected let-through current $I_{sc}$.




(1) Fixed contacts
(2) Rotating contact system
(3) Arc splitter chamber

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***Standards and guidelines***

The standards fulfilled by the 3VA molded case circuit breakers include:

- IEC/EN 60947-1
- IEC/EN 60947-2
- IEC / EN 60947-2, Annexes B, M
- IEC/EN 60947-3
- IEC / EN 60947-4-1

Certificates

You can find information on the available certification (CE, CCC, EHC) on the Internet (www.siemens.com/lowvoltage/certificates).

In the Entry List you can use the certificate type (general product approval, explosion protection, test certificates, shipbuilding, etc.) as a filter criterion.

Operating conditions

- Pollution degree:
  Operation of the 3VA1 and 3VA2 molded case circuit breakers is approved in accordance with IEC / EN 60947-1 and IEC / EN 60664-1 for pollution degree 3.
- Ambient temperature:
  - 3VA molded case circuit breakers are used at ambient temperatures from -25 °C to +70 °C. At temperatures above +50 °C there are reductions in the rated operational current (derating).
  - The permissible storage temperature in original Siemens packaging lies between -40 °C and +80 °C.

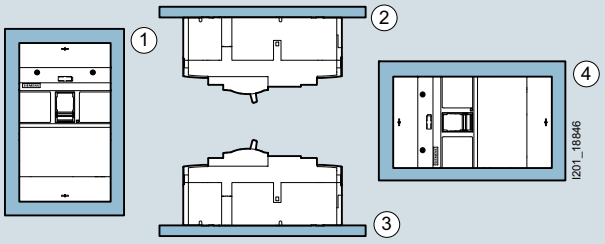
IE3 ready

As from January 2015, the energy-efficiency class IE3 will be mandatory, with a few exceptions only, for three-phase asynchronous motors. This will have an effect on motors, low-voltage power distribution and electrical installation technology, as well as industrial controls.

For use of 3VL molded case circuit breakers in conjunction with highly energy-efficient IE3 motors, please observe the information on dimensioning and configuring, see "Configuration Manual for SIRIUS Controls with IE3 Motors", at http://support.automation.siemens.com/WW/view/en/94770820.

Are you IE3 ready?

Permissible mounting positions




1 Vertical wall mounting
2 Ceiling mounting
3 Floor mounting
4 Laterally rotated wall mounting

Positions in which the 3VA molded case circuit breakers are allowed to be installed

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## General data

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### *Protection system*

Description of functions

| | Thermal-magnetic TM 2-series | Electronic ETU 3-series | Electronic with display ETU 5-series | Electronic with display and metering function – ETU 8-series |
|---|---|---|---|---|
| **Protection** | | | | |
| Trip units |   I201_19004 |   I201_18828 |   I201_18480 |   I201_18482 |
| | Line protection: TM210, TM220, TM240<br>Starter protection: TM120M | Line protection: ETU320, ETU330, ETU340, ETU350<br>Starter protection: ETU310M<br>Motor protection: ETU350M | Line protection: ETU550, ETU560 | Line protection: ETU850, ETU860<br>Motor protection: ETU860M |
| **Integrated functions** | | | | |
| Parameterizing |   |  |   |   |
| | Setting and reading the parameters in A | Setting and reading the parameters in A and s | • Setting and reading the parameters via display and communication<br>• Fine setting of the parameters<br>• Reading the measured values | • Setting and reading the parameters via display and communication<br>• Fine setting of the parameters<br>• Reading the measured values |
| Status display | -- |   |   |   |
| | | Indicating the ETU status via LEDs | Indicating the ETU status via LEDs | Indicating the ETU status via LEDs |
| Interface | -- |  |  |  |
| | | Interface for test devices | Interface for test devices | Interface for test devices |
| Metering function | -- | -- | -- | Metering function integrated |
| **Optional expansions** | | | | |
| | -- | -- |  |  |
| | | | 24 V module for continuous power supply (also without primary current through the molded case circuit breaker) | 24 V module for continuous power supply (also without primary current through the molded case circuit breaker) |
| | -- |  |  |  |
| | | EFB300 external function box for connecting to the ETU | EFB300 external function box for connecting to the ETU | EFB300 external function box for connecting to the ETU |
| | -- | -- |  |  |
| | | | COM060 communication module | COM060 communication module |
| | -- | -- |  |  |
| | | | COM800/COM100 breaker data server<br>Interface to<br>• PROFIBUS<br>• PROFINET<br>• Modbus RTU<br>• Ethernet (Modbus TCP) | COM800/COM100 breaker data server<br>Interface to<br>• PROFIBUS<br>• PROFINET<br>• Modbus RTU<br>• Ethernet (Modbus TCP) |
| | -- | -- |  |  |
| | | | DSP800 external display for installing in the cubicle door | DSP800 external display for installing in the cubicle door |
| | -- |  |  |  |
| | | TD300/TD500 test device | TD300/TD500 test device | TD300/TD500 test device |

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Protection functions of the 3VA1 molded case circuit breakers with thermal-magnetic trip unit

| | TM120M AM | TM210 FTFM | TM220 ATFM | TM240 ATAM |
|---|---|---|---|---|
| **Protection** | | | | |
| Starter protection | ✓ | -- | -- | -- |
| Line protection | -- | ✓ | ✓ | ✓ |
| **Version available with** | | | | |
| 1-pole and 2-pole breakers | -- | ✓ | -- | -- |
| 3-pole breaker | ✓ | ✓ | ✓ | ✓ |
| 4-pole breaker | -- | ✓ | ✓ | ✓ |
| **Available protection parameters** | | | | |
| $I_r$ adjustable | -- | -- | ✓ | ✓ |
| $I_i$ adjustable | ✓ | -- | -- | ✓ |
| $I_r$ fixed | -- | ✓ | -- | -- |
| $I_i$ fixed | -- | ✓ | ✓ | -- |
| $I_N$ [1] | -- | ✓ | ✓ | ✓ |

1) 3VA10 only without N protection
3VA11 without, 50 % or 100 % N protection
50 % N protection from $I_n \geq 100$ A and only in size 160 A

Protection functions of the 3VA2 with electronic trip unit

| | ETU310M I | ETU320 LI | ETU330 LIG | ETU340 ELISA® | ETU350 LSI | ETU350M LSI | ETU550 LSI | ETU560 LSIG | ETU850 LSI | ETU860 LSIG | ETU860M LSIG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Protection** | | | | | | | | | | | |
| Starter protection | ✓ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Motor protection | -- | -- | -- | -- | -- | ✓ | -- | -- | -- | -- | ✓ |
| Line protection | -- | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | -- |
| Generator protection | -- | ✓ | ✓ | -- | ✓ | -- | ✓ | ✓ | ✓ | ✓ | -- |
| **Version available with** | | | | | | | | | | | |
| 3-pole without external neutral conductor transformer | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | -- | -- | -- | ✓ |
| 3-pole with external neutral conductor transformer | -- | -- | -- | -- | -- | -- | ✓ | ✓ | ✓ | ✓ | -- |
| 4-pole with protected neutral conductor | -- | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | -- |
| **Available protection parameters** | | | | | | | | | | | |
| Characteristic in L range | $I^2t$ | $I^2t$ | $I^2t$ | $I^4t$ | $I^2t$ | $I^2t$ | $I^2t$ | $I^2t$ | $I^2t$ | $I^2t$ | $I^2t$ |
| $I_r$ | -- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| $t_r$ at 6 x $I_r$ | -- | ✓ | ✓ | -- | ✓ | -- | ✓ | ✓ | ✓ | ✓ | -- |
| $t_c$ | -- | -- | -- | -- | -- | ✓ | -- | -- | -- | -- | ✓ |
| $t_p$ | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ✓ |
| Thermal image | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Thermal image can be switched on/off | -- | -- | -- | -- | -- | -- | ✓ | ✓ | ✓ | ✓ | -- |
| $I_{sd}$ | -- | -- | -- | -- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| $t_{sd}$ at 8 x $I_r$ | -- | -- | -- | -- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Characteristic in S range: $I^2t_{sd}$ | -- | -- | -- | -- | ✓ | -- | ✓ | ✓ | ✓ | ✓ | -- |
| Characteristic in S range: selectable $I^2t_{sd}$ / $t_{sd}$ | -- | -- | -- | -- | -- | -- | ✓ | ✓ | ✓ | ✓ | -- |
| $I_i$ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| $I_N$ [1] | -- | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | -- |
| $I_g$ | -- | -- | ✓ | -- | -- | -- | -- | ✓ | -- | ✓ | ✓ |
| $t_g$ at 2 x $I_g$ | -- | -- | ✓ | -- | -- | -- | -- | ✓ | -- | ✓ | ✓ |
| Characteristic in G range: $I^2t_g$ | -- | -- | ✓ | -- | -- | -- | -- | ✓ | -- | ✓ | ✓ |
| Characteristic in G range: selectable $I^2t_g$ / $t_g$ | -- | -- | ✓ | -- | -- | -- | -- | ✓ | -- | ✓ | ✓ |
| Ground-fault alarm function | -- | -- | -- | -- | -- | -- | -- | ✓ | -- | ✓ | ✓ |
| Blocking protection | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ✓ |
| ZSI in combination with an EFB external function box | -- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **Features and options** | | | | | | | | | | | |
| Setting by rotary switch | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | -- | -- | -- | -- |
| Setting by ETU display | -- | -- | -- | -- | -- | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| Data shown on ETU display | -- | -- | -- | -- | -- | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| Metering function | -- | -- | -- | -- | -- | -- | -- | -- | ✓ | ✓ | ✓ |
| Communication option | -- | -- | -- | -- | -- | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| Front interface | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

1) Available in a version with external current transformer for N conductor or 4-pole breaker

✓ Available -- Not available

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## Selection and ordering data

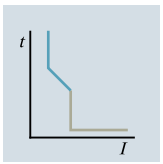
PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB



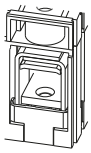
| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 25 kA at 240 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|
| | | A | A | A | | | |

**1-pole, fixed-mounted, 3VA11, up to 160 A**
**Thermal-magnetic trip unit**



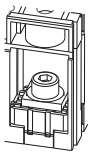




***Line protection, 1-pole, TM210 FTFM***
With fixed overload protection $I_r$ and fixed short-circuit protection $I_i$



**Connection with box terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 16 | 320 | 3VA1196-3ED16-0AA0 |
| | 20 | 20 | 320 | 3VA1120-3ED16-0AA0 |
| | 25 | 25 | 320 | 3VA1125-3ED16-0AA0 |
| | 32 | 32 | 320 | 3VA1132-3ED16-0AA0 |
| | 40 | 40 | 400 | 3VA1140-3ED16-0AA0 |
| | 50 | 50 | 500 | 3VA1150-3ED16-0AA0 |
| | 63 | 63 | 630 | 3VA1163-3ED16-0AA0 |
| | 80 | 80 | 800 | 3VA1180-3ED16-0AA0 |
| | 100 | 100 | 1000 | 3VA1110-3ED16-0AA0 |
| | 125 | 125 | 1250 | 3VA1112-3ED16-0AA0 |
| | 160 | 160 | 1600 | 3VA1116-3ED16-0AA0 |



**Connection with lug terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 16 | 320 | 3VA1196-3ED12-0AA0 |
| | 20 | 20 | 320 | 3VA1120-3ED12-0AA0 |
| | 25 | 25 | 320 | 3VA1125-3ED12-0AA0 |
| | 32 | 32 | 320 | 3VA1132-3ED12-0AA0 |
| | 40 | 40 | 400 | 3VA1140-3ED12-0AA0 |
| | 50 | 50 | 500 | 3VA1150-3ED12-0AA0 |
| | 63 | 63 | 630 | 3VA1163-3ED12-0AA0 |
| | 80 | 80 | 800 | 3VA1180-3ED12-0AA0 |
| | 100 | 100 | 1000 | 3VA1110-3ED12-0AA0 |
| | 125 | 125 | 1250 | 3VA1112-3ED12-0AA0 |
| | 160 | 160 | 1600 | 3VA1116-3ED12-0AA0 |



* You can order this quantity or a multiple thereof.

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2

PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ to 36 kA at 240 V, standard breaking capacity S (S) See "Overview", p. 2/6 and 2/7<br>Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|
| A | | | |

***Line protection, 1-pole, TM210 FTFM***
With fixed overload protection $I_r$ and fixed short-circuit protection $I_i$

| | Connection with box terminal |
|---|---|
| 16 | 3VA1196-4ED16-0AA0 |
| 20 | 3VA1120-4ED16-0AA0 |
| 25 | 3VA1125-4ED16-0AA0 |
| 32 | 3VA1132-4ED16-0AA0 |
| 40 | 3VA1140-4ED16-0AA0 |
| 50 | 3VA1150-4ED16-0AA0 |
| 63 | 3VA1163-4ED16-0AA0 |
| 80 | 3VA1180-4ED16-0AA0 |
| 100[1)] | 3VA1110-4ED16-0AA0 |
| 125[1)] | 3VA1112-4ED16-0AA0 |
| 160[1)] | 3VA1116-4ED16-0AA0 |

| | Connection with lug terminal |
|---|---|
| 16 | 3VA1196-4ED12-0AA0 |
| 20 | 3VA1120-4ED12-0AA0 |
| 25 | 3VA1125-4ED12-0AA0 |
| 32 | 3VA1132-4ED12-0AA0 |
| 40 | 3VA1140-4ED12-0AA0 |
| 50 | 3VA1150-4ED12-0AA0 |
| 63 | 3VA1163-4ED12-0AA0 |
| 80 | 3VA1180-4ED12-0AA0 |
| 100[1)] | 3VA1110-4ED12-0AA0 |
| 125[1)] | 3VA1112-4ED12-0AA0 |
| 160[1)] | 3VA1116-4ED12-0AA0 |

[1)] Start of delivery scheduled for 4th quarter 2015

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VA1 Molded Case Circuit Breakers up to 250 A, IEC NEW

### Line protection



PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB



| Connection technology | Type | Rated current $I_n$ A | Current setting of the inverse-time delayed overload protection "L" $I_r$ A | Operating current of the instanta-neous short-circuit protection "I" $I_i$ A | DT | $I_{cu}$ up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|

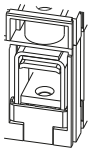
**2-pole, fixed-mounted, 3VA11, up to 160 A**
**Thermal-magnetic trip unit**




I201_19027

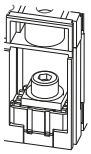



***Line protection, 2-pole, TM210 FTFM***
With fixed overload protection $I_r$ and fixed short-circuit protection $I_i$



**Connection with box terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 16 | 320 | 3VA1196-3ED26-0AA0 |
| | 20 | 20 | 320 | 3VA1120-3ED26-0AA0 |
| | 25 | 25 | 320 | 3VA1125-3ED26-0AA0 |
| | 32 | 32 | 320 | 3VA1132-3ED26-0AA0 |
| | 40 | 40 | 400 | 3VA1140-3ED26-0AA0 |
| | 50 | 50 | 500 | 3VA1150-3ED26-0AA0 |
| | 63 | 63 | 630 | 3VA1163-3ED26-0AA0 |
| | 80 | 80 | 800 | 3VA1180-3ED26-0AA0 |
| | 100 | 100 | 1000 | 3VA1110-3ED26-0AA0 |
| | 125 | 125 | 1250 | 3VA1112-3ED26-0AA0 |
| | 160 | 160 | 1600 | 3VA1116-3ED26-0AA0 |



**Connection with lug terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 16 | 320 | 3VA1196-3ED22-0AA0 |
| | 20 | 20 | 320 | 3VA1120-3ED22-0AA0 |
| | 25 | 25 | 320 | 3VA1125-3ED22-0AA0 |
| | 32 | 32 | 320 | 3VA1132-3ED22-0AA0 |
| | 40 | 40 | 400 | 3VA1140-3ED22-0AA0 |
| | 50 | 50 | 500 | 3VA1150-3ED22-0AA0 |
| | 63 | 63 | 630 | 3VA1163-3ED22-0AA0 |
| | 80 | 80 | 800 | 3VA1180-3ED22-0AA0 |
| | 100 | 100 | 1000 | 3VA1110-3ED22-0AA0 |
| | 125 | 125 | 1250 | 3VA1112-3ED22-0AA0 |
| | 160 | 160 | 1600 | 3VA1116-3ED22-0AA0 |



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ to 36 kA at 415 V, standard breaking capacity S (S) See "Overview", p. 2/6 and 2/7 |
|---|---|---|
| | | Article No. www.siemens.com/product?Article No. — Basic price per PU |
| A | | |

***Line protection, 2-pole, TM210 FTFM***
With fixed overload protection $I_r$ and fixed short-circuit protection $I_i$

| | Connection with box terminal |
|---|---|
| 16 | 3VA1196-4ED26-0AA0 |
| 20 | 3VA1120-4ED26-0AA0 |
| 25 | 3VA1125-4ED26-0AA0 |
| 32 | 3VA1132-4ED26-0AA0 |
| 40 | 3VA1140-4ED26-0AA0 |
| 50 | 3VA1150-4ED26-0AA0 |
| 63 | 3VA1163-4ED26-0AA0 |
| 80 | 3VA1180-4ED26-0AA0 |
| 100[1)] | 3VA1110-4ED26-0AA0 |
| 125[1)] | 3VA1112-4ED26-0AA0 |
| 160[1)] | 3VA1116-4ED26-0AA0 |

| | Connection with lug terminal |
|---|---|
| 16 | 3VA1196-4ED22-0AA0 |
| 20 | 3VA1120-4ED22-0AA0 |
| 25 | 3VA1125-4ED22-0AA0 |
| 32 | 3VA1132-4ED22-0AA0 |
| 40 | 3VA1140-4ED22-0AA0 |
| 50 | 3VA1150-4ED22-0AA0 |
| 63 | 3VA1163-4ED22-0AA0 |
| 80 | 3VA1180-4ED22-0AA0 |
| 100[1)] | 3VA1110-4ED22-0AA0 |
| 125[1)] | 3VA1112-4ED22-0AA0 |
| 160[1)] | 3VA1116-4ED22-0AA0 |

[1)] Start of delivery scheduled for 4th quarter 2015

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VA1 Molded Case Circuit Breakers up to 250 A, IEC NEW





PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

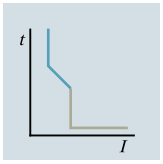


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instanta-neous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 16 kA at 415 V, very low breaking capacity B (B) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|
| | | A | A | A | | | |

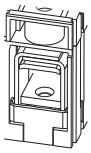
### 3-pole, fixed-mounted, 3VA10, up to 100 A
### Thermal-magnetic trip unit




I201_19027

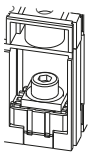



***Line protection, TM210 FTFM***
With fixed overload protection $I_r$ and fixed short-circuit protection $I_i$



**Connection with box terminal**

| | | | | |
|---|---|---|---|---|
| 3VA10 | 16 | 16 | 320 | 3VA1096-2ED36-0AA0 |
| | 20 | 20 | 320 | 3VA1020-2ED36-0AA0 |
| | 25 | 25 | 320 | 3VA1025-2ED36-0AA0 |
| | 32 | 32 | 320 | 3VA1032-2ED36-0AA0 |
| | 40 | 40 | 400 | 3VA1040-2ED36-0AA0 |
| | 50 | 50 | 500 | 3VA1050-2ED36-0AA0 |
| | 63 | 63 | 630 | 3VA1063-2ED36-0AA0 |
| | 80 | 80 | 800 | 3VA1080-2ED36-0AA0 |
| | 100 | 100 | 1000 | 3VA1010-2ED36-0AA0 |



**Connection with lug terminal**

| | | | | |
|---|---|---|---|---|
| 3VA10 | 16 | 16 | 320 | 3VA1096-2ED32-0AA0 |
| | 20 | 20 | 320 | 3VA1020-2ED32-0AA0 |
| | 25 | 25 | 320 | 3VA1025-2ED32-0AA0 |
| | 32 | 32 | 320 | 3VA1032-2ED32-0AA0 |
| | 40 | 40 | 400 | 3VA1040-2ED32-0AA0 |
| | 50 | 50 | 500 | 3VA1050-2ED32-0AA0 |
| | 63 | 63 | 630 | 3VA1063-2ED32-0AA0 |
| | 80 | 80 | 800 | 3VA1080-2ED32-0AA0 |
| | 100 | 100 | 1000 | 3VA1010-2ED32-0AA0 |



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 | | DT | $I_{cu}$ to 36 kA at 415 V, standard breaking capacity S (S) See "Overview", p. 2/6 and 2/7 | |
|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | Article No. www.siemens.com/product?Article No. | Basic price per PU |
| A | | | | | | |
| ***Line protection, TM210 FTFM*** With fixed overload protection $I_r$ and fixed short-circuit protection $I_i$ | | | | | | |
| | | **Connection with box terminal** | | | | |
| 16 | | **3VA1096-3ED36-0AA0** | | | **3VA1096-4ED36-0AA0** | |
| 20 | | **3VA1020-3ED36-0AA0** | | | **3VA1020-4ED36-0AA0** | |
| 25 | | **3VA1025-3ED36-0AA0** | | | **3VA1025-4ED36-0AA0** | |
| 32 | | **3VA1032-3ED36-0AA0** | | | **3VA1032-4ED36-0AA0** | |
| 40 | | **3VA1040-3ED36-0AA0** | | | **3VA1040-4ED36-0AA0** | |
| 50 | | **3VA1050-3ED36-0AA0** | | | **3VA1050-4ED36-0AA0** | |
| 63 | | **3VA1063-3ED36-0AA0** | | | **3VA1063-4ED36-0AA0** | |
| 80 | | **3VA1080-3ED36-0AA0** | | | **3VA1080-4ED36-0AA0** | |
| 100 | | **3VA1010-3ED36-0AA0** | | | **3VA1010-4ED36-0AA0** | |
| | | **Connection with lug terminal** | | | | |
| 16 | | **3VA1096-3ED32-0AA0** | | | **3VA1096-4ED32-0AA0** | |
| 20 | | **3VA1020-3ED32-0AA0** | | | **3VA1020-4ED32-0AA0** | |
| 25 | | **3VA1025-3ED32-0AA0** | | | **3VA1025-4ED32-0AA0** | |
| 32 | | **3VA1032-3ED32-0AA0** | | | **3VA1032-4ED32-0AA0** | |
| 40 | | **3VA1040-3ED32-0AA0** | | | **3VA1040-4ED32-0AA0** | |
| 50 | | **3VA1050-3ED32-0AA0** | | | **3VA1050-4ED32-0AA0** | |
| 63 | | **3VA1063-3ED32-0AA0** | | | **3VA1063-4ED32-0AA0** | |
| 80 | | **3VA1080-3ED32-0AA0** | | | **3VA1080-4ED32-0AA0** | |
| 100 | | **3VA1010-3ED32-0AA0** | | | **3VA1010-4ED32-0AA0** | |

*** You can order this quantity or a multiple thereof.**

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

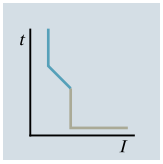


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instanta-neous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 | |
|---|---|---|---|---|---|---|---|
| | | A | A | A | | Article No. www.siemens.com/product?Article No. | Basic price per PU |

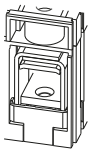
### 3-pole, fixed-mounted, 3VA11, up to 160 A
### Thermal-magnetic trip unit



I201_19027

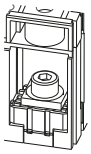



***Line protection, TM210 FTFM***
With fixed overload protection $I_r$ and fixed short-circuit protection $I_i$



**Connection with box terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 16 | 320 | 3VA1196-3ED36-0AA0 |
| | 20 | 20 | 320 | 3VA1120-3ED36-0AA0 |
| | 25 | 25 | 320 | 3VA1125-3ED36-0AA0 |
| | 32 | 32 | 320 | 3VA1132-3ED36-0AA0 |
| | 40 | 40 | 400 | 3VA1140-3ED36-0AA0 |
| | 50 | 50 | 500 | 3VA1150-3ED36-0AA0 |
| | 63 | 63 | 630 | 3VA1163-3ED36-0AA0 |
| | 80 | 80 | 800 | 3VA1180-3ED36-0AA0 |
| | 100 | 100 | 1000 | 3VA1110-3ED36-0AA0 |
| | 125 | 125 | 1250 | 3VA1112-3ED36-0AA0 |
| | 160 | 160 | 1600 | 3VA1116-3ED36-0AA0 |

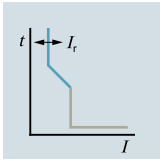


**Connection with lug terminal**

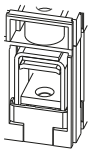
| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 16 | 320 | 3VA1196-3ED32-0AA0 |
| | 20 | 20 | 320 | 3VA1120-3ED32-0AA0 |
| | 25 | 25 | 320 | 3VA1125-3ED32-0AA0 |
| | 32 | 32 | 320 | 3VA1132-3ED32-0AA0 |
| | 40 | 40 | 400 | 3VA1140-3ED32-0AA0 |
| | 50 | 50 | 500 | 3VA1150-3ED32-0AA0 |
| | 63 | 63 | 630 | 3VA1163-3ED32-0AA0 |
| | 80 | 80 | 800 | 3VA1180-3ED32-0AA0 |
| | 100 | 100 | 1000 | 3VA1110-3ED32-0AA0 |
| | 125 | 125 | 1250 | 3VA1112-3ED32-0AA0 |
| | 160 | 160 | 1600 | 3VA1116-3ED32-0AA0 |



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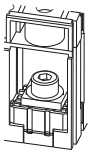



***Line protection, TM220 ATFM***
With adjustable overload protection $I_r$ and fixed short-circuit protection $I_i$



**Connection with box terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 11 ... 16 | 320 | 3VA1196-3EE36-0AA0 |
| | 20 | 14 ... 20 | 320 | 3VA1120-3EE36-0AA0 |
| | 25 | 18 ... 25 | 320 | 3VA1125-3EE36-0AA0 |
| | 32 | 22 ... 32 | 320 | 3VA1132-3EE36-0AA0 |
| | 40 | 28 ... 40 | 400 | 3VA1140-3EE36-0AA0 |
| | 50 | 35 ... 50 | 500 | 3VA1150-3EE36-0AA0 |
| | 63 | 44 ... 63 | 630 | 3VA1163-3EE36-0AA0 |
| | 80 | 56 ... 80 | 800 | 3VA1180-3EE36-0AA0 |
| | 100 | 70 ... 100 | 1000 | 3VA1110-3EE36-0AA0 |
| | 125 | 88 ... 125 | 1250 | 3VA1112-3EE36-0AA0 |
| | 160 | 112 ... 160 | 1600 | 3VA1116-3EE36-0AA0 |



**Connection with lug terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 11 ... 16 | 320 | 3VA1196-3EE32-0AA0 |
| | 20 | 14 ... 20 | 320 | 3VA1120-3EE32-0AA0 |
| | 25 | 18 ... 25 | 320 | 3VA1125-3EE32-0AA0 |
| | 32 | 22 ... 32 | 320 | 3VA1132-3EE32-0AA0 |
| | 40 | 28 ... 40 | 400 | 3VA1140-3EE32-0AA0 |
| | 50 | 35 ... 50 | 500 | 3VA1150-3EE32-0AA0 |
| | 63 | 44 ... 63 | 630 | 3VA1163-3EE32-0AA0 |
| | 80 | 56 ... 80 | 800 | 3VA1180-3EE32-0AA0 |
| | 100 | 70 ... 100 | 1000 | 3VA1110-3EE32-0AA0 |
| | 125 | 88 ... 125 | 1250 | 3VA1112-3EE32-0AA0 |
| | 160 | 112 ... 160 | 1600 | 3VA1116-3EE32-0AA0 |



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ to 36 kA at 415 V, standard breaking capacity S (S) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 |
|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU |
| A | | | | | | |
| ***Line protection, TM210 FTFM*** With fixed overload protection $I_r$ and fixed short-circuit protection $I_i$ | | | | | | |
| | | **Connection with box terminal** | | | | |
| 16 | | 3VA1196-4ED36-0AA0 | | 3VA1196-5ED36-0AA0 | | 3VA1196-6ED36-0AA0 |
| 20 | | 3VA1120-4ED36-0AA0 | | 3VA1120-5ED36-0AA0 | | 3VA1120-6ED36-0AA0 |
| 25 | | 3VA1125-4ED36-0AA0 | | 3VA1125-5ED36-0AA0 | | 3VA1125-6ED36-0AA0 |
| 32 | | 3VA1132-4ED36-0AA0 | | 3VA1132-5ED36-0AA0 | | 3VA1132-6ED36-0AA0 |
| 40 | | 3VA1140-4ED36-0AA0 | | 3VA1140-5ED36-0AA0 | | 3VA1140-6ED36-0AA0 |
| 50 | | 3VA1150-4ED36-0AA0 | | 3VA1150-5ED36-0AA0 | | 3VA1150-6ED36-0AA0 |
| 63 | | 3VA1163-4ED36-0AA0 | | 3VA1163-5ED36-0AA0 | | 3VA1163-6ED36-0AA0 |
| 80 | | 3VA1180-4ED36-0AA0 | | 3VA1180-5ED36-0AA0 | | 3VA1180-6ED36-0AA0 |
| 100 | | 3VA1110-4ED36-0AA0 | | 3VA1110-5ED36-0AA0 | | 3VA1110-6ED36-0AA0 |
| 125 | | 3VA1112-4ED36-0AA0 | | 3VA1112-5ED36-0AA0 | | 3VA1112-6ED36-0AA0 |
| 160 | | 3VA1116-4ED36-0AA0 | | 3VA1116-5ED36-0AA0 | | 3VA1116-6ED36-0AA0 |
| | | **Connection with lug terminal** | | | | |
| 16 | | 3VA1196-4ED32-0AA0 | | 3VA1196-5ED32-0AA0 | | 3VA1196-6ED32-0AA0 |
| 20 | | 3VA1120-4ED32-0AA0 | | 3VA1120-5ED32-0AA0 | | 3VA1120-6ED32-0AA0 |
| 25 | | 3VA1125-4ED32-0AA0 | | 3VA1125-5ED32-0AA0 | | 3VA1125-6ED32-0AA0 |
| 32 | | 3VA1132-4ED32-0AA0 | | 3VA1132-5ED32-0AA0 | | 3VA1132-6ED32-0AA0 |
| 40 | | 3VA1140-4ED32-0AA0 | | 3VA1140-5ED32-0AA0 | | 3VA1140-6ED32-0AA0 |
| 50 | | 3VA1150-4ED32-0AA0 | | 3VA1150-5ED32-0AA0 | | 3VA1150-6ED32-0AA0 |
| 63 | | 3VA1163-4ED32-0AA0 | | 3VA1163-5ED32-0AA0 | | 3VA1163-6ED32-0AA0 |
| 80 | | 3VA1180-4ED32-0AA0 | | 3VA1180-5ED32-0AA0 | | 3VA1180-6ED32-0AA0 |
| 100 | | 3VA1110-4ED32-0AA0 | | 3VA1110-5ED32-0AA0 | | 3VA1110-6ED32-0AA0 |
| 125 | | 3VA1112-4ED32-0AA0 | | 3VA1112-5ED32-0AA0 | | 3VA1112-6ED32-0AA0 |
| 160 | | 3VA1116-4ED32-0AA0 | | 3VA1116-5ED32-0AA0 | | 3VA1116-6ED32-0AA0 |
| ***Line protection, TM220 ATFM*** With adjustable overload protection $I_r$ and fixed short-circuit protection $I_i$ | | | | | | |
| | | **Connection with box terminal** | | | | |
| 16 | | 3VA1196-4EE36-0AA0 | | 3VA1196-5EE36-0AA0 | | 3VA1196-6EE36-0AA0 |
| 20 | | 3VA1120-4EE36-0AA0 | | 3VA1120-5EE36-0AA0 | | 3VA1120-6EE36-0AA0 |
| 25 | | 3VA1125-4EE36-0AA0 | | 3VA1125-5EE36-0AA0 | | 3VA1125-6EE36-0AA0 |
| 32 | | 3VA1132-4EE36-0AA0 | | 3VA1132-5EE36-0AA0 | | 3VA1132-6EE36-0AA0 |
| 40 | | 3VA1140-4EE36-0AA0 | | 3VA1140-5EE36-0AA0 | | 3VA1140-6EE36-0AA0 |
| 50 | | 3VA1150-4EE36-0AA0 | | 3VA1150-5EE36-0AA0 | | 3VA1150-6EE36-0AA0 |
| 63 | | 3VA1163-4EE36-0AA0 | | 3VA1163-5EE36-0AA0 | | 3VA1163-6EE36-0AA0 |
| 80 | | 3VA1180-4EE36-0AA0 | | 3VA1180-5EE36-0AA0 | | 3VA1180-6EE36-0AA0 |
| 100 | | 3VA1110-4EE36-0AA0 | | 3VA1110-5EE36-0AA0 | | 3VA1110-6EE36-0AA0 |
| 125 | | 3VA1112-4EE36-0AA0 | | 3VA1112-5EE36-0AA0 | | 3VA1112-6EE36-0AA0 |
| 160 | | 3VA1116-4EE36-0AA0 | | 3VA1116-5EE36-0AA0 | | 3VA1116-6EE36-0AA0 |
| | | **Connection with lug terminal** | | | | |
| 16 | | 3VA1196-4EE32-0AA0 | | 3VA1196-5EE32-0AA0 | | 3VA1196-6EE32-0AA0 |
| 20 | | 3VA1120-4EE32-0AA0 | | 3VA1120-5EE32-0AA0 | | 3VA1120-6EE32-0AA0 |
| 25 | | 3VA1125-4EE32-0AA0 | | 3VA1125-5EE32-0AA0 | | 3VA1125-6EE32-0AA0 |
| 32 | | 3VA1132-4EE32-0AA0 | | 3VA1132-5EE32-0AA0 | | 3VA1132-6EE32-0AA0 |
| 40 | | 3VA1140-4EE32-0AA0 | | 3VA1140-5EE32-0AA0 | | 3VA1140-6EE32-0AA0 |
| 50 | | 3VA1150-4EE32-0AA0 | | 3VA1150-5EE32-0AA0 | | 3VA1150-6EE32-0AA0 |
| 63 | | 3VA1163-4EE32-0AA0 | | 3VA1163-5EE32-0AA0 | | 3VA1163-6EE32-0AA0 |
| 80 | | 3VA1180-4EE32-0AA0 | | 3VA1180-5EE32-0AA0 | | 3VA1180-6EE32-0AA0 |
| 100 | | 3VA1110-4EE32-0AA0 | | 3VA1110-5EE32-0AA0 | | 3VA1110-6EE32-0AA0 |
| 125 | | 3VA1112-4EE32-0AA0 | | 3VA1112-5EE32-0AA0 | | 3VA1112-6EE32-0AA0 |
| 160 | | 3VA1116-4EE32-0AA0 | | 3VA1116-5EE32-0AA0 | | 3VA1116-6EE32-0AA0 |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VA1 Molded Case Circuit Breakers up to 250 A, IEC NEW





PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

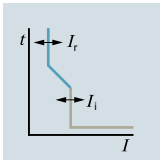


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instanta-neous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|
| | | A | A | A | | | |

### 3-pole, fixed-mounted, 3VA11/3VA12, up to 250 A Thermal-magnetic trip unit

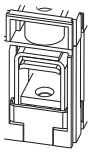



I201_19035



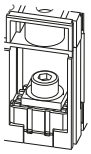

***Line protection, TM240 ATAM***

With adjustable overload protection $I_r$ and adjustable short-circuit protection $I_i$



**Connection with box terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 11 ... 16 | 160 ... 320 | 3VA1196-3EF36-0AA0 |
| | 20 | 14 ... 20 | 160 ... 320 | 3VA1120-3EF36-0AA0 |
| | 25 | 18 ... 25 | 160 ... 320 | 3VA1125-3EF36-0AA0 |
| | 32 | 16 ... 32 | 160 ... 320 | 3VA1132-3EF36-0AA0 |
| | 40 | 28 ... 40 | 200 ... 400 | 3VA1140-3EF36-0AA0 |
| | 50 | 35 ... 50 | 250 ... 500 | 3VA1150-3EF36-0AA0 |
| | 63 | 44 ... 63 | 315 ... 630 | 3VA1163-3EF36-0AA0 |
| | 80 | 56 ... 80 | 400 ... 800 | 3VA1180-3EF36-0AA0 |
| | 100 | 70 ... 100 | 500 ... 1000 | 3VA1110-3EF36-0AA0 |
| | 125 | 88 ... 125 | 625 ... 1250 | 3VA1112-3EF36-0AA0 |
| | 160 | 112 ... 160 | 800 ... 1600 | 3VA1116-3EF36-0AA0 |



**Connection with lug terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 11 ... 16 | 160 ... 320 | 3VA1196-3EF32-0AA0 |
| | 20 | 14 ... 20 | 160 ... 320 | 3VA1120-3EF32-0AA0 |
| | 25 | 18 ... 25 | 160 ... 320 | 3VA1125-3EF32-0AA0 |
| | 32 | 16 ... 32 | 160 ... 320 | 3VA1132-3EF32-0AA0 |
| | 40 | 28 ... 40 | 200 ... 400 | 3VA1140-3EF32-0AA0 |
| | 50 | 35 ... 50 | 250 ... 500 | 3VA1150-3EF32-0AA0 |
| | 63 | 44 ... 63 | 315 ... 630 | 3VA1163-3EF32-0AA0 |
| | 80 | 56 ... 80 | 400 ... 800 | 3VA1180-3EF32-0AA0 |
| | 100 | 70 ... 100 | 500 ... 1000 | 3VA1110-3EF32-0AA0 |
| | 125 | 88 ... 125 | 625 ... 1250 | 3VA1112-3EF32-0AA0 |
| | 160 | 112 ... 160 | 800 ... 1600 | 3VA1116-3EF32-0AA0 |
| 3VA12 | 160 | 112 ... 160 | 800 ... 1600 | -- |
| | 200 | 140 ... 200 | 1000 ... 2000 | -- |
| | 250 | 175 ... 250 | 1250 ... 2500 | -- |



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | **$I_{cu}$ to 36 kA at 415 V, standard breaking capacity S** (S) See "Overview", p. 2/6 and 2/7 | | DT | **$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M** (M) See "Overview", p. 2/6 and 2/7 | | DT | **$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H** (H) See "Overview", p. 2/6 and 2/7 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | Article No. www.siemens.com/product?Article No. | Basic price per PU |
| A | | | | | | | | | |
| ***Line protection, TM240 ATAM*** With adjustable overload protection $I_r$ and adjustable short-circuit protection $I_i$ | | | | | | | | | |
| | | **Connection with box terminal** | | | | | | | |
| 16 | | 3VA1196-4EF36-0AA0 | | | 3VA1196-5EF36-0AA0 | | | 3VA1196-6EF36-0AA0 | |
| 20 | | 3VA1120-4EF36-0AA0 | | | 3VA1120-5EF36-0AA0 | | | 3VA1120-6EF36-0AA0 | |
| 25 | | 3VA1125-4EF36-0AA0 | | | 3VA1125-5EF36-0AA0 | | | 3VA1125-6EF36-0AA0 | |
| 32 | | 3VA1132-4EF36-0AA0 | | | 3VA1132-5EF36-0AA0 | | | 3VA1132-6EF36-0AA0 | |
| 40 | | 3VA1140-4EF36-0AA0 | | | 3VA1140-5EF36-0AA0 | | | 3VA1140-6EF36-0AA0 | |
| 50 | | 3VA1150-4EF36-0AA0 | | | 3VA1150-5EF36-0AA0 | | | 3VA1150-6EF36-0AA0 | |
| 63 | | 3VA1163-4EF36-0AA0 | | | 3VA1163-5EF36-0AA0 | | | 3VA1163-6EF36-0AA0 | |
| 80 | | 3VA1180-4EF36-0AA0 | | | 3VA1180-5EF36-0AA0 | | | 3VA1180-6EF36-0AA0 | |
| 100 | | 3VA1110-4EF36-0AA0 | | | 3VA1110-5EF36-0AA0 | | | 3VA1110-6EF36-0AA0 | |
| 125 | | 3VA1112-4EF36-0AA0 | | | 3VA1112-5EF36-0AA0 | | | 3VA1112-6EF36-0AA0 | |
| 160 | | 3VA1116-4EF36-0AA0 | | | 3VA1116-5EF36-0AA0 | | | 3VA1116-6EF36-0AA0 | |
| | | **Connection with lug terminal** | | | | | | | |
| 16 | | 3VA1196-4EF32-0AA0 | | | 3VA1196-5EF32-0AA0 | | | 3VA1196-6EF32-0AA0 | |
| 20 | | 3VA1120-4EF32-0AA0 | | | 3VA1120-5EF32-0AA0 | | | 3VA1120-6EF32-0AA0 | |
| 25 | | 3VA1125-4EF32-0AA0 | | | 3VA1125-5EF32-0AA0 | | | 3VA1125-6EF32-0AA0 | |
| 32 | | 3VA1132-4EF32-0AA0 | | | 3VA1132-5EF32-0AA0 | | | 3VA1132-6EF32-0AA0 | |
| 40 | | 3VA1140-4EF32-0AA0 | | | 3VA1140-5EF32-0AA0 | | | 3VA1140-6EF32-0AA0 | |
| 50 | | 3VA1150-4EF32-0AA0 | | | 3VA1150-5EF32-0AA0 | | | 3VA1150-6EF32-0AA0 | |
| 63 | | 3VA1163-4EF32-0AA0 | | | 3VA1163-5EF32-0AA0 | | | 3VA1163-6EF32-0AA0 | |
| 80 | | 3VA1180-4EF32-0AA0 | | | 3VA1180-5EF32-0AA0 | | | 3VA1180-6EF32-0AA0 | |
| 100 | | 3VA1110-4EF32-0AA0 | | | 3VA1110-5EF32-0AA0 | | | 3VA1110-6EF32-0AA0 | |
| 125 | | 3VA1112-4EF32-0AA0 | | | 3VA1112-5EF32-0AA0 | | | 3VA1112-6EF32-0AA0 | |
| 160 | | 3VA1116-4EF32-0AA0 | | | 3VA1116-5EF32-0AA0 | | | 3VA1116-6EF32-0AA0 | |
| 160 | | 3VA1216-4EF32-0AA0 | | | 3VA1216-5EF32-0AA0 | | | 3VA1216-6EF32-0AA0 | |
| 200 | | 3VA1220-4EF32-0AA0 | | | 3VA1220-5EF32-0AA0 | | | 3VA1220-6EF32-0AA0 | |
| 250 | | 3VA1225-4EF32-0AA0 | | | 3VA1225-5EF32-0AA0 | | | 3VA1225-6EF32-0AA0 | |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VA1 Molded Case Circuit Breakers up to 250 A, IEC NEW

### Line protection



PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

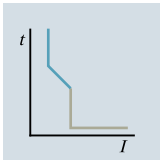


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instanta-neous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 16 kA at 415 V, very low breaking capacity B (B) See "Overview", p. 2/6 and 2/7 | |
|---|---|---|---|---|---|---|---|
| | | | | | | Article No. www.siemens.com/product?Article No. | Basic price per PU |
| | | A | A | A | | | |

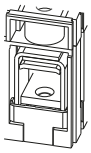
**4-pole, fixed-mounted, 3VA10, up to 100 A**
**Thermal-magnetic trip unit**




I201_19027

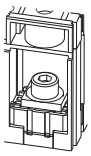



***Line protection, TM210 FTFM, without neutral conductor protection***
With fixed overload protection $I_r$ and fixed short-circuit protection $I_i$



**Connection with box terminal**

| | | | | |
|---|---|---|---|---|
| 3VA10 | 16 | 16 | 320 | 3VA1096-2ED46-0AA0 |
| | 20 | 20 | 320 | 3VA1020-2ED46-0AA0 |
| | 25 | 25 | 320 | 3VA1025-2ED46-0AA0 |
| | 32 | 32 | 320 | 3VA1032-2ED46-0AA0 |
| | 40 | 40 | 400 | 3VA1040-2ED46-0AA0 |
| | 50 | 50 | 500 | 3VA1050-2ED46-0AA0 |
| | 63 | 63 | 630 | 3VA1063-2ED46-0AA0 |
| | 80 | 80 | 800 | 3VA1080-2ED46-0AA0 |
| | 100 | 100 | 1000 | 3VA1010-2ED46-0AA0 |



**Connection with lug terminal**

| | | | | |
|---|---|---|---|---|
| 3VA10 | 16 | 16 | 320 | 3VA1096-2ED42-0AA0 |
| | 20 | 20 | 320 | 3VA1020-2ED42-0AA0 |
| | 25 | 25 | 320 | 3VA1025-2ED42-0AA0 |
| | 32 | 32 | 320 | 3VA1032-2ED42-0AA0 |
| | 40 | 40 | 400 | 3VA1040-2ED42-0AA0 |
| | 50 | 50 | 500 | 3VA1050-2ED42-0AA0 |
| | 63 | 63 | 630 | 3VA1063-2ED42-0AA0 |
| | 80 | 80 | 800 | 3VA1080-2ED42-0AA0 |
| | 100 | 100 | 1000 | 3VA1010-2ED42-0AA0 |



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 | | DT | $I_{cu}$ to 36 kA at 415 V, standard breaking capacity S (S) See "Overview", p. 2/6 and 2/7 | |
|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | Article No. www.siemens.com/product?Article No. | Basic price per PU |
| A | | | | | | |
| ***Line protection, TM210 FTFM, without neutral conductor protection*** With fixed overload protection $I_r$ and fixed short-circuit protection $I_i$ | | | | | | |
| | | **Connection with box terminal** | | | | |
| 16 | | 3VA1096-3ED46-0AA0 | | | 3VA1096-4ED46-0AA0 | |
| 20 | | 3VA1020-3ED46-0AA0 | | | 3VA1020-4ED46-0AA0 | |
| 25 | | 3VA1025-3ED46-0AA0 | | | 3VA1025-4ED46-0AA0 | |
| 32 | | 3VA1032-3ED46-0AA0 | | | 3VA1032-4ED46-0AA0 | |
| 40 | | 3VA1040-3ED46-0AA0 | | | 3VA1040-4ED46-0AA0 | |
| 50 | | 3VA1050-3ED46-0AA0 | | | 3VA1050-4ED46-0AA0 | |
| 63 | | 3VA1063-3ED46-0AA0 | | | 3VA1063-4ED46-0AA0 | |
| 80 | | 3VA1080-3ED46-0AA0 | | | 3VA1080-4ED46-0AA0 | |
| 100 | | 3VA1010-3ED46-0AA0 | | | 3VA1010-4ED46-0AA0 | |
| | | **Connection with lug terminal** | | | | |
| 16 | | 3VA1096-3ED42-0AA0 | | | 3VA1096-4ED42-0AA0 | |
| 20 | | 3VA1020-3ED42-0AA0 | | | 3VA1020-4ED42-0AA0 | |
| 25 | | 3VA1025-3ED42-0AA0 | | | 3VA1025-4ED42-0AA0 | |
| 32 | | 3VA1032-3ED42-0AA0 | | | 3VA1032-4ED42-0AA0 | |
| 40 | | 3VA1040-3ED42-0AA0 | | | 3VA1040-4ED42-0AA0 | |
| 50 | | 3VA1050-3ED42-0AA0 | | | 3VA1050-4ED42-0AA0 | |
| 63 | | 3VA1063-3ED42-0AA0 | | | 3VA1063-4ED42-0AA0 | |
| 80 | | 3VA1080-3ED42-0AA0 | | | 3VA1080-4ED42-0AA0 | |
| 100 | | 3VA1010-3ED42-0AA0 | | | 3VA1010-4ED42-0AA0 | |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VA1 Molded Case Circuit Breakers up to 250 A, IEC NEW





PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

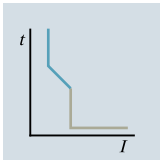


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instanta-neous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|
| | | A | A | A | | | |

### 4-pole, fixed-mounted, 3VA11, up to 160 A
### Thermal-magnetic trip unit

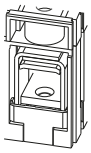



I201_19027



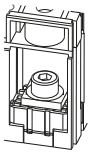

***Line protection, TM210 FTFM, without neutral conductor protection***

With fixed overload protection $I_r$ and fixed short-circuit protection $I_i$



**Connection with box terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 16 | 320 | 3VA1196-3ED46-0AA0 |
| | 20 | 20 | 320 | 3VA1120-3ED46-0AA0 |
| | 25 | 25 | 320 | 3VA1125-3ED46-0AA0 |
| | 32 | 32 | 320 | 3VA1132-3ED46-0AA0 |
| | 40 | 40 | 400 | 3VA1140-3ED46-0AA0 |
| | 50 | 50 | 500 | 3VA1150-3ED46-0AA0 |
| | 63 | 63 | 630 | 3VA1163-3ED46-0AA0 |
| | 80 | 80 | 800 | 3VA1180-3ED46-0AA0 |
| | 100 | 100 | 1000 | 3VA1110-3ED46-0AA0 |
| | 125 | 125 | 1250 | 3VA1112-3ED46-0AA0 |
| | 160 | 160 | 1600 | 3VA1116-3ED46-0AA0 |

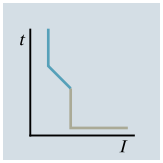


**Connection with lug terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 16 | 320 | 3VA1196-3ED42-0AA0 |
| | 20 | 20 | 320 | 3VA1120-3ED42-0AA0 |
| | 25 | 25 | 320 | 3VA1125-3ED42-0AA0 |
| | 32 | 32 | 320 | 3VA1132-3ED42-0AA0 |
| | 40 | 40 | 400 | 3VA1140-3ED42-0AA0 |
| | 50 | 50 | 500 | 3VA1150-3ED42-0AA0 |
| | 63 | 63 | 630 | 3VA1163-3ED42-0AA0 |
| | 80 | 80 | 800 | 3VA1180-3ED42-0AA0 |
| | 100 | 100 | 1000 | 3VA1110-3ED42-0AA0 |
| | 125 | 125 | 1250 | 3VA1112-3ED42-0AA0 |
| | 160 | 160 | 1600 | 3VA1116-3ED42-0AA0 |

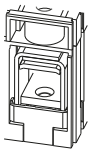



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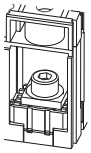

***Line protection, TM210 FTFM, 50 % neutral conductor protection***

With fixed overload protection $I_r$ and fixed short-circuit protection $I_i$



**Connection with box terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 100 | 100 | 1000 | 3VA1110-3FD46-0AA0 |
| | 125 | 125 | 1250 | 3VA1112-3FD46-0AA0 |
| | 160 | 160 | 1600 | 3VA1116-3FD46-0AA0 |



**Connection with lug terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 100 | 100 | 1000 | 3VA1110-3FD42-0AA0 |
| | 125 | 125 | 1250 | 3VA1112-3FD42-0AA0 |
| | 160 | 160 | 1600 | 3VA1116-3FD42-0AA0 |



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ to 36 kA at 415 V, standard breaking capacity S (S) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 |
|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU |
| A | | | | | | |

### *Line protection, TM210 FTFM, without neutral conductor protection*

With fixed overload protection $I_r$ and fixed short-circuit protection $I_i$

| | | | |
|---|---|---|---|
| | **Connection with box terminal** | | |
| 16 | 3VA1196-4ED46-0AA0 | 3VA1196-5ED46-0AA0 | 3VA1196-6ED46-0AA0 |
| 20 | 3VA1120-4ED46-0AA0 | 3VA1120-5ED46-0AA0 | 3VA1120-6ED46-0AA0 |
| 25 | 3VA1125-4ED46-0AA0 | 3VA1125-5ED46-0AA0 | 3VA1125-6ED46-0AA0 |
| 32 | 3VA1132-4ED46-0AA0 | 3VA1132-5ED46-0AA0 | 3VA1132-6ED46-0AA0 |
| 40 | 3VA1140-4ED46-0AA0 | 3VA1140-5ED46-0AA0 | 3VA1140-6ED46-0AA0 |
| 50 | 3VA1150-4ED46-0AA0 | 3VA1150-5ED46-0AA0 | 3VA1150-6ED46-0AA0 |
| 63 | 3VA1163-4ED46-0AA0 | 3VA1163-5ED46-0AA0 | 3VA1163-6ED46-0AA0 |
| 80 | 3VA1180-4ED46-0AA0 | 3VA1180-5ED46-0AA0 | 3VA1180-6ED46-0AA0 |
| 100 | 3VA1110-4ED46-0AA0 | 3VA1110-5ED46-0AA0 | 3VA1110-6ED46-0AA0 |
| 125 | 3VA1112-4ED46-0AA0 | 3VA1112-5ED46-0AA0 | 3VA1112-6ED46-0AA0 |
| 160 | 3VA1116-4ED46-0AA0 | 3VA1116-5ED46-0AA0 | 3VA1116-6ED46-0AA0 |
| | **Connection with lug terminal** | | |
| 16 | 3VA1196-4ED42-0AA0 | 3VA1196-5ED42-0AA0 | 3VA1196-6ED42-0AA0 |
| 20 | 3VA1120-4ED42-0AA0 | 3VA1120-5ED42-0AA0 | 3VA1120-6ED42-0AA0 |
| 25 | 3VA1125-4ED42-0AA0 | 3VA1125-5ED42-0AA0 | 3VA1125-6ED42-0AA0 |
| 32 | 3VA1132-4ED42-0AA0 | 3VA1132-5ED42-0AA0 | 3VA1132-6ED42-0AA0 |
| 40 | 3VA1140-4ED42-0AA0 | 3VA1140-5ED42-0AA0 | 3VA1140-6ED42-0AA0 |
| 50 | 3VA1150-4ED42-0AA0 | 3VA1150-5ED42-0AA0 | 3VA1150-6ED42-0AA0 |
| 63 | 3VA1163-4ED42-0AA0 | 3VA1163-5ED42-0AA0 | 3VA1163-6ED42-0AA0 |
| 80 | 3VA1180-4ED42-0AA0 | 3VA1180-5ED42-0AA0 | 3VA1180-6ED42-0AA0 |
| 100 | 3VA1110-4ED42-0AA0 | 3VA1110-5ED42-0AA0 | 3VA1110-6ED42-0AA0 |
| 125 | 3VA1112-4ED42-0AA0 | 3VA1112-5ED42-0AA0 | 3VA1112-6ED42-0AA0 |
| 160 | 3VA1116-4ED42-0AA0 | 3VA1116-5ED42-0AA0 | 3VA1116-6ED42-0AA0 |

### *Line protection, TM210 FTFM, 50 % neutral conductor protection*

With adjustable overload protection $I_r$ and fixed short-circuit protection $I_i$

| | | | |
|---|---|---|---|
| | **Connection with box terminal** | | |
| 100 | 3VA1110-4FD46-0AA0 | 3VA1110-5FD46-0AA0 | 3VA1110-6FD46-0AA0 |
| 125 | 3VA1112-4FD46-0AA0 | 3VA1112-5FD46-0AA0 | 3VA1112-6FD46-0AA0 |
| 160 | 3VA1116-4FD46-0AA0 | 3VA1116-5FD46-0AA0 | 3VA1116-6FD46-0AA0 |
| | **Connection with lug terminal** | | |
| 100 | 3VA1110-4FD42-0AA0 | 3VA1110-5FD42-0AA0 | 3VA1110-6FD42-0AA0 |
| 125 | 3VA1112-4FD42-0AA0 | 3VA1112-5FD42-0AA0 | 3VA1112-6FD42-0AA0 |
| 160 | 3VA1116-4FD42-0AA0 | 3VA1116-5FD42-0AA0 | 3VA1116-6FD42-0AA0 |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VA1 Molded Case Circuit Breakers up to 250 A, IEC NEW

### Line protection

PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

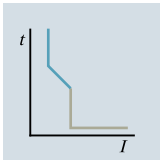


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instanta-neous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|
| | | A | A | A | | | |

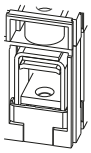
#### 4-pole, fixed-mounted, 3VA11, up to 160 A
#### Thermal-magnetic trip unit




I201_19027

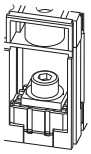



***Line protection, TM210 FTFM, 100 % neutral conductor protection***
With fixed overload protection $I_r$ and fixed short-circuit protection $I_i$



**Connection with box terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 16 | 320 | 3VA1196-3GD46-0AA0 |
| | 20 | 20 | 320 | 3VA1120-3GD46-0AA0 |
| | 25 | 25 | 320 | 3VA1125-3GD46-0AA0 |
| | 32 | 32 | 320 | 3VA1132-3GD46-0AA0 |
| | 40 | 40 | 400 | 3VA1140-3GD46-0AA0 |
| | 50 | 50 | 500 | 3VA1150-3GD46-0AA0 |
| | 63 | 63 | 630 | 3VA1163-3GD46-0AA0 |
| | 80 | 80 | 800 | 3VA1180-3GD46-0AA0 |
| | 100 | 100 | 1000 | 3VA1110-3GD46-0AA0 |
| | 125 | 125 | 1250 | 3VA1112-3GD46-0AA0 |
| | 160 | 160 | 1600 | 3VA1116-3GD46-0AA0 |

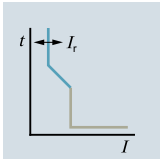


**Connection with lug terminal**

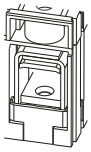
| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 16 | 320 | 3VA1196-3GD42-0AA0 |
| | 20 | 20 | 320 | 3VA1120-3GD42-0AA0 |
| | 25 | 25 | 320 | 3VA1125-3GD42-0AA0 |
| | 32 | 32 | 320 | 3VA1132-3GD42-0AA0 |
| | 40 | 40 | 400 | 3VA1140-3GD42-0AA0 |
| | 50 | 50 | 500 | 3VA1150-3GD42-0AA0 |
| | 63 | 63 | 630 | 3VA1163-3GD42-0AA0 |
| | 80 | 80 | 800 | 3VA1180-3GD42-0AA0 |
| | 100 | 100 | 1000 | 3VA1110-3GD42-0AA0 |
| | 125 | 125 | 1250 | 3VA1112-3GD42-0AA0 |
| | 160 | 160 | 1600 | 3VA1116-3GD42-0AA0 |




I201_19028

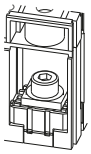



***Line protection, TM220 ATFM, without neutral conductor protection***
With adjustable overload protection $I_r$ and fixed short-circuit protection $I_i$



**Connection with box terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 11 ... 16 | 320 | 3VA1196-3EE46-0AA0 |
| | 20 | 14 ... 20 | 320 | 3VA1120-3EE46-0AA0 |
| | 25 | 18 ... 25 | 320 | 3VA1125-3EE46-0AA0 |
| | 32 | 22 ... 32 | 320 | 3VA1132-3EE46-0AA0 |
| | 40 | 28 ... 40 | 400 | 3VA1140-3EE46-0AA0 |
| | 50 | 35 ... 50 | 500 | 3VA1150-3EE46-0AA0 |
| | 63 | 44 ... 63 | 630 | 3VA1163-3EE46-0AA0 |
| | 80 | 56 ... 80 | 800 | 3VA1180-3EE46-0AA0 |
| | 100 | 70 ... 100 | 1000 | 3VA1110-3EE46-0AA0 |
| | 125 | 88 ... 125 | 1250 | 3VA1112-3EE46-0AA0 |
| | 160 | 112 ... 160 | 1600 | 3VA1116-3EE46-0AA0 |



**Connection with lug terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 11 ... 16 | 320 | 3VA1196-3EE42-0AA0 |
| | 20 | 14 ... 20 | 320 | 3VA1120-3EE42-0AA0 |
| | 25 | 18 ... 25 | 320 | 3VA1125-3EE42-0AA0 |
| | 32 | 22 ... 32 | 320 | 3VA1132-3EE42-0AA0 |
| | 40 | 28 ... 40 | 400 | 3VA1140-3EE42-0AA0 |
| | 50 | 35 ... 50 | 500 | 3VA1150-3EE42-0AA0 |
| | 63 | 44 ... 63 | 630 | 3VA1163-3EE42-0AA0 |
| | 80 | 56 ... 80 | 800 | 3VA1180-3EE42-0AA0 |
| | 100 | 70 ... 100 | 1000 | 3VA1110-3EE42-0AA0 |
| | 125 | 88 ... 125 | 1250 | 3VA1112-3EE42-0AA0 |
| | 160 | 112 ... 160 | 1600 | 3VA1116-3EE42-0AA0 |



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ to 36 kA at 415 V, standard breaking capacity S (S) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 |
|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU |
| A | | | | | | |
| ***Line protection, TM210 FTFM, 100 % neutral conductor protection*** With fixed overload protection $I_r$ and fixed short-circuit protection $I_i$ | | | | | | |
| | | **Connection with box terminal** | | | | |
| 16 | | 3VA1196-4GD46-0AA0 | | 3VA1196-5GD46-0AA0 | | 3VA1196-6GD46-0AA0 |
| 20 | | 3VA1120-4GD46-0AA0 | | 3VA1120-5GD46-0AA0 | | 3VA1120-6GD46-0AA0 |
| 25 | | 3VA1125-4GD46-0AA0 | | 3VA1125-5GD46-0AA0 | | 3VA1125-6GD46-0AA0 |
| 32 | | 3VA1132-4GD46-0AA0 | | 3VA1132-5GD46-0AA0 | | 3VA1132-6GD46-0AA0 |
| 40 | | 3VA1140-4GD46-0AA0 | | 3VA1140-5GD46-0AA0 | | 3VA1140-6GD46-0AA0 |
| 50 | | 3VA1150-4GD46-0AA0 | | 3VA1150-5GD46-0AA0 | | 3VA1150-6GD46-0AA0 |
| 63 | | 3VA1163-4GD46-0AA0 | | 3VA1163-5GD46-0AA0 | | 3VA1163-6GD46-0AA0 |
| 80 | | 3VA1180-4GD46-0AA0 | | 3VA1180-5GD46-0AA0 | | 3VA1180-6GD46-0AA0 |
| 100 | | 3VA1110-4GD46-0AA0 | | 3VA1110-5GD46-0AA0 | | 3VA1110-6GD46-0AA0 |
| 125 | | 3VA1112-4GD46-0AA0 | | 3VA1112-5GD46-0AA0 | | 3VA1112-6GD46-0AA0 |
| 160 | | 3VA1116-4GD46-0AA0 | | 3VA1116-5GD46-0AA0 | | 3VA1116-6GD46-0AA0 |
| | | **Connection with lug terminal** | | | | |
| 16 | | 3VA1196-4GD42-0AA0 | | 3VA1196-5GD42-0AA0 | | 3VA1196-6GD42-0AA0 |
| 20 | | 3VA1120-4GD42-0AA0 | | 3VA1120-5GD42-0AA0 | | 3VA1120-6GD42-0AA0 |
| 25 | | 3VA1125-4GD42-0AA0 | | 3VA1125-5GD42-0AA0 | | 3VA1125-6GD42-0AA0 |
| 32 | | 3VA1132-4GD42-0AA0 | | 3VA1132-5GD42-0AA0 | | 3VA1132-6GD42-0AA0 |
| 40 | | 3VA1140-4GD42-0AA0 | | 3VA1140-5GD42-0AA0 | | 3VA1140-6GD42-0AA0 |
| 50 | | 3VA1150-4GD42-0AA0 | | 3VA1150-5GD42-0AA0 | | 3VA1150-6GD42-0AA0 |
| 63 | | 3VA1163-4GD42-0AA0 | | 3VA1163-5GD42-0AA0 | | 3VA1163-6GD42-0AA0 |
| 80 | | 3VA1180-4GD42-0AA0 | | 3VA1180-5GD42-0AA0 | | 3VA1180-6GD42-0AA0 |
| 100 | | 3VA1110-4GD42-0AA0 | | 3VA1110-5GD42-0AA0 | | 3VA1110-6GD42-0AA0 |
| 125 | | 3VA1112-4GD42-0AA0 | | 3VA1112-5GD42-0AA0 | | 3VA1112-6GD42-0AA0 |
| 160 | | 3VA1116-4GD42-0AA0 | | 3VA1116-5GD42-0AA0 | | 3VA1116-6GD42-0AA0 |
| ***Line protection, TM220 ATFM, without neutral conductor protection*** With adjustable overload protection $I_r$ and fixed short-circuit protection $I_i$ | | | | | | |
| | | **Connection with box terminal** | | | | |
| 16 | | 3VA1196-4EE46-0AA0 | | 3VA1196-5EE46-0AA0 | | 3VA1196-6EE46-0AA0 |
| 20 | | 3VA1120-4EE46-0AA0 | | 3VA1120-5EE46-0AA0 | | 3VA1120-6EE46-0AA0 |
| 25 | | 3VA1125-4EE46-0AA0 | | 3VA1125-5EE46-0AA0 | | 3VA1125-6EE46-0AA0 |
| 32 | | 3VA1132-4EE46-0AA0 | | 3VA1132-5EE46-0AA0 | | 3VA1132-6EE46-0AA0 |
| 40 | | 3VA1140-4EE46-0AA0 | | 3VA1140-5EE46-0AA0 | | 3VA1140-6EE46-0AA0 |
| 50 | | 3VA1150-4EE46-0AA0 | | 3VA1150-5EE46-0AA0 | | 3VA1150-6EE46-0AA0 |
| 63 | | 3VA1163-4EE46-0AA0 | | 3VA1163-5EE46-0AA0 | | 3VA1163-6EE46-0AA0 |
| 80 | | 3VA1180-4EE46-0AA0 | | 3VA1180-5EE46-0AA0 | | 3VA1180-6EE46-0AA0 |
| 100 | | 3VA1110-4EE46-0AA0 | | 3VA1110-5EE46-0AA0 | | 3VA1110-6EE46-0AA0 |
| 125 | | 3VA1112-4EE46-0AA0 | | 3VA1112-5EE46-0AA0 | | 3VA1112-6EE46-0AA0 |
| 160 | | 3VA1116-4EE46-0AA0 | | 3VA1116-5EE46-0AA0 | | 3VA1116-6EE46-0AA0 |
| | | **Connection with lug terminal** | | | | |
| 16 | | 3VA1196-4EE42-0AA0 | | 3VA1196-5EE42-0AA0 | | 3VA1196-6EE42-0AA0 |
| 20 | | 3VA1120-4EE42-0AA0 | | 3VA1120-5EE42-0AA0 | | 3VA1120-6EE42-0AA0 |
| 25 | | 3VA1125-4EE42-0AA0 | | 3VA1125-5EE42-0AA0 | | 3VA1125-6EE42-0AA0 |
| 32 | | 3VA1132-4EE42-0AA0 | | 3VA1132-5EE42-0AA0 | | 3VA1132-6EE42-0AA0 |
| 40 | | 3VA1140-4EE42-0AA0 | | 3VA1140-5EE42-0AA0 | | 3VA1140-6EE42-0AA0 |
| 50 | | 3VA1150-4EE42-0AA0 | | 3VA1150-5EE42-0AA0 | | 3VA1150-6EE42-0AA0 |
| 63 | | 3VA1163-4EE42-0AA0 | | 3VA1163-5EE42-0AA0 | | 3VA1163-6EE42-0AA0 |
| 80 | | 3VA1180-4EE42-0AA0 | | 3VA1180-5EE42-0AA0 | | 3VA1180-6EE42-0AA0 |
| 100 | | 3VA1110-4EE42-0AA0 | | 3VA1110-5EE42-0AA0 | | 3VA1110-6EE42-0AA0 |
| 125 | | 3VA1112-4EE42-0AA0 | | 3VA1112-5EE42-0AA0 | | 3VA1112-6EE42-0AA0 |
| 160 | | 3VA1116-4EE42-0AA0 | | 3VA1116-5EE42-0AA0 | | 3VA1116-6EE42-0AA0 |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VA1 Molded Case Circuit Breakers up to 250 A, IEC NEW

### Line protection

PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

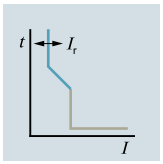




| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instanta-neous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|
| | | A | A | A | | | |

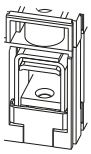
**4-pole, fixed-mounted, 3VA11, up to 160 A**
**Thermal-magnetic trip unit**



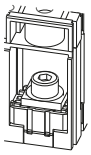

***Line protection, TM220 ATFM, 50 % neutral conductor protection***
With adjustable overload protection $I_r$ and fixed short-circuit protection $I_i$

**Connection with box terminal**



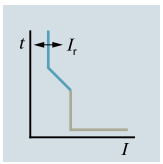
| | | | | |
|---|---|---|---|---|
| 3VA11 | 100 | 70 ... 100 | 1000 | 3VA1110-3FE46-0AA0 |
| | 125 | 88 ... 125 | 1250 | 3VA1112-3FE46-0AA0 |
| | 160 | 112 ... 160 | 1600 | 3VA1116-3FE46-0AA0 |

**Connection with lug terminal**



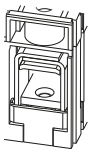
| | | | | |
|---|---|---|---|---|
| 3VA11 | 100 | 70 ... 100 | 1000 | 3VA1110-3FE42-0AA0 |
| | 125 | 88 ... 125 | 1250 | 3VA1112-3FE42-0AA0 |
| | 160 | 112 ... 160 | 1600 | 3VA1116-3FE42-0AA0 |



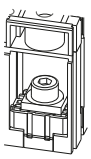

***Line protection, TM220 ATFM, 100 % neutral conductor protection***
With adjustable overload protection $I_r$ and fixed short-circuit protection $I_i$

**Connection with box terminal**



| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 11 ... 16 | 320 | 3VA1196-3GE46-0AA0 |
| | 20 | 14 ... 20 | 320 | 3VA1120-3GE46-0AA0 |
| | 25 | 18 ... 25 | 320 | 3VA1125-3GE46-0AA0 |
| | 32 | 22 ... 32 | 320 | 3VA1132-3GE46-0AA0 |
| | 40 | 28 ... 40 | 400 | 3VA1140-3GE46-0AA0 |
| | 50 | 35 ... 50 | 500 | 3VA1150-3GE46-0AA0 |
| | 63 | 44 ... 63 | 630 | 3VA1163-3GE46-0AA0 |
| | 80 | 56 ... 80 | 800 | 3VA1180-3GE46-0AA0 |
| | 100 | 70 ... 100 | 1000 | 3VA1110-3GE46-0AA0 |
| | 125 | 88 ... 125 | 1250 | 3VA1112-3GE46-0AA0 |
| | 160 | 112 ... 160 | 1600 | 3VA1116-3GE46-0AA0 |

**Connection with lug terminal**



| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 11 ... 16 | 320 | 3VA1196-3GE42-0AA0 |
| | 20 | 14 ... 20 | 320 | 3VA1120-3GE42-0AA0 |
| | 25 | 18 ... 25 | 320 | 3VA1125-3GE42-0AA0 |
| | 32 | 22 ... 32 | 320 | 3VA1132-3GE42-0AA0 |
| | 40 | 28 ... 40 | 400 | 3VA1140-3GE42-0AA0 |
| | 50 | 35 ... 50 | 500 | 3VA1150-3GE42-0AA0 |
| | 63 | 44 ... 63 | 630 | 3VA1163-3GE42-0AA0 |
| | 80 | 56 ... 80 | 800 | 3VA1180-3GE42-0AA0 |
| | 100 | 70 ... 100 | 1000 | 3VA1110-3GE42-0AA0 |
| | 125 | 88 ... 125 | 1250 | 3VA1112-3GE42-0AA0 |
| | 160 | 112 ... 160 | 1600 | 3VA1116-3GE42-0AA0 |



* You can order this quantity or a multiple thereof.

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2

PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ to 36 kA at 415 V, standard breaking capacity S (S) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 |
|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU |
| A | | | | | | |
| ***Line protection, TM220 ATFM, 50 % neutral conductor protection*** With adjustable overload protection $I_r$ and fixed short-circuit protection $I_i$ | | | | | | |
| | | **Connection with box terminal** | | | | |
| 100 | | 3VA1110-4FE46-0AA0 | | 3VA1110-5FE46-0AA0 | | 3VA1110-6FE46-0AA0 |
| 125 | | 3VA1112-4FE46-0AA0 | | 3VA1112-5FE46-0AA0 | | 3VA1112-6FE46-0AA0 |
| 160 | | 3VA1116-4FE46-0AA0 | | 3VA1116-5FE46-0AA0 | | 3VA1116-6FE46-0AA0 |
| | | **Connection with lug terminal** | | | | |
| 100 | | 3VA1110-4FE42-0AA0 | | 3VA1110-5FE42-0AA0 | | 3VA1110-6FE42-0AA0 |
| 125 | | 3VA1112-4FE42-0AA0 | | 3VA1112-5FE42-0AA0 | | 3VA1112-6FE42-0AA0 |
| 160 | | 3VA1116-4FE42-0AA0 | | 3VA1116-5FE42-0AA0 | | 3VA1116-6FE42-0AA0 |
| ***Line protection, TM220 ATFM, 100 % neutral conductor protection*** With adjustable overload protection $I_r$ and fixed short-circuit protection $I_i$ | | | | | | |
| | | **Connection with box terminal** | | | | |
| 16 | | 3VA1196-4GE46-0AA0 | | 3VA1196-5GE46-0AA0 | | 3VA1196-6GE46-0AA0 |
| 20 | | 3VA1120-4GE46-0AA0 | | 3VA1120-5GE46-0AA0 | | 3VA1120-6GE46-0AA0 |
| 25 | | 3VA1125-4GE46-0AA0 | | 3VA1125-5GE46-0AA0 | | 3VA1125-6GE46-0AA0 |
| 32 | | 3VA1132-4GE46-0AA0 | | 3VA1132-5GE46-0AA0 | | 3VA1132-6GE46-0AA0 |
| 40 | | 3VA1140-4GE46-0AA0 | | 3VA1140-5GE46-0AA0 | | 3VA1140-6GE46-0AA0 |
| 50 | | 3VA1150-4GE46-0AA0 | | 3VA1150-5GE46-0AA0 | | 3VA1150-6GE46-0AA0 |
| 63 | | 3VA1163-4GE46-0AA0 | | 3VA1163-5GE46-0AA0 | | 3VA1163-6GE46-0AA0 |
| 80 | | 3VA1180-4GE46-0AA0 | | 3VA1180-5GE46-0AA0 | | 3VA1180-6GE46-0AA0 |
| 100 | | 3VA1110-4GE46-0AA0 | | 3VA1110-5GE46-0AA0 | | 3VA1110-6GE46-0AA0 |
| 125 | | 3VA1112-4GE46-0AA0 | | 3VA1112-5GE46-0AA0 | | 3VA1112-6GE46-0AA0 |
| 160 | | 3VA1116-4GE46-0AA0 | | 3VA1116-5GE46-0AA0 | | 3VA1116-6GE46-0AA0 |
| | | **Connection with lug terminal** | | | | |
| 16 | | 3VA1196-4GE42-0AA0 | | 3VA1196-5GE42-0AA0 | | 3VA1196-6GE42-0AA0 |
| 20 | | 3VA1120-4GE42-0AA0 | | 3VA1120-5GE42-0AA0 | | 3VA1120-6GE42-0AA0 |
| 25 | | 3VA1125-4GE42-0AA0 | | 3VA1125-5GE42-0AA0 | | 3VA1125-6GE42-0AA0 |
| 32 | | 3VA1132-4GE42-0AA0 | | 3VA1132-5GE42-0AA0 | | 3VA1132-6GE42-0AA0 |
| 40 | | 3VA1140-4GE42-0AA0 | | 3VA1140-5GE42-0AA0 | | 3VA1140-6GE42-0AA0 |
| 50 | | 3VA1150-4GE42-0AA0 | | 3VA1150-5GE42-0AA0 | | 3VA1150-6GE42-0AA0 |
| 63 | | 3VA1163-4GE42-0AA0 | | 3VA1163-5GE42-0AA0 | | 3VA1163-6GE42-0AA0 |
| 80 | | 3VA1180-4GE42-0AA0 | | 3VA1180-5GE42-0AA0 | | 3VA1180-6GE42-0AA0 |
| 100 | | 3VA1110-4GE42-0AA0 | | 3VA1110-5GE42-0AA0 | | 3VA1110-6GE42-0AA0 |
| 125 | | 3VA1112-4GE42-0AA0 | | 3VA1112-5GE42-0AA0 | | 3VA1112-6GE42-0AA0 |
| 160 | | 3VA1116-4GE42-0AA0 | | 3VA1116-5GE42-0AA0 | | 3VA1116-6GE42-0AA0 |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VA1 Molded Case Circuit Breakers up to 250 A, IEC NEW

### Line protection

PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

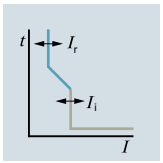


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|
| | | A | A | A | | | |

**4-pole, fixed-mounted, 3VA11/3VA12, up to 250 A**
**Thermal-magnetic trip unit**

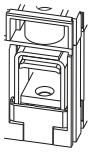


I201_19035



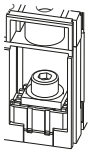

***Line protection, TM240 ATAM, without neutral conductor protection***
With adjustable overload protection $I_r$ and adjustable short-circuit protection $I_i$

**Connection with box terminal**



| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 11 ... 16 | 160 ... 320 | 3VA1196-3EF46-0AA0 |
| | 20 | 14 ... 20 | 160 ... 320 | 3VA1120-3EF46-0AA0 |
| | 25 | 18 ... 25 | 160 ... 320 | 3VA1125-3EF46-0AA0 |
| | 32 | 16 ... 32 | 160 ... 320 | 3VA1132-3EF46-0AA0 |
| | 40 | 28 ... 40 | 200 ... 400 | 3VA1140-3EF46-0AA0 |
| | 50 | 35 ... 50 | 250 ... 500 | 3VA1150-3EF46-0AA0 |
| | 63 | 44 ... 63 | 315 ... 630 | 3VA1163-3EF46-0AA0 |
| | 80 | 56 ... 80 | 400 ... 800 | 3VA1180-3EF46-0AA0 |
| | 100 | 70 ... 100 | 500 ... 1000 | 3VA1110-3EF46-0AA0 |
| | 125 | 88 ... 125 | 625 ... 1250 | 3VA1112-3EF46-0AA0 |
| | 160 | 112 ... 160 | 800 ... 1600 | 3VA1116-3EF46-0AA0 |

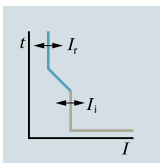
**Connection with lug terminal**



| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 11 ... 16 | 160 ... 320 | 3VA1196-3EF42-0AA0 |
| | 20 | 14 ... 20 | 160 ... 320 | 3VA1120-3EF42-0AA0 |
| | 25 | 18 ... 25 | 160 ... 320 | 3VA1125-3EF42-0AA0 |
| | 32 | 16 ... 32 | 160 ... 320 | 3VA1132-3EF42-0AA0 |
| | 40 | 28 ... 40 | 200 ... 400 | 3VA1140-3EF42-0AA0 |
| | 50 | 35 ... 50 | 250 ... 500 | 3VA1150-3EF42-0AA0 |
| | 63 | 44 ... 63 | 315 ... 630 | 3VA1163-3EF42-0AA0 |
| | 80 | 56 ... 80 | 400 ... 800 | 3VA1180-3EF42-0AA0 |
| | 100 | 70 ... 100 | 500 ... 1000 | 3VA1110-3EF42-0AA0 |
| | 125 | 88 ... 125 | 625 ... 1250 | 3VA1112-3EF42-0AA0 |
| | 160 | 112 ... 160 | 800 ... 1600 | 3VA1116-3EF42-0AA0 |
| 3VA12 | 160 | 112 ... 160 | 800 ... 1600 | -- |
| | 200 | 140 ... 200 | 1000 ... 2000 | -- |
| | 250 | 175 ... 250 | 1250 ... 2500 | -- |

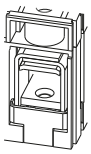


I201_19035



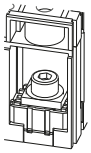

***Line protection, TM240 ATAM, 50 % neutral conductor protection***
With adjustable overload protection $I_r$ and adjustable short-circuit protection $I_i$

**Connection with box terminal**



| | | | | |
|---|---|---|---|---|
| 3VA11 | 100 | 70 ... 100 | 500 ... 1000 | 3VA1110-3FF46-0AA0 |
| | 125 | 88 ... 125 | 625 ... 1250 | 3VA1112-3FF46-0AA0 |
| | 160 | 112 ... 160 | 800 ... 1600 | 3VA1116-3FF46-0AA0 |

**Connection with lug terminal**



| | | | | |
|---|---|---|---|---|
| 3VA11 | 100 | 70 ... 100 | 500 ... 1000 | 3VA1110-3FF42-0AA0 |
| | 125 | 88 ... 125 | 625 ... 1250 | 3VA1112-3FF42-0AA0 |
| | 160 | 112 ... 160 | 800 ... 1600 | 3VA1116-3FF42-0AA0 |
| 3VA12 | 160 | 112 ... 160 | 800 ... 1600 | -- |
| | 200 | 140 ... 200 | 1000 ... 2000 | -- |
| | 250 | 175 ... 250 | 1250 ... 2500 | -- |



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ to 36 kA at 415 V, standard breaking capacity S (S) See "Overview", p. 2/6 and 2/7 | | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 | | DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | Article No. www.siemens.com/product?Article No. | Basic price per PU |
| A | | | | | | | | | |
| ***Line protection, TM240 ATAM, without neutral conductor protection*** With adjustable overload protection $I_r$ and adjustable short-circuit protection $I_i$ | | | | | | | | | |
| | | **Connection with box terminal** | | | | | | | |
| 16 | | 3VA1196-4EF46-0AA0 | | | 3VA1196-5EF46-0AA0 | | | 3VA1196-6EF46-0AA0 | |
| 20 | | 3VA1120-4EF46-0AA0 | | | 3VA1120-5EF46-0AA0 | | | 3VA1120-6EF46-0AA0 | |
| 25 | | 3VA1125-4EF46-0AA0 | | | 3VA1125-5EF46-0AA0 | | | 3VA1125-6EF46-0AA0 | |
| 32 | | 3VA1132-4EF46-0AA0 | | | 3VA1132-5EF46-0AA0 | | | 3VA1132-6EF46-0AA0 | |
| 40 | | 3VA1140-4EF46-0AA0 | | | 3VA1140-5EF46-0AA0 | | | 3VA1140-6EF46-0AA0 | |
| 50 | | 3VA1150-4EF46-0AA0 | | | 3VA1150-5EF46-0AA0 | | | 3VA1150-6EF46-0AA0 | |
| 63 | | 3VA1163-4EF46-0AA0 | | | 3VA1163-5EF46-0AA0 | | | 3VA1163-6EF46-0AA0 | |
| 80 | | 3VA1180-4EF46-0AA0 | | | 3VA1180-5EF46-0AA0 | | | 3VA1180-6EF46-0AA0 | |
| 100 | | 3VA1110-4EF46-0AA0 | | | 3VA1110-5EF46-0AA0 | | | 3VA1110-6EF46-0AA0 | |
| 125 | | 3VA1112-4EF46-0AA0 | | | 3VA1112-5EF46-0AA0 | | | 3VA1112-6EF46-0AA0 | |
| 160 | | 3VA1116-4EF46-0AA0 | | | 3VA1116-5EF46-0AA0 | | | 3VA1116-6EF46-0AA0 | |
| | | **Connection with lug terminal** | | | | | | | |
| 16 | | 3VA1196-4EF42-0AA0 | | | 3VA1196-5EF42-0AA0 | | | 3VA1196-6EF42-0AA0 | |
| 20 | | 3VA1120-4EF42-0AA0 | | | 3VA1120-5EF42-0AA0 | | | 3VA1120-6EF42-0AA0 | |
| 25 | | 3VA1125-4EF42-0AA0 | | | 3VA1125-5EF42-0AA0 | | | 3VA1125-6EF42-0AA0 | |
| 32 | | 3VA1132-4EF42-0AA0 | | | 3VA1132-5EF42-0AA0 | | | 3VA1132-6EF42-0AA0 | |
| 40 | | 3VA1140-4EF42-0AA0 | | | 3VA1140-5EF42-0AA0 | | | 3VA1140-6EF42-0AA0 | |
| 50 | | 3VA1150-4EF42-0AA0 | | | 3VA1150-5EF42-0AA0 | | | 3VA1150-6EF42-0AA0 | |
| 63 | | 3VA1163-4EF42-0AA0 | | | 3VA1163-5EF42-0AA0 | | | 3VA1163-6EF42-0AA0 | |
| 80 | | 3VA1180-4EF42-0AA0 | | | 3VA1180-5EF42-0AA0 | | | 3VA1180-6EF42-0AA0 | |
| 100 | | 3VA1110-4EF42-0AA0 | | | 3VA1110-5EF42-0AA0 | | | 3VA1110-6EF42-0AA0 | |
| 125 | | 3VA1112-4EF42-0AA0 | | | 3VA1112-5EF42-0AA0 | | | 3VA1112-6EF42-0AA0 | |
| 160 | | 3VA1116-4EF42-0AA0 | | | 3VA1116-5EF42-0AA0 | | | 3VA1116-6EF42-0AA0 | |
| 160 | | 3VA1216-4EF42-0AA0 | | | 3VA1216-5EF42-0AA0 | | | 3VA1216-6EF42-0AA0 | |
| 200 | | 3VA1220-4EF42-0AA0 | | | 3VA1220-5EF42-0AA0 | | | 3VA1220-6EF42-0AA0 | |
| 250 | | 3VA1225-4EF42-0AA0 | | | 3VA1225-5EF42-0AA0 | | | 3VA1225-6EF42-0AA0 | |
| ***Line protection, TM240 ATAM, 50 % neutral conductor protection*** With adjustable overload protection $I_r$ and adjustable short-circuit protection $I_i$ | | | | | | | | | |
| | | **Connection with box terminal** | | | | | | | |
| 100 | | 3VA1110-4FF46-0AA0 | | | 3VA1110-5FF46-0AA0 | | | 3VA1110-6FF46-0AA0 | |
| 125 | | 3VA1112-4FF46-0AA0 | | | 3VA1112-5FF46-0AA0 | | | 3VA1112-6FF46-0AA0 | |
| 160 | | 3VA1116-4FF46-0AA0 | | | 3VA1116-5FF46-0AA0 | | | 3VA1116-6FF46-0AA0 | |
| | | **Connection with lug terminal** | | | | | | | |
| 100 | | 3VA1110-4FF42-0AA0 | | | 3VA1110-5FF42-0AA0 | | | 3VA1110-6FF42-0AA0 | |
| 125 | | 3VA1112-4FF42-0AA0 | | | 3VA1112-5FF42-0AA0 | | | 3VA1112-6FF42-0AA0 | |
| 160 | | 3VA1116-4FF42-0AA0 | | | 3VA1116-5FF42-0AA0 | | | 3VA1116-6FF42-0AA0 | |
| 160 | | 3VA1216-4FF42-0AA0 | | | 3VA1216-5FF42-0AA0 | | | 3VA1216-6FF42-0AA0 | |
| 200 | | 3VA1220-4FF42-0AA0 | | | 3VA1220-5FF42-0AA0 | | | 3VA1220-6FF42-0AA0 | |
| 250 | | 3VA1225-4FF42-0AA0 | | | 3VA1225-5FF42-0AA0 | | | 3VA1225-6FF42-0AA0 | |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VA1 Molded Case Circuit Breakers up to 250 A, IEC NEW





PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

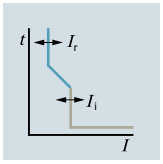


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|
| | | A | A | A | | | |

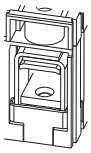
### 4-pole, fixed-mounted, 3VA11/3VA12, up to 250 A
### Thermal-magnetic trip unit




I201_19035

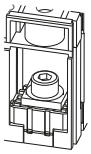



***Line protection, TM240 ATAM, 100 % neutral conductor protection***
With adjustable overload protection $I_r$ and adjustable short-circuit protection $I_i$



**Connection with box terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 11 ... 16 | 160 ... 320 | 3VA1196-3GF46-0AA0 |
| | 20 | 14 ... 20 | 160 ... 320 | 3VA1120-3GF46-0AA0 |
| | 25 | 18 ... 25 | 160 ... 320 | 3VA1125-3GF46-0AA0 |
| | 32 | 16 ... 32 | 160 ... 320 | 3VA1132-3GF46-0AA0 |
| | 40 | 28 ... 40 | 200 ... 400 | 3VA1140-3GF46-0AA0 |
| | 50 | 35 ... 50 | 250 ... 500 | 3VA1150-3GF46-0AA0 |
| | 63 | 44 ... 63 | 315 ... 630 | 3VA1163-3GF46-0AA0 |
| | 80 | 56 ... 80 | 400 ... 800 | 3VA1180-3GF46-0AA0 |
| | 100 | 70 ... 100 | 500 ... 1000 | 3VA1110-3GF46-0AA0 |
| | 125 | 88 ... 125 | 625 ... 1250 | 3VA1112-3GF46-0AA0 |
| | 160 | 112 ... 160 | 800 ... 1600 | 3VA1116-3GF46-0AA0 |



**Connection with lug terminal**

| | | | | |
|---|---|---|---|---|
| 3VA11 | 16 | 11 ... 16 | 160 ... 320 | 3VA1196-3GF42-0AA0 |
| | 20 | 14 ... 20 | 160 ... 320 | 3VA1120-3GF42-0AA0 |
| | 25 | 18 ... 25 | 160 ... 320 | 3VA1125-3GF42-0AA0 |
| | 32 | 16 ... 32 | 160 ... 320 | 3VA1132-3GF42-0AA0 |
| | 40 | 28 ... 40 | 200 ... 400 | 3VA1140-3GF42-0AA0 |
| | 50 | 35 ... 50 | 250 ... 500 | 3VA1150-3GF42-0AA0 |
| | 63 | 44 ... 63 | 315 ... 630 | 3VA1163-3GF42-0AA0 |
| | 80 | 56 ... 80 | 400 ... 800 | 3VA1180-3GF42-0AA0 |
| | 100 | 70 ... 100 | 500 ... 1000 | 3VA1110-3GF42-0AA0 |
| | 125 | 88 ... 125 | 625 ... 1250 | 3VA1112-3GF42-0AA0 |
| | 160 | 112 ... 160 | 800 ... 1600 | 3VA1116-3GF42-0AA0 |
| 3VA12 | 160 | 112 ... 160 | 800 ... 1600 | -- |
| | 200 | 140 ... 200 | 1000 ... 2000 | -- |
| | 250 | 175 ... 250 | 1250 ... 2500 | -- |



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | **$I_{cu}$ to 36 kA at 415 V, standard breaking capacity S** (S) See "Overview", p. 2/6 and 2/7 | | DT | **$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M** (M) See "Overview", p. 2/6 and 2/7 | | DT | **$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H** (H) See "Overview", p. 2/6 and 2/7 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | Article No. www.siemens.com/product?Article No. | Basic price per PU |
| A | | | | | | | | | |
| ***Line protection, TM240 ATAM, 100 % neutral conductor protection*** With adjustable overload protection $I_r$ and adjustable short-circuit protection $I_i$ | | | | | | | | | |
| | | **Connection with box terminal** | | | | | | | |
| 16 | | 3VA1196-4GF46-0AA0 | | | 3VA1196-5GF46-0AA0 | | | 3VA1196-6GF46-0AA0 | |
| 20 | | 3VA1120-4GF46-0AA0 | | | 3VA1120-5GF46-0AA0 | | | 3VA1120-6GF46-0AA0 | |
| 25 | | 3VA1125-4GF46-0AA0 | | | 3VA1125-5GF46-0AA0 | | | 3VA1125-6GF46-0AA0 | |
| 32 | | 3VA1132-4GF46-0AA0 | | | 3VA1132-5GF46-0AA0 | | | 3VA1132-6GF46-0AA0 | |
| 40 | | 3VA1140-4GF46-0AA0 | | | 3VA1140-5GF46-0AA0 | | | 3VA1140-6GF46-0AA0 | |
| 50 | | 3VA1150-4GF46-0AA0 | | | 3VA1150-5GF46-0AA0 | | | 3VA1150-6GF46-0AA0 | |
| 63 | | 3VA1163-4GF46-0AA0 | | | 3VA1163-5GF46-0AA0 | | | 3VA1163-6GF46-0AA0 | |
| 80 | | 3VA1180-4GF46-0AA0 | | | 3VA1180-5GF46-0AA0 | | | 3VA1180-6GF46-0AA0 | |
| 100 | | 3VA1110-4GF46-0AA0 | | | 3VA1110-5GF46-0AA0 | | | 3VA1110-6GF46-0AA0 | |
| 125 | | 3VA1112-4GF46-0AA0 | | | 3VA1112-5GF46-0AA0 | | | 3VA1112-6GF46-0AA0 | |
| 160 | | 3VA1116-4GF46-0AA0 | | | 3VA1116-5GF46-0AA0 | | | 3VA1116-6GF46-0AA0 | |
| | | **Connection with lug terminal** | | | | | | | |
| 16 | | 3VA1196-4GF42-0AA0 | | | 3VA1196-5GF42-0AA0 | | | 3VA1196-6GF42-0AA0 | |
| 20 | | 3VA1120-4GF42-0AA0 | | | 3VA1120-5GF42-0AA0 | | | 3VA1120-6GF42-0AA0 | |
| 25 | | 3VA1125-4GF42-0AA0 | | | 3VA1125-5GF42-0AA0 | | | 3VA1125-6GF42-0AA0 | |
| 32 | | 3VA1132-4GF42-0AA0 | | | 3VA1132-5GF42-0AA0 | | | 3VA1132-6GF42-0AA0 | |
| 40 | | 3VA1140-4GF42-0AA0 | | | 3VA1140-5GF42-0AA0 | | | 3VA1140-6GF42-0AA0 | |
| 50 | | 3VA1150-4GF42-0AA0 | | | 3VA1150-5GF42-0AA0 | | | 3VA1150-6GF42-0AA0 | |
| 63 | | 3VA1163-4GF42-0AA0 | | | 3VA1163-5GF42-0AA0 | | | 3VA1163-6GF42-0AA0 | |
| 80 | | 3VA1180-4GF42-0AA0 | | | 3VA1180-5GF42-0AA0 | | | 3VA1180-6GF42-0AA0 | |
| 100 | | 3VA1110-4GF42-0AA0 | | | 3VA1110-5GF42-0AA0 | | | 3VA1110-6GF42-0AA0 | |
| 125 | | 3VA1112-4GF42-0AA0 | | | 3VA1112-5GF42-0AA0 | | | 3VA1112-6GF42-0AA0 | |
| 160 | | 3VA1116-4GF42-0AA0 | | | 3VA1116-5GF42-0AA0 | | | 3VA1116-6GF42-0AA0 | |
| 160 | | 3VA1216-4GF42-0AA0 | | | 3VA1216-5GF42-0AA0 | | | 3VA1216-6GF42-0AA0 | |
| 200 | | 3VA1220-4GF42-0AA0 | | | 3VA1220-5GF42-0AA0 | | | 3VA1220-6GF42-0AA0 | |
| 250 | | 3VA1225-4GF42-0AA0 | | | 3VA1225-5GF42-0AA0 | | | 3VA1225-6GF42-0AA0 | |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VA1 Molded Case Circuit Breakers up to 250 A, IEC NEW

### Starter protection

PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

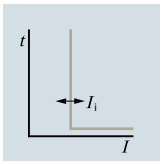




| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instanta-neous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|
| | | A | A | A | | | |

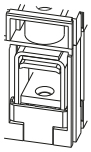
**3-pole, fixed-mounted, 3VA11/3VA12, up to 200 A**
**Magnetic trip unit**



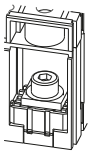

***Starter protection, TM120M AM***
With adjustable short-circuit protection $I_i$

**Connection with box terminal**



| | | | | |
|---|---|---|---|---|
| 3VA11 | 32 | -- | 220 ... 510 | 3VA1132-5MH36-0AA0 |
| | 40 | -- | 280 ... 640 | 3VA1140-5MH36-0AA0 |
| | 50 | -- | 350 ... 800 | 3VA1150-5MH36-0AA0 |
| | 63 | -- | 440 ... 1010 | 3VA1163-5MH36-0AA0 |
| | 80 | -- | 560 ... 1280 | 3VA1180-5MH36-0AA0 |
| | 100 | -- | 700 ... 1600 | 3VA1110-5MH36-0AA0 |
| | 125 | -- | 875 ... 2000 | 3VA1112-5MH36-0AA0 |

**Connection with lug terminal**



| | | | | |
|---|---|---|---|---|
| 3VA11 | 32 | -- | 220 ... 510 | 3VA1132-5MH32-0AA0 |
| | 40 | -- | 280 ... 640 | 3VA1140-5MH32-0AA0 |
| | 50 | -- | 350 ... 800 | 3VA1150-5MH32-0AA0 |
| | 63 | -- | 440 ... 1010 | 3VA1163-5MH32-0AA0 |
| | 80 | -- | 560 ... 1280 | 3VA1180-5MH32-0AA0 |
| | 100 | -- | 700 ... 1600 | 3VA1110-5MH32-0AA0 |
| | 125 | -- | 875 ... 2000 | 3VA1112-5MH32-0AA0 |
| 3VA12 | 160 | -- | 1120 ... 2560 | 3VA1216-5MH32-0AA0 |
| | 200 | -- | 1200 ... 2800 | 3VA1220-5MH32-0AA0 |



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | **$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H** (H) See "Overview", p. 2/6 and 2/7 |
|---|---|---|
| | | Article No. www.siemens.com/product?Article No. — Basic price per PU |
| A | | |

***Starter protection, TM120M AM***
With adjustable short-circuit protection $I_i$

| | **Connection with box terminal** |
|---|---|
| 32 | **3VA1132-6MH36-0AA0** |
| 40 | **3VA1140-6MH36-0AA0** |
| 50 | **3VA1150-6MH36-0AA0** |
| 63 | **3VA1163-6MH36-0AA0** |
| 80 | **3VA1180-6MH36-0AA0** |
| 100 | **3VA1110-6MH36-0AA0** |
| 125 | **3VA1112-6MH36-0AA0** |
| | **Connection with lug terminal** |
| 32 | **3VA1132-6MH32-0AA0** |
| 40 | **3VA1140-6MH32-0AA0** |
| 50 | **3VA1150-6MH32-0AA0** |
| 63 | **3VA1163-6MH32-0AA0** |
| 80 | **3VA1180-6MH32-0AA0** |
| 100 | **3VA1110-6MH32-0AA0** |
| 125 | **3VA1112-6MH32-0AA0** |
| 160 | **3VA1216-6MH32-0AA0** |
| 200 | **3VA1220-6MH32-0AA0** |

*** You can order this quantity or a multiple thereof.**

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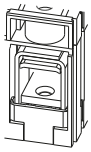
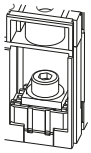
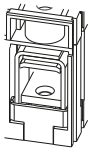
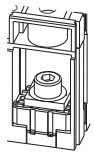


2

## Selection and ordering data

PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB



| Connection technology | Type | Rated uninterrupted current $I_u$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instanta-neous short-circuit protection "I" $I_i$ | DT | Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|
| | | A | A | A | | | |
| **3-pole, fixed-mounted, 3VA11/3VA12, up to 250 A Without trip unit** | | | | | | | |
| ***Switch disconnector without SD100 trip unit*** | | | | | | | |
|  **Connection with box terminal** | 3VA11 | 63 | -- | -- | | 3VA1163-1AA36-0AA0 | |
| | | 100 | -- | -- | | 3VA1110-1AA36-0AA0 | |
| | | 125 | -- | -- | | 3VA1112-1AA36-0AA0 | |
| | | 160 | -- | -- | | 3VA1116-1AA36-0AA0 | |
|  **Connection with lug terminal** | 3VA11 | 63 | -- | -- | | 3VA1163-1AA32-0AA0 | |
| | | 100 | -- | -- | | 3VA1110-1AA32-0AA0 | |
| | | 125 | -- | -- | | 3VA1112-1AA32-0AA0 | |
| | | 160 | -- | -- | | 3VA1116-1AA32-0AA0 | |
| | 3VA12 | 250 | -- | -- | | 3VA1225-1AA32-0AA0 | |
| **4-pole, fixed-mounted, 3VA11/3VA12, up to 250 A Without trip unit** | | | | | | | |
| ***Switch disconnector without SD100 trip unit*** | | | | | | | |
|  **Connection with box terminal** | 3VA11 | 63 | -- | -- | | 3VA1163-1AA46-0AA0 | |
| | | 100 | -- | -- | | 3VA1110-1AA46-0AA0 | |
| | | 125 | -- | -- | | 3VA1112-1AA46-0AA0 | |
| | | 160 | -- | -- | | 3VA1116-1AA46-0AA0 | |
|  **Connection with lug terminal** | 3VA11 | 63 | -- | -- | | 3VA1163-1AA42-0AA0 | |
| | | 100 | -- | -- | | 3VA1110-1AA42-0AA0 | |
| | | 125 | -- | -- | | 3VA1112-1AA42-0AA0 | |
| | | 160 | -- | -- | | 3VA1116-1AA42-0AA0 | |
| | 3VA12 | 250 | -- | -- | | 3VA1225-1AA42-0AA0 | |



* You can order this quantity or a multiple thereof.

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Note

You will find the 3VA2 molded case circuit breakers up to 630 A, IEC from page 2/42 onwards.

*** You can order this quantity or a multiple thereof.**

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2

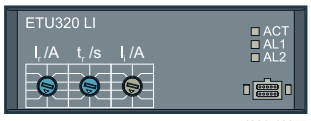
## Selection and ordering data

PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

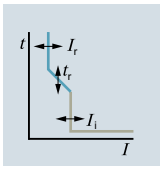


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | S function (short-time delayed short-circuit protection "S") $I_{sd}$ | Operating current of the instanta-neous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|---|
| | | A | A | A | A | | | |

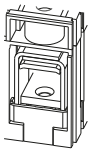
### 3-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A
### Electronic trip unit




I201_18857

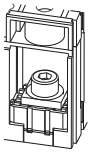



***Line protection, ETU320 LI***
With adjustable overload protection $I_r$ and adjustable instantaneous short-circuit protection $I_i$



**Connection with box terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | -- | 38 ... 300 | 3VA2025-5HL36-0AA0 |
| | 40 | 16 ... 40 | -- | 60 ... 480 | 3VA2040-5HL36-0AA0 |
| | 63 | 25 ... 63 | -- | 95 ... 756 | 3VA2063-5HL36-0AA0 |
| | 100 | 40 ... 100 | -- | 150 ... 1200 | 3VA2010-5HL36-0AA0 |
| 3VA21 | 25 | 10 ... 25 | -- | 38 ... 300 | 3VA2125-5HL36-0AA0 |
| | 40 | 16 ... 40 | -- | 60 ... 480 | 3VA2140-5HL36-0AA0 |
| | 63 | 25 ... 63 | -- | 95 ... 756 | 3VA2163-5HL36-0AA0 |
| | 100 | 40 ... 100 | -- | 150 ... 1200 | 3VA2110-5HL36-0AA0 |
| | 160 | 63 ... 160 | -- | 240 ... 1600 | 3VA2116-5HL36-0AA0 |



**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | -- | 38 ... 300 | 3VA2025-5HL32-0AA0 |
| | 40 | 16 ... 40 | -- | 60 ... 480 | 3VA2040-5HL32-0AA0 |
| | 63 | 25 ... 63 | -- | 95 ... 756 | 3VA2063-5HL32-0AA0 |
| | 100 | 40 ... 100 | -- | 150 ... 1200 | 3VA2010-5HL32-0AA0 |
| 3VA21 | 25 | 10 ... 25 | -- | 38 ... 300 | 3VA2125-5HL32-0AA0 |
| | 40 | 16 ... 40 | -- | 60 ... 480 | 3VA2140-5HL32-0AA0 |
| | 63 | 25 ... 63 | -- | 95 ... 756 | 3VA2163-5HL32-0AA0 |
| | 100 | 40 ... 100 | -- | 150 ... 1200 | 3VA2110-5HL32-0AA0 |
| | 160 | 63 ... 160 | -- | 240 ... 1600 | 3VA2116-5HL32-0AA0 |
| 3VA22 | 160 | 63 ... 160 | -- | 240 ... 1920 | 3VA2216-5HL32-0AA0 |
| | 250 | 100 ... 250 | -- | 375 ... 2500 | 3VA2225-5HL32-0AA0 |
| 3VA23 | 250 | 100 ... 250 | -- | 375 ... 3000 | 3VA2325-5HL32-0AA0 |
| | 400 | 160 ... 400 | -- | 600 ... 4000 | 3VA2340-5HL32-0AA0 |
| 3VA24 | 400 | 160 ... 400 | -- | 600 ... 4800[1)] | 3VA2440-5HL32-0AA0 |
| | 630 | 250 ... 630 | -- | 945 ... 5670 | 3VA2463-5HL32-0AA0 |

1) At breaking capacity L 4400 A



* You can order this quantity or a multiple thereof.

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2

PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 | | DT | $I_{cu}$ up to 110 kA at 415 V, very high breaking capacity C (C) See "Overview", p. 2/6 and 2/7 | | DT | $I_{cu}$ up to 150 kA at 415 V, extremely high breaking capacity L (L) See "Overview", p. 2/6 and 2/7 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | Article No. www.siemens.com/product?Article No. | Basic price per PU |
| A | | | | | | | | | |
| ***Line protection, ETU320 LI*** With adjustable overload protection $I_r$ and adjustable instantaneous short-circuit protection $I_i$ | | | | | | | | | |
| | | **Connection with box terminal** | | | | | | | |
| 25 | | 3VA2025-6HL36-0AA0 | | | 3VA2025-7HL36-0AA0 | | | 3VA2025-8HL36-0AA0 | |
| 40 | | 3VA2040-6HL36-0AA0 | | | 3VA2040-7HL36-0AA0 | | | 3VA2040-8HL36-0AA0 | |
| 63 | | 3VA2063-6HL36-0AA0 | | | 3VA2063-7HL36-0AA0 | | | 3VA2063-8HL36-0AA0 | |
| 100 | | 3VA2010-6HL36-0AA0 | | | 3VA2010-7HL36-0AA0 | | | 3VA2010-8HL36-0AA0 | |
| 25 | | 3VA2125-6HL36-0AA0 | | | 3VA2125-7HL36-0AA0 | | | 3VA2125-8HL36-0AA0 | |
| 40 | | 3VA2140-6HL36-0AA0 | | | 3VA2140-7HL36-0AA0 | | | 3VA2140-8HL36-0AA0 | |
| 63 | | 3VA2163-6HL36-0AA0 | | | 3VA2163-7HL36-0AA0 | | | 3VA2163-8HL36-0AA0 | |
| 100 | | 3VA2110-6HL36-0AA0 | | | 3VA2110-7HL36-0AA0 | | | 3VA2110-8HL36-0AA0 | |
| 160 | | 3VA2116-6HL36-0AA0 | | | 3VA2116-7HL36-0AA0 | | | 3VA2116-8HL36-0AA0 | |
| | | **Connection with lug terminal** | | | | | | | |
| 25 | | 3VA2025-6HL32-0AA0 | | | 3VA2025-7HL32-0AA0 | | | 3VA2025-8HL32-0AA0 | |
| 40 | | 3VA2040-6HL32-0AA0 | | | 3VA2040-7HL32-0AA0 | | | 3VA2040-8HL32-0AA0 | |
| 63 | | 3VA2063-6HL32-0AA0 | | | 3VA2063-7HL32-0AA0 | | | 3VA2063-8HL32-0AA0 | |
| 100 | | 3VA2010-6HL32-0AA0 | | | 3VA2010-7HL32-0AA0 | | | 3VA2010-8HL32-0AA0 | |
| 25 | | 3VA2125-6HL32-0AA0 | | | 3VA2125-7HL32-0AA0 | | | 3VA2125-8HL32-0AA0 | |
| 40 | | 3VA2140-6HL32-0AA0 | | | 3VA2140-7HL32-0AA0 | | | 3VA2140-8HL32-0AA0 | |
| 63 | | 3VA2163-6HL32-0AA0 | | | 3VA2163-7HL32-0AA0 | | | 3VA2163-8HL32-0AA0 | |
| 100 | | 3VA2110-6HL32-0AA0 | | | 3VA2110-7HL32-0AA0 | | | 3VA2110-8HL32-0AA0 | |
| 160 | | 3VA2116-6HL32-0AA0 | | | 3VA2116-7HL32-0AA0 | | | 3VA2116-8HL32-0AA0 | |
| 160 | | 3VA2216-6HL32-0AA0 | | | 3VA2216-7HL32-0AA0 | | | 3VA2216-8HL32-0AA0 | |
| 250 | | 3VA2225-6HL32-0AA0 | | | 3VA2225-7HL32-0AA0 | | | 3VA2225-8HL32-0AA0 | |
| 250 | | 3VA2325-6HL32-0AA0 | | | 3VA2325-7HL32-0AA0 | | | 3VA2325-8HL32-0AA0 | |
| 400 | | 3VA2340-6HL32-0AA0 | | | 3VA2340-7HL32-0AA0 | | | 3VA2340-8HL32-0AA0 | |
| 400 | | 3VA2440-6HL32-0AA0 | | | 3VA2440-7HL32-0AA0 | | | 3VA2440-8HL32-0AA0 | |
| 630 | | 3VA2463-6HL32-0AA0 | | | 3VA2463-7HL32-0AA0 | | | 3VA2463-8HL32-0AA0 | |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VA2 Molded Case Circuit Breakers up to 630 A, IEC NEW

### Line protection

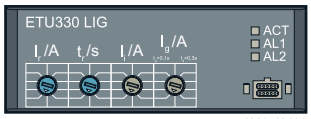
PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB



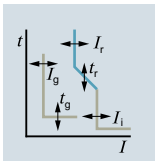


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | Ground-fault protection G $I_g$ | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|---|
| | | A | A | A | A | | | |

### 3-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A Electronic trip unit

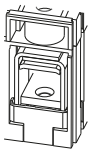



I201_18426



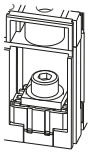

***Line protection, ETU330 LIG***

With adjustable overload protection $I_r$, adjustable instantaneous short-circuit protection $I_i$ and adjustable ground-fault protection $I_g$



**Connection with box terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 38 ... 300 | 15 ... 25 | 3VA2025-5HM36-0AA0 |
| | 40 | 16 ... 40 | 60 ... 480 | 16 ... 40 | 3VA2040-5HM36-0AA0 |
| | 63 | 25 ... 63 | 95 ... 756 | 16 ... 63 | 3VA2063-5HM36-0AA0 |
| | 100 | 40 ... 100 | 150 ... 1200 | 20 ... 100 | 3VA2010-5HM36-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 38 ... 300 | 15 ... 25 | 3VA2125-5HM36-0AA0 |
| | 40 | 16 ... 40 | 60 ... 480 | 16 ... 40 | 3VA2140-5HM36-0AA0 |
| | 63 | 25 ... 63 | 95 ... 756 | 16 ... 63 | 3VA2163-5HM36-0AA0 |
| | 100 | 40 ... 100 | 150 ... 1200 | 20 ... 100 | 3VA2110-5HM36-0AA0 |
| | 160 | 63 ... 160 | 240 ... 1600 | 32 ... 160 | 3VA2116-5HM36-0AA0 |



**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 38 ... 300 | 15 ... 25 | 3VA2025-5HM32-0AA0 |
| | 40 | 16 ... 40 | 60 ... 480 | 16 ... 40 | 3VA2040-5HM32-0AA0 |
| | 63 | 25 ... 63 | 95 ... 756 | 16 ... 63 | 3VA2063-5HM32-0AA0 |
| | 100 | 40 ... 100 | 150 ... 1200 | 20 ... 100 | 3VA2010-5HM32-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 38 ... 300 | 15 ... 25 | 3VA2125-5HM32-0AA0 |
| | 40 | 16 ... 40 | 60 ... 480 | 16 ... 40 | 3VA2140-5HM32-0AA0 |
| | 63 | 25 ... 63 | 95 ... 756 | 16 ... 63 | 3VA2163-5HM32-0AA0 |
| | 100 | 40 ... 100 | 150 ... 1200 | 20 ... 100 | 3VA2110-5HM32-0AA0 |
| | 160 | 63 ... 160 | 240 ... 1600 | 32 ... 160 | 3VA2116-5HM32-0AA0 |
| 3VA22 | 160 | 63 ... 160 | 240 ... 1920 | 32 ... 160 | 3VA2216-5HM32-0AA0 |
| | 250 | 100 ... 250 | 375 ... 2500 | 50 ... 250 | 3VA2225-5HM32-0AA0 |
| 3VA23 | 250 | 100 ... 250 | 375 ... 3000 | 50 ... 250 | 3VA2325-5HM32-0AA0 |
| | 400 | 160 ... 400 | 600 ... 4000 | 80 ... 400 | 3VA2340-5HM32-0AA0 |
| 3VA24 | 400 | 160 ... 400 | 600 ... 4800[1)] | 80 ... 400 | 3VA2440-5HM32-0AA0 |
| | 630 | 250 ... 630 | 945 ... 5670 | 126 ... 630 | 3VA2463-5HM32-0AA0 |

1) At breaking capacity L 4400 A



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 110 kA at 415 V, very high breaking capacity C (C) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 150 kA at 415 V, extremely high breaking capacity L (L) See "Overview", p. 2/6 and 2/7 |
|---|---|---|---|---|---|---|
| A | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU |
| ***Line protection, ETU330 LIG*** With adjustable overload protection $I_n$, adjustable instantaneous short-circuit protection $I_i$ and adjustable ground-fault protection $I_g$ | | | | | | |
| | | **Connection with box terminal** | | | | |
| 25 | | 3VA2025-6HM36-0AA0 | | 3VA2025-7HM36-0AA0 | | 3VA2025-8HM36-0AA0 |
| 40 | | 3VA2040-6HM36-0AA0 | | 3VA2040-7HM36-0AA0 | | 3VA2040-8HM36-0AA0 |
| 63 | | 3VA2063-6HM36-0AA0 | | 3VA2063-7HM36-0AA0 | | 3VA2063-8HM36-0AA0 |
| 100 | | 3VA2010-6HM36-0AA0 | | 3VA2010-7HM36-0AA0 | | 3VA2010-8HM36-0AA0 |
| 25 | | 3VA2125-6HM36-0AA0 | | 3VA2125-7HM36-0AA0 | | 3VA2125-8HM36-0AA0 |
| 40 | | 3VA2140-6HM36-0AA0 | | 3VA2140-7HM36-0AA0 | | 3VA2140-8HM36-0AA0 |
| 63 | | 3VA2163-6HM36-0AA0 | | 3VA2163-7HM36-0AA0 | | 3VA2163-8HM36-0AA0 |
| 100 | | 3VA2110-6HM36-0AA0 | | 3VA2110-7HM36-0AA0 | | 3VA2110-8HM36-0AA0 |
| 160 | | 3VA2116-6HM36-0AA0 | | 3VA2116-7HM36-0AA0 | | 3VA2116-8HM36-0AA0 |
| | | **Connection with lug terminal** | | | | |
| 25 | | 3VA2025-6HM32-0AA0 | | 3VA2025-7HM32-0AA0 | | 3VA2025-8HM32-0AA0 |
| 40 | | 3VA2040-6HM32-0AA0 | | 3VA2040-7HM32-0AA0 | | 3VA2040-8HM32-0AA0 |
| 63 | | 3VA2063-6HM32-0AA0 | | 3VA2063-7HM32-0AA0 | | 3VA2063-8HM32-0AA0 |
| 100 | | 3VA2010-6HM32-0AA0 | | 3VA2010-7HM32-0AA0 | | 3VA2010-8HM32-0AA0 |
| 25 | | 3VA2125-6HM32-0AA0 | | 3VA2125-7HM32-0AA0 | | 3VA2125-8HM32-0AA0 |
| 40 | | 3VA2140-6HM32-0AA0 | | 3VA2140-7HM32-0AA0 | | 3VA2140-8HM32-0AA0 |
| 63 | | 3VA2163-6HM32-0AA0 | | 3VA2163-7HM32-0AA0 | | 3VA2163-8HM32-0AA0 |
| 100 | | 3VA2110-6HM32-0AA0 | | 3VA2110-7HM32-0AA0 | | 3VA2110-8HM32-0AA0 |
| 160 | | 3VA2116-6HM32-0AA0 | | 3VA2116-7HM32-0AA0 | | 3VA2116-8HM32-0AA0 |
| 160 | | 3VA2216-6HM32-0AA0 | | 3VA2216-7HM32-0AA0 | | 3VA2216-8HM32-0AA0 |
| 250 | | 3VA2225-6HM32-0AA0 | | 3VA2225-7HM32-0AA0 | | 3VA2225-8HM32-0AA0 |
| 250 | | 3VA2325-6HM32-0AA0 | | 3VA2325-7HM32-0AA0 | | 3VA2325-8HM32-0AA0 |
| 400 | | 3VA2340-6HM32-0AA0 | | 3VA2340-7HM32-0AA0 | | 3VA2340-8HM32-0AA0 |
| 400 | | 3VA2440-6HM32-0AA0 | | 3VA2440-7HM32-0AA0 | | 3VA2440-8HM32-0AA0 |
| 630 | | 3VA2463-6HM32-0AA0 | | 3VA2463-7HM32-0AA0 | | 3VA2463-8HM32-0AA0 |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VA2 Molded Case Circuit Breakers up to 630 A, IEC NEW

### Line protection

PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

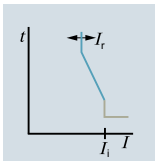




| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 | |
|---|---|---|---|---|---|---|---|
| | | A | A | A | | Article No. www.siemens.com/product?Article No. | Basic price per PU |

### 3-pole, fixed-mounted, 3VA21 to 3VA24, up to 630 A Electronic trip unit



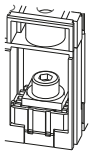

***Line protection, ETU340 ELISA***

With easily adjustable characteristic (characteristic form of a fuse)



**Connection with box terminal**

| | | | | |
|---|---|---|---|---|
| 3VA21 | 25 | 10 ... 25 | 375 | 3VA2125-5HK36-0AA0 |
| | 40 | 16 ... 40 | 600 | 3VA2140-5HK36-0AA0 |
| | 63 | 25 ... 63 | 945 | 3VA2163-5HK36-0AA0 |
| | 100 | 40 ... 100 | 1500 | 3VA2110-5HK36-0AA0 |



**Connection with lug terminal**

| | | | | |
|---|---|---|---|---|
| 3VA21 | 25 | 10 ... 25 | 375 | 3VA2125-5HK32-0AA0 |
| | 40 | 16 ... 40 | 600 | 3VA2140-5HK32-0AA0 |
| | 63 | 25 ... 63 | 945 | 3VA2163-5HK32-0AA0 |
| | 100 | 40 ... 100 | 1500 | 3VA2110-5HK32-0AA0 |
| 3VA22 | 160 | 63 ... 160 | 2400 | 3VA2216-5HK32-0AA0 |
| 3VA23 | 250 | 100 ... 250 | 3750 | 3VA2325-5HK32-0AA0 |
| 3VA24 | 400 | 160 ... 400 | 6000[1] | 3VA2440-5HK32-0AA0 |
| | 500 | 200 ... 500 | 7000 | 3VA2450-5HK32-0AA0 |
| | 630 | 250 ... 630 | 5670 | 3VA2463-5HK32-0AA0 |

[1] At breaking capacity L 4400 A



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 110 kA at 415 V, very high breaking capacity C (C) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 150 kA at 415 V, extremely high breaking capacity L (L) See "Overview", p. 2/6 and 2/7 |
|---|---|---|---|---|---|---|
| A | | Article No. www.siemens.com/product?Article No. / Basic price per PU | | Article No. www.siemens.com/product?Article No. / Basic price per PU | | Article No. www.siemens.com/product?Article No. / Basic price per PU |
| ***Line protection, ETU340 ELISA*** With easily adjustable characteristic (characteristic form of a fuse) | | | | | | |
| | | **Connection with box terminal** | | | | |
| 25 | | 3VA2125-6HK36-0AA0 | | 3VA2125-7HK36-0AA0 | | 3VA2125-8HK36-0AA0 |
| 40 | | 3VA2140-6HK36-0AA0 | | 3VA2140-7HK36-0AA0 | | 3VA2140-8HK36-0AA0 |
| 63 | | 3VA2163-6HK36-0AA0 | | 3VA2163-7HK36-0AA0 | | 3VA2163-8HK36-0AA0 |
| 100 | | 3VA2110-6HK36-0AA0 | | 3VA2110-7HK36-0AA0 | | 3VA2110-8HK36-0AA0 |
| | | **Connection with lug terminal** | | | | |
| 25 | | 3VA2125-6HK32-0AA0 | | 3VA2125-7HK32-0AA0 | | 3VA2125-8HK32-0AA0 |
| 40 | | 3VA2140-6HK32-0AA0 | | 3VA2140-7HK32-0AA0 | | 3VA2140-8HK32-0AA0 |
| 63 | | 3VA2163-6HK32-0AA0 | | 3VA2163-7HK32-0AA0 | | 3VA2163-8HK32-0AA0 |
| 100 | | 3VA2110-6HK32-0AA0 | | 3VA2110-7HK32-0AA0 | | 3VA2110-8HK32-0AA0 |
| 160 | | 3VA2216-6HK32-0AA0 | | 3VA2216-7HK32-0AA0 | | 3VA2216-8HK32-0AA0 |
| 250 | | 3VA2325-6HK32-0AA0 | | 3VA2325-7HK32-0AA0 | | 3VA2325-8HK32-0AA0 |
| 400 | | 3VA2440-6HK32-0AA0 | | 3VA2440-7HK32-0AA0 | | 3VA2440-8HK32-0AA0 |
| 500 | | 3VA2450-6HK32-0AA0 | | 3VA2450-7HK32-0AA0 | | 3VA2450-8HK32-0AA0 |
| 630 | | 3VA2463-6HK32-0AA0 | | 3VA2463-7HK32-0AA0 | | 3VA2463-8HK32-0AA0 |

*** You can order this quantity or a multiple thereof.**

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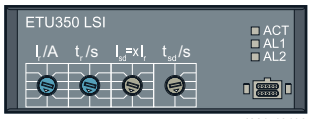


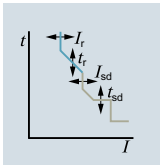
PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB



| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | S function (short-time delayed short-circuit protection "S") $I_{sd}$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 | |
|---|---|---|---|---|---|---|---|---|
| | | A | A | A | A | | Article No. www.siemens.com/product?Article No. | Basic price per PU |

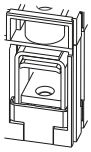
### 3-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A
### Electronic trip unit



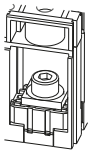

***Line and generator protection, ETU350 LSI***

With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and fixed instantaneous short-circuit protection $I_i$



**Connection with box terminal**

| | $I_r$ x ... | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 1.5 ... 10 | 300 | 3VA2025-5HN36-0AA0 |
| | 40 | 16 ... 40 | 1.5 ... 10 | 480 | 3VA2040-5HN36-0AA0 |
| | 63 | 25 ... 63 | 1.5 ... 10 | 756 | 3VA2063-5HN36-0AA0 |
| | 100 | 40 ... 100 | 1.5 ... 10 | 1200 | 3VA2010-5HN36-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 1.5 ... 10 | 300 | 3VA2125-5HN36-0AA0 |
| | 40 | 16 ... 40 | 1.5 ... 10 | 480 | 3VA2140-5HN36-0AA0 |
| | 63 | 25 ... 63 | 1.5 ... 10 | 756 | 3VA2163-5HN36-0AA0 |
| | 100 | 40 ... 100 | 1.5 ... 10 | 1200 | 3VA2110-5HN36-0AA0 |
| | 160 | 63 ... 160 | 1.5 ... 10 | 1600 | 3VA2116-5HN36-0AA0 |



**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 1.5 ... 10 | 300 | 3VA2025-5HN32-0AA0 |
| | 40 | 16 ... 40 | 1.5 ... 10 | 480 | 3VA2040-5HN32-0AA0 |
| | 63 | 25 ... 63 | 1.5 ... 10 | 756 | 3VA2063-5HN32-0AA0 |
| | 100 | 40 ... 100 | 1.5 ... 10 | 1200 | 3VA2010-5HN32-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 1.5 ... 10 | 300 | 3VA2125-5HN32-0AA0 |
| | 40 | 16 ... 40 | 1.5 ... 10 | 480 | 3VA2140-5HN32-0AA0 |
| | 63 | 25 ... 63 | 1.5 ... 10 | 756 | 3VA2163-5HN32-0AA0 |
| | 100 | 40 ... 100 | 1.5 ... 10 | 1200 | 3VA2110-5HN32-0AA0 |
| | 160 | 63 ... 160 | 1.5 ... 10 | 1600 | 3VA2116-5HN32-0AA0 |
| 3VA22 | 160 | 63 ... 160 | 1.5 ... 10 | 1920 | 3VA2216-5HN32-0AA0 |
| | 250 | 100 ... 250 | 1.5 ... 10 | 2500 | 3VA2225-5HN32-0AA0 |
| 3VA23 | 250 | 100 ... 250 | 1.5 ... 10 | 3000 | 3VA2325-5HN32-0AA0 |
| | 400 | 160 ... 400 | 1.5 ... 10 | 4000 | 3VA2340-5HN32-0AA0 |
| 3VA24 | 400 | 160 ... 400 | 1.5 ... 10 | 4800[1)] | 3VA2440-5HN32-0AA0 |
| | 630 | 250 ... 630 | 1.5 ... 9 | 5670 | 3VA2463-5HN32-0AA0 |

1) At breaking capacity L 4400 A



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 110 kA at 415 V, very high breaking capacity C (C) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 150 kA at 415 V, extremely high breaking capacity L (L) See "Overview", p. 2/6 and 2/7 |
|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. — Basic price per PU | | Article No. www.siemens.com/product?Article No. — Basic price per PU | | Article No. www.siemens.com/product?Article No. — Basic price per PU |
| A | | | | | | |

***Line and generator protection, ETU350 LSI***
With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and fixed instantaneous short-circuit protection $I_i$

| | | | | |
|---|---|---|---|---|
| | **Connection with box terminal** | | | |
| 25 | 3VA2025-6HN36-0AA0 | | 3VA2025-7HN36-0AA0 | 3VA2025-8HN36-0AA0 |
| 40 | 3VA2040-6HN36-0AA0 | | 3VA2040-7HN36-0AA0 | 3VA2040-8HN36-0AA0 |
| 63 | 3VA2063-6HN36-0AA0 | | 3VA2063-7HN36-0AA0 | 3VA2063-8HN36-0AA0 |
| 100 | 3VA2010-6HN36-0AA0 | | 3VA2010-7HN36-0AA0 | 3VA2010-8HN36-0AA0 |
| 25 | 3VA2125-6HN36-0AA0 | | 3VA2125-7HN36-0AA0 | 3VA2125-8HN36-0AA0 |
| 40 | 3VA2140-6HN36-0AA0 | | 3VA2140-7HN36-0AA0 | 3VA2140-8HN36-0AA0 |
| 63 | 3VA2163-6HN36-0AA0 | | 3VA2163-7HN36-0AA0 | 3VA2163-8HN36-0AA0 |
| 100 | 3VA2110-6HN36-0AA0 | | 3VA2110-7HN36-0AA0 | 3VA2110-8HN36-0AA0 |
| 160 | 3VA2116-6HN36-0AA0 | | 3VA2116-7HN36-0AA0 | 3VA2116-8HN36-0AA0 |
| | **Connection with lug terminal** | | | |
| 25 | 3VA2025-6HN32-0AA0 | | 3VA2025-7HN32-0AA0 | 3VA2025-8HN32-0AA0 |
| 40 | 3VA2040-6HN32-0AA0 | | 3VA2040-7HN32-0AA0 | 3VA2040-8HN32-0AA0 |
| 63 | 3VA2063-6HN32-0AA0 | | 3VA2063-7HN32-0AA0 | 3VA2063-8HN32-0AA0 |
| 100 | 3VA2010-6HN32-0AA0 | | 3VA2010-7HN32-0AA0 | 3VA2010-8HN32-0AA0 |
| 25 | 3VA2125-6HN32-0AA0 | | 3VA2125-7HN32-0AA0 | 3VA2125-8HN32-0AA0 |
| 40 | 3VA2140-6HN32-0AA0 | | 3VA2140-7HN32-0AA0 | 3VA2140-8HN32-0AA0 |
| 63 | 3VA2163-6HN32-0AA0 | | 3VA2163-7HN32-0AA0 | 3VA2163-8HN32-0AA0 |
| 100 | 3VA2110-6HN32-0AA0 | | 3VA2110-7HN32-0AA0 | 3VA2110-8HN32-0AA0 |
| 160 | 3VA2116-6HN32-0AA0 | | 3VA2116-7HN32-0AA0 | 3VA2116-8HN32-0AA0 |
| 160 | 3VA2216-6HN32-0AA0 | | 3VA2216-7HN32-0AA0 | 3VA2216-8HN32-0AA0 |
| 250 | 3VA2225-6HN32-0AA0 | | 3VA2225-7HN32-0AA0 | 3VA2225-8HN32-0AA0 |
| 250 | 3VA2325-6HN32-0AA0 | | 3VA2325-7HN32-0AA0 | 3VA2325-8HN32-0AA0 |
| 400 | 3VA2340-6HN32-0AA0 | | 3VA2340-7HN32-0AA0 | 3VA2340-8HN32-0AA0 |
| 400 | 3VA2440-6HN32-0AA0 | | 3VA2440-7HN32-0AA0 | 3VA2440-8HN32-0AA0 |
| 630 | 3VA2463-6HN32-0AA0 | | 3VA2463-7HN32-0AA0 | 3VA2463-8HN32-0AA0 |

*** You can order this quantity or a multiple thereof.**

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

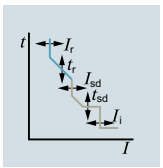


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | S function (short-time delayed short-circuit protection "S") $I_{sd}$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|---|
| | | A | A | A | A | | | |

### 3-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A
### Electronic trip unit

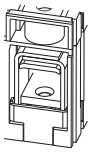



I201_18480



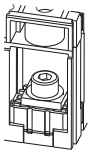

#### *Line and generator protection, with display, ETU550 LSI*

With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and adjustable instantaneous short-circuit protection $I_i$



**Connection with box terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5JP36-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5JP36-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5JP36-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5JP36-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5JP36-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5JP36-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5JP36-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5JP36-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5JP36-0AA0 |

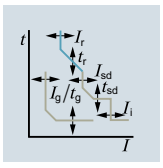


**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5JP32-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5JP32-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5JP32-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5JP32-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5JP32-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5JP32-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5JP32-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5JP32-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5JP32-0AA0 |
| 3VA22 | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1920 | 3VA2216-5JP32-0AA0 |
| | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 2500 | 3VA2225-5JP32-0AA0 |
| 3VA23 | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 3000 | 3VA2325-5JP32-0AA0 |
| | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 4000 | 3VA2340-5JP32-0AA0 |
| 3VA24 | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 6000[1)] | 3VA2440-5JP32-0AA0 |
| | 500 | 200 ... 500 | 300 ... 5000 | 750 ... 7000 | 3VA2450-5JP32-0AA0 |
| | 630 | 250 ... 630 | 378 ... 5670 | 945 ... 5670 | 3VA2463-5JP32-0AA0 |

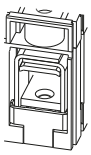



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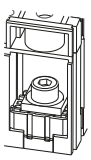

#### *Line and generator protection, with display, ETU560 LSIG*

With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$, adjustable instantaneous short-circuit protection $I_i$ and adjustable ground-fault protection $I_g$



**Connection with box terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5JQ36-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5JQ36-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5JQ36-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5JQ36-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5JQ36-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5JQ36-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5JQ36-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5JQ36-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5JQ36-0AA0 |



**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5JQ32-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5JQ32-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5JQ32-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5JQ32-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5JQ32-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5JQ32-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5JQ32-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5JQ32-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5JQ32-0AA0 |
| 3VA22 | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1920 | 3VA2216-5JQ32-0AA0 |
| | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 2500 | 3VA2225-5JQ32-0AA0 |
| 3VA23 | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 3000 | 3VA2325-5JQ32-0AA0 |
| | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 4000 | 3VA2340-5JQ32-0AA0 |
| 3VA24 | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 6000[1)] | 3VA2440-5JQ32-0AA0 |
| | 500 | 200 ... 500 | 300 ... 5000 | 750 ... 7000 | 3VA2450-5JQ32-0AA0 |
| | 630 | 250 ... 630 | 378 ... 5670 | 945 ... 5670 | 3VA2463-5JQ32-0AA0 |

[1)] At breaking capacity L 4400 A



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU | DT | $I_{cu}$ up to 110 kA at 415 V, very high breaking capacity C (C) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU | DT | $I_{cu}$ up to 150 kA at 415 V, extremely high breaking capacity L (L) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | | |
| ***Line and generator protection, with display, ETU550 LSI*** With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and adjustable instantaneous short-circuit protection $I_i$ | | | | | | | | | |
| | | **Connection with box terminal** | | | | | | | |
| 25 | | 3VA2025-6JP36-0AA0 | | | 3VA2025-7JP36-0AA0 | | | 3VA2025-8JP36-0AA0 | |
| 40 | | 3VA2040-6JP36-0AA0 | | | 3VA2040-7JP36-0AA0 | | | 3VA2040-8JP36-0AA0 | |
| 63 | | 3VA2063-6JP36-0AA0 | | | 3VA2063-7JP36-0AA0 | | | 3VA2063-8JP36-0AA0 | |
| 100 | | 3VA2010-6JP36-0AA0 | | | 3VA2010-7JP36-0AA0 | | | 3VA2010-8JP36-0AA0 | |
| 25 | | 3VA2125-6JP36-0AA0 | | | 3VA2125-7JP36-0AA0 | | | 3VA2125-8JP36-0AA0 | |
| 40 | | 3VA2140-6JP36-0AA0 | | | 3VA2140-7JP36-0AA0 | | | 3VA2140-8JP36-0AA0 | |
| 63 | | 3VA2163-6JP36-0AA0 | | | 3VA2163-7JP36-0AA0 | | | 3VA2163-8JP36-0AA0 | |
| 100 | | 3VA2110-6JP36-0AA0 | | | 3VA2110-7JP36-0AA0 | | | 3VA2110-8JP36-0AA0 | |
| 160 | | 3VA2116-6JP36-0AA0 | | | 3VA2116-7JP36-0AA0 | | | 3VA2116-8JP36-0AA0 | |
| | | **Connection with lug terminal** | | | | | | | |
| 25 | | 3VA2025-6JP32-0AA0 | | | 3VA2025-7JP32-0AA0 | | | 3VA2025-8JP32-0AA0 | |
| 40 | | 3VA2040-6JP32-0AA0 | | | 3VA2040-7JP32-0AA0 | | | 3VA2040-8JP32-0AA0 | |
| 63 | | 3VA2063-6JP32-0AA0 | | | 3VA2063-7JP32-0AA0 | | | 3VA2063-8JP32-0AA0 | |
| 100 | | 3VA2010-6JP32-0AA0 | | | 3VA2010-7JP32-0AA0 | | | 3VA2010-8JP32-0AA0 | |
| 25 | | 3VA2125-6JP32-0AA0 | | | 3VA2125-7JP32-0AA0 | | | 3VA2125-8JP32-0AA0 | |
| 40 | | 3VA2140-6JP32-0AA0 | | | 3VA2140-7JP32-0AA0 | | | 3VA2140-8JP32-0AA0 | |
| 63 | | 3VA2163-6JP32-0AA0 | | | 3VA2163-7JP32-0AA0 | | | 3VA2163-8JP32-0AA0 | |
| 100 | | 3VA2110-6JP32-0AA0 | | | 3VA2110-7JP32-0AA0 | | | 3VA2110-8JP32-0AA0 | |
| 160 | | 3VA2116-6JP32-0AA0 | | | 3VA2116-7JP32-0AA0 | | | 3VA2116-8JP32-0AA0 | |
| 160 | | 3VA2216-6JP32-0AA0 | | | 3VA2216-7JP32-0AA0 | | | 3VA2216-8JP32-0AA0 | |
| 250 | | 3VA2225-6JP32-0AA0 | | | 3VA2225-7JP32-0AA0 | | | 3VA2225-8JP32-0AA0 | |
| 250 | | 3VA2325-6JP32-0AA0 | | | 3VA2325-7JP32-0AA0 | | | 3VA2325-8JP32-0AA0 | |
| 400 | | 3VA2340-6JP32-0AA0 | | | 3VA2340-7JP32-0AA0 | | | 3VA2340-8JP32-0AA0 | |
| 400 | | 3VA2440-6JP32-0AA0 | | | 3VA2440-7JP32-0AA0 | | | 3VA2440-8JP32-0AA0 | |
| 500 | | 3VA2450-6JP32-0AA0 | | | 3VA2450-7JP32-0AA0 | | | -- | |
| 630 | | 3VA2463-6JP32-0AA0 | | | 3VA2463-7JP32-0AA0 | | | 3VA2463-8JP32-0AA0 | |
| ***Line and generator protection, with display, ETU560 LSIG*** With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$, adjustable instantaneous short-circuit protection $I_i$ and adjustable ground-fault protection $I_g$ | | | | | | | | | |
| | | **Connection with box terminal** | | | | | | | |
| 25 | | 3VA2025-6JQ36-0AA0 | | | 3VA2025-7JQ36-0AA0 | | | 3VA2025-8JQ36-0AA0 | |
| 40 | | 3VA2040-6JQ36-0AA0 | | | 3VA2040-7JQ36-0AA0 | | | 3VA2040-8JQ36-0AA0 | |
| 63 | | 3VA2063-6JQ36-0AA0 | | | 3VA2063-7JQ36-0AA0 | | | 3VA2063-8JQ36-0AA0 | |
| 100 | | 3VA2010-6JQ36-0AA0 | | | 3VA2010-7JQ36-0AA0 | | | 3VA2010-8JQ36-0AA0 | |
| 25 | | 3VA2125-6JQ36-0AA0 | | | 3VA2125-7JQ36-0AA0 | | | 3VA2125-8JQ36-0AA0 | |
| 40 | | 3VA2140-6JQ36-0AA0 | | | 3VA2140-7JQ36-0AA0 | | | 3VA2140-8JQ36-0AA0 | |
| 63 | | 3VA2163-6JQ36-0AA0 | | | 3VA2163-7JQ36-0AA0 | | | 3VA2163-8JQ36-0AA0 | |
| 100 | | 3VA2110-6JQ36-0AA0 | | | 3VA2110-7JQ36-0AA0 | | | 3VA2110-8JQ36-0AA0 | |
| 160 | | 3VA2116-6JQ36-0AA0 | | | 3VA2116-7JQ36-0AA0 | | | 3VA2116-8JQ36-0AA0 | |
| | | **Connection with lug terminal** | | | | | | | |
| 25 | | 3VA2025-6JQ32-0AA0 | | | 3VA2025-7JQ32-0AA0 | | | 3VA2025-8JQ32-0AA0 | |
| 40 | | 3VA2040-6JQ32-0AA0 | | | 3VA2040-7JQ32-0AA0 | | | 3VA2040-8JQ32-0AA0 | |
| 63 | | 3VA2063-6JQ32-0AA0 | | | 3VA2063-7JQ32-0AA0 | | | 3VA2063-8JQ32-0AA0 | |
| 100 | | 3VA2010-6JQ32-0AA0 | | | 3VA2010-7JQ32-0AA0 | | | 3VA2010-8JQ32-0AA0 | |
| 25 | | 3VA2125-6JQ32-0AA0 | | | 3VA2125-7JQ32-0AA0 | | | 3VA2125-8JQ32-0AA0 | |
| 40 | | 3VA2140-6JQ32-0AA0 | | | 3VA2140-7JQ32-0AA0 | | | 3VA2140-8JQ32-0AA0 | |
| 63 | | 3VA2163-6JQ32-0AA0 | | | 3VA2163-7JQ32-0AA0 | | | 3VA2163-8JQ32-0AA0 | |
| 100 | | 3VA2110-6JQ32-0AA0 | | | 3VA2110-7JQ32-0AA0 | | | 3VA2110-8JQ32-0AA0 | |
| 160 | | 3VA2116-6JQ32-0AA0 | | | 3VA2116-7JQ32-0AA0 | | | 3VA2116-8JQ32-0AA0 | |
| 160 | | 3VA2216-6JQ32-0AA0 | | | 3VA2216-7JQ32-0AA0 | | | 3VA2216-8JQ32-0AA0 | |
| 250 | | 3VA2225-6JQ32-0AA0 | | | 3VA2225-7JQ32-0AA0 | | | 3VA2225-8JQ32-0AA0 | |
| 250 | | 3VA2325-6JQ32-0AA0 | | | 3VA2325-7JQ32-0AA0 | | | 3VA2325-8JQ32-0AA0 | |
| 400 | | 3VA2340-6JQ32-0AA0 | | | 3VA2340-7JQ32-0AA0 | | | 3VA2340-8JQ32-0AA0 | |
| 400 | | 3VA2440-6JQ32-0AA0 | | | 3VA2440-7JQ32-0AA0 | | | 3VA2440-8JQ32-0AA0 | |
| 500 | | 3VA2450-6JQ32-0AA0 | | | 3VA2450-7JQ32-0AA0 | | | -- | |
| 630 | | 3VA2463-6JQ32-0AA0 | | | 3VA2463-7JQ32-0AA0 | | | 3VA2463-8JQ32-0AA0 | |

*** You can order this quantity or a multiple thereof.**

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

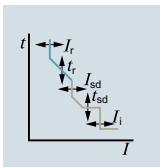


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | S function (short-time delayed short-circuit protection "S") $I_{sd}$ | Operating current of the instanta-neous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|---|
| | | A | A | A | A | | | |

### 3-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A
### Electronic trip unit

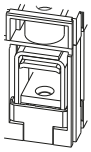



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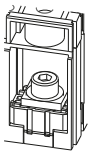

***Line and generator protection, with display, with metering function, ETU850 LSI***

With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and adjustable instantaneous short-circuit protection $I_i$



**Connection with box terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5KP36-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5KP36-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5KP36-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5KP36-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5KP36-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5KP36-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5KP36-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5KP36-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5KP36-0AA0 |

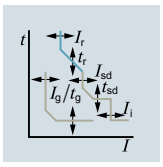


**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5KP32-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5KP32-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5KP32-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5KP32-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5KP32-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5KP32-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5KP32-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5KP32-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5KP32-0AA0 |
| 3VA22 | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1920 | 3VA2216-5KP32-0AA0 |
| | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 2500 | 3VA2225-5KP32-0AA0 |
| 3VA23 | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 3000 | 3VA2325-5KP32-0AA0 |
| | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 4000 | 3VA2340-5KP32-0AA0 |
| 3VA24 | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 6000[1)] | 3VA2440-5KP32-0AA0 |
| | 500 | 200 ... 500 | 300 ... 5000 | 750 ... 7000 | 3VA2450-5KP32-0AA0 |
| | 630 | 250 ... 630 | 378 ... 5670 | 945 ... 5670 | 3VA2463-5KP32-0AA0 |

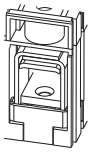



I201_18483



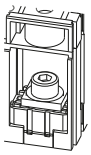

***Line and generator protection, with display, with metering function, ETU860 LSIG***

With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$, adjustable instantaneous short-circuit protection $I_i$ and adjustable ground-fault protection $I_g$



**Connection with box terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5KQ36-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5KQ36-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5KQ36-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5KQ36-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5KQ36-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5KQ36-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5KQ36-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5KQ36-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5KQ36-0AA0 |



**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5KQ32-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5KQ32-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5KQ32-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5KQ32-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5KQ32-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5KQ32-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5KQ32-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5KQ32-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5KQ32-0AA0 |
| 3VA22 | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1920 | 3VA2216-5KQ32-0AA0 |
| | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 2500 | 3VA2225-5KQ32-0AA0 |
| 3VA23 | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 3000 | 3VA2325-5KQ32-0AA0 |
| | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 4000 | 3VA2340-5KQ32-0AA0 |
| 3VA24 | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 6000[1)] | 3VA2440-5KQ32-0AA0 |
| | 500 | 200 ... 500 | 300 ... 5000 | 750 ... 7000 | 3VA2450-5KQ32-0AA0 |
| | 630 | 250 ... 630 | 378 ... 5670 | 945 ... 5670 | 3VA2463-5KQ32-0AA0 |

[1)] At breaking capacity L 4400 A



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU | DT | $I_{cu}$ up to 110 kA at 415 V, very high breaking capacity C (C) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU | DT | $I_{cu}$ up to 150 kA at 415 V, extremely high breaking capacity L (L) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | | |
| ***Line and generator protection, with display, with metering function, ETU850 LSI*** | | | | | | | | | |
| With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and adjustable instantaneous short-circuit protection $I_i$ | | | | | | | | | |
| | | **Connection with box terminal** | | | | | | | |
| 25 | | 3VA2025-6KP36-0AA0 | | | 3VA2025-7KP36-0AA0 | | | 3VA2025-8KP36-0AA0 | |
| 40 | | 3VA2040-6KP36-0AA0 | | | 3VA2040-7KP36-0AA0 | | | 3VA2040-8KP36-0AA0 | |
| 63 | | 3VA2063-6KP36-0AA0 | | | 3VA2063-7KP36-0AA0 | | | 3VA2063-8KP36-0AA0 | |
| 100 | | 3VA2010-6KP36-0AA0 | | | 3VA2010-7KP36-0AA0 | | | 3VA2010-8KP36-0AA0 | |
| 25 | | 3VA2125-6KP36-0AA0 | | | 3VA2125-7KP36-0AA0 | | | 3VA2125-8KP36-0AA0 | |
| 40 | | 3VA2140-6KP36-0AA0 | | | 3VA2140-7KP36-0AA0 | | | 3VA2140-8KP36-0AA0 | |
| 63 | | 3VA2163-6KP36-0AA0 | | | 3VA2163-7KP36-0AA0 | | | 3VA2163-8KP36-0AA0 | |
| 100 | | 3VA2110-6KP36-0AA0 | | | 3VA2110-7KP36-0AA0 | | | 3VA2110-8KP36-0AA0 | |
| 160 | | 3VA2116-6KP36-0AA0 | | | 3VA2116-7KP36-0AA0 | | | 3VA2116-8KP36-0AA0 | |
| | | **Connection with lug terminal** | | | | | | | |
| 25 | | 3VA2025-6KP32-0AA0 | | | 3VA2025-7KP32-0AA0 | | | 3VA2025-8KP32-0AA0 | |
| 40 | | 3VA2040-6KP32-0AA0 | | | 3VA2040-7KP32-0AA0 | | | 3VA2040-8KP32-0AA0 | |
| 63 | | 3VA2063-6KP32-0AA0 | | | 3VA2063-7KP32-0AA0 | | | 3VA2063-8KP32-0AA0 | |
| 100 | | 3VA2010-6KP32-0AA0 | | | 3VA2010-7KP32-0AA0 | | | 3VA2010-8KP32-0AA0 | |
| 25 | | 3VA2125-6KP32-0AA0 | | | 3VA2125-7KP32-0AA0 | | | 3VA2125-8KP32-0AA0 | |
| 40 | | 3VA2140-6KP32-0AA0 | | | 3VA2140-7KP32-0AA0 | | | 3VA2140-8KP32-0AA0 | |
| 63 | | 3VA2163-6KP32-0AA0 | | | 3VA2163-7KP32-0AA0 | | | 3VA2163-8KP32-0AA0 | |
| 100 | | 3VA2110-6KP32-0AA0 | | | 3VA2110-7KP32-0AA0 | | | 3VA2110-8KP32-0AA0 | |
| 160 | | 3VA2116-6KP32-0AA0 | | | 3VA2116-7KP32-0AA0 | | | 3VA2116-8KP32-0AA0 | |
| 160 | | 3VA2216-6KP32-0AA0 | | | 3VA2216-7KP32-0AA0 | | | 3VA2216-8KP32-0AA0 | |
| 250 | | 3VA2225-6KP32-0AA0 | | | 3VA2225-7KP32-0AA0 | | | 3VA2225-8KP32-0AA0 | |
| 250 | | 3VA2325-6KP32-0AA0 | | | 3VA2325-7KP32-0AA0 | | | 3VA2325-8KP32-0AA0 | |
| 400 | | 3VA2340-6KP32-0AA0 | | | 3VA2340-7KP32-0AA0 | | | 3VA2340-8KP32-0AA0 | |
| 400 | | 3VA2440-6KP32-0AA0 | | | 3VA2440-7KP32-0AA0 | | | 3VA2440-8KP32-0AA0 | |
| 500 | | 3VA2450-6KP32-0AA0 | | | 3VA2450-7KP32-0AA0 | | | -- | |
| 630 | | 3VA2463-6KP32-0AA0 | | | 3VA2463-7KP32-0AA0 | | | 3VA2463-8KP32-0AA0 | |
| ***Line and generator protection, with display, with metering function, ETU860 LSIG*** | | | | | | | | | |
| With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$, adjustable instantaneous short-circuit protection $I_i$ and adjustable ground-fault protection $I_g$ | | | | | | | | | |
| | | **Connection with box terminal** | | | | | | | |
| 25 | | 3VA2025-6KQ36-0AA0 | | | 3VA2025-7KQ36-0AA0 | | | 3VA2025-8KQ36-0AA0 | |
| 40 | | 3VA2040-6KQ36-0AA0 | | | 3VA2040-7KQ36-0AA0 | | | 3VA2040-8KQ36-0AA0 | |
| 63 | | 3VA2063-6KQ36-0AA0 | | | 3VA2063-7KQ36-0AA0 | | | 3VA2063-8KQ36-0AA0 | |
| 100 | | 3VA2010-6KQ36-0AA0 | | | 3VA2010-7KQ36-0AA0 | | | 3VA2010-8KQ36-0AA0 | |
| 25 | | 3VA2125-6KQ36-0AA0 | | | 3VA2125-7KQ36-0AA0 | | | 3VA2125-8KQ36-0AA0 | |
| 40 | | 3VA2140-6KQ36-0AA0 | | | 3VA2140-7KQ36-0AA0 | | | 3VA2140-8KQ36-0AA0 | |
| 63 | | 3VA2163-6KQ36-0AA0 | | | 3VA2163-7KQ36-0AA0 | | | 3VA2163-8KQ36-0AA0 | |
| 100 | | 3VA2110-6KQ36-0AA0 | | | 3VA2110-7KQ36-0AA0 | | | 3VA2110-8KQ36-0AA0 | |
| 160 | | 3VA2116-6KQ36-0AA0 | | | 3VA2116-7KQ36-0AA0 | | | 3VA2116-8KQ36-0AA0 | |
| | | **Connection with lug terminal** | | | | | | | |
| 25 | | 3VA2025-6KQ32-0AA0 | | | 3VA2025-7KQ32-0AA0 | | | 3VA2025-8KQ32-0AA0 | |
| 40 | | 3VA2040-6KQ32-0AA0 | | | 3VA2040-7KQ32-0AA0 | | | 3VA2040-8KQ32-0AA0 | |
| 63 | | 3VA2063-6KQ32-0AA0 | | | 3VA2063-7KQ32-0AA0 | | | 3VA2063-8KQ32-0AA0 | |
| 100 | | 3VA2010-6KQ32-0AA0 | | | 3VA2010-7KQ32-0AA0 | | | 3VA2010-8KQ32-0AA0 | |
| 25 | | 3VA2125-6KQ32-0AA0 | | | 3VA2125-7KQ32-0AA0 | | | 3VA2125-8KQ32-0AA0 | |
| 40 | | 3VA2140-6KQ32-0AA0 | | | 3VA2140-7KQ32-0AA0 | | | 3VA2140-8KQ32-0AA0 | |
| 63 | | 3VA2163-6KQ32-0AA0 | | | 3VA2163-7KQ32-0AA0 | | | 3VA2163-8KQ32-0AA0 | |
| 100 | | 3VA2110-6KQ32-0AA0 | | | 3VA2110-7KQ32-0AA0 | | | 3VA2110-8KQ32-0AA0 | |
| 160 | | 3VA2116-6KQ32-0AA0 | | | 3VA2116-7KQ32-0AA0 | | | 3VA2116-8KQ32-0AA0 | |
| 160 | | 3VA2216-6KQ32-0AA0 | | | 3VA2216-7KQ32-0AA0 | | | 3VA2216-8KQ32-0AA0 | |
| 250 | | 3VA2225-6KQ32-0AA0 | | | 3VA2225-7KQ32-0AA0 | | | 3VA2225-8KQ32-0AA0 | |
| 250 | | 3VA2325-6KQ32-0AA0 | | | 3VA2325-7KQ32-0AA0 | | | 3VA2325-8KQ32-0AA0 | |
| 400 | | 3VA2340-6KQ32-0AA0 | | | 3VA2340-7KQ32-0AA0 | | | 3VA2340-8KQ32-0AA0 | |
| 400 | | 3VA2440-6KQ32-0AA0 | | | 3VA2440-7KQ32-0AA0 | | | 3VA2440-8KQ32-0AA0 | |
| 500 | | 3VA2450-6KQ32-0AA0 | | | 3VA2450-7KQ32-0AA0 | | | -- | |
| 630 | | 3VA2463-6KQ32-0AA0 | | | 3VA2463-7KQ32-0AA0 | | | 3VA2463-8KQ32-0AA0 | |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VA2 Molded Case Circuit Breakers up to 630 A, IEC NEW

### Line protection

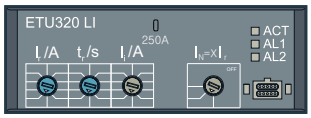
PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB



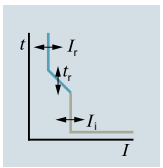


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | S function (short-time delayed short-circuit protection "S") $I_{sd}$ | Operating current of the instanta-neous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 | |
|---|---|---|---|---|---|---|---|---|
| | | A | A | A | A | | Article No. www.siemens.com/product?Article No. | Basic price per PU |

### 4-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A Electronic trip unit

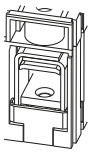



I201_18830



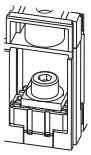

***Line protection, ETU320 LI***

With adjustable overload protection $I_r$ and adjustable instantaneous short-circuit protection $I_i$, with neutral protection against overload and short circuit 0 % or 100 % (and 50 % with $I_n$ 100 A and above)



**Connection with box terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | -- | 38 ... 300 | 3VA2025-5HL46-0AA0 |
| | 40 | 16 ... 40 | -- | 60 ... 480 | 3VA2040-5HL46-0AA0 |
| | 63 | 25 ... 63 | -- | 95 ... 756 | 3VA2063-5HL46-0AA0 |
| | 100 | 40 ... 100 | -- | 150 ... 1200 | 3VA2010-5HL46-0AA0 |
| 3VA21 | 25 | 10 ... 25 | -- | 38 ... 300 | 3VA2125-5HL46-0AA0 |
| | 40 | 16 ... 40 | -- | 60 ... 480 | 3VA2140-5HL46-0AA0 |
| | 63 | 25 ... 63 | -- | 95 ... 756 | 3VA2163-5HL46-0AA0 |
| | 100 | 40 ... 100 | -- | 150 ... 1200 | 3VA2110-5HL46-0AA0 |
| | 160 | 63 ... 160 | -- | 240 ... 1600 | 3VA2116-5HL46-0AA0 |



**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | -- | 38 ... 300 | 3VA2025-5HL42-0AA0 |
| | 40 | 16 ... 40 | -- | 60 ... 480 | 3VA2040-5HL42-0AA0 |
| | 63 | 25 ... 63 | -- | 95 ... 756 | 3VA2063-5HL42-0AA0 |
| | 100 | 40 ... 100 | -- | 150 ... 1200 | 3VA2010-5HL42-0AA0 |
| 3VA21 | 25 | 10 ... 25 | -- | 38 ... 300 | 3VA2125-5HL42-0AA0 |
| | 40 | 16 ... 40 | -- | 60 ... 480 | 3VA2140-5HL42-0AA0 |
| | 63 | 25 ... 63 | -- | 95 ... 756 | 3VA2163-5HL42-0AA0 |
| | 100 | 40 ... 100 | -- | 150 ... 1200 | 3VA2110-5HL42-0AA0 |
| | 160 | 63 ... 160 | -- | 240 ... 1600 | 3VA2116-5HL42-0AA0 |
| 3VA22 | 160 | 63 ... 160 | -- | 240 ... 1920 | 3VA2216-5HL42-0AA0 |
| | 250 | 100 ... 250 | -- | 375 ... 2500 | 3VA2225-5HL42-0AA0 |
| 3VA23 | 250 | 100 ... 250 | -- | 375 ... 3000 | 3VA2325-5HL42-0AA0 |
| | 400 | 160 ... 400 | -- | 600 ... 4000 | 3VA2340-5HL42-0AA0 |
| 3VA24 | 400 | 160 ... 400 | -- | 600 ... 4800[1)] | 3VA2440-5HL42-0AA0 |
| | 630 | 250 ... 630 | -- | 945 ... 5670 | 3VA2463-5HL42-0AA0 |

1) At breaking capacity L 4400 A



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU | DT | $I_{cu}$ up to 110 kA at 415 V, very high breaking capacity C (C) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU | DT | $I_{cu}$ up to 150 kA at 415 V, extremely high breaking capacity L (L) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | | |
| ***Line protection, ETU320 LI*** With adjustable overload protection $I_r$ and adjustable instantaneous short-circuit protection $I_i$, with neutral protection against overload and short circuit 0 % or 100 % (and 50 % with $I_n$ 100 A and above) | | | | | | | | | |
| | | **Connection with box terminal** | | | | | | | |
| 25 | | 3VA2025-6HL46-0AA0 | | | 3VA2025-7HL46-0AA0 | | | 3VA2025-8HL46-0AA0 | |
| 40 | | 3VA2040-6HL46-0AA0 | | | 3VA2040-7HL46-0AA0 | | | 3VA2040-8HL46-0AA0 | |
| 63 | | 3VA2063-6HL46-0AA0 | | | 3VA2063-7HL46-0AA0 | | | 3VA2063-8HL46-0AA0 | |
| 100 | | 3VA2010-6HL46-0AA0 | | | 3VA2010-7HL46-0AA0 | | | 3VA2010-8HL46-0AA0 | |
| 25 | | 3VA2125-6HL46-0AA0 | | | 3VA2125-7HL46-0AA0 | | | 3VA2125-8HL46-0AA0 | |
| 40 | | 3VA2140-6HL46-0AA0 | | | 3VA2140-7HL46-0AA0 | | | 3VA2140-8HL46-0AA0 | |
| 63 | | 3VA2163-6HL46-0AA0 | | | 3VA2163-7HL46-0AA0 | | | 3VA2163-8HL46-0AA0 | |
| 100 | | 3VA2110-6HL46-0AA0 | | | 3VA2110-7HL46-0AA0 | | | 3VA2110-8HL46-0AA0 | |
| 160 | | 3VA2116-6HL46-0AA0 | | | 3VA2116-7HL46-0AA0 | | | 3VA2116-8HL46-0AA0 | |
| | | **Connection with lug terminal** | | | | | | | |
| 25 | | 3VA2025-6HL42-0AA0 | | | 3VA2025-7HL42-0AA0 | | | 3VA2025-8HL42-0AA0 | |
| 40 | | 3VA2040-6HL42-0AA0 | | | 3VA2040-7HL42-0AA0 | | | 3VA2040-8HL42-0AA0 | |
| 63 | | 3VA2063-6HL42-0AA0 | | | 3VA2063-7HL42-0AA0 | | | 3VA2063-8HL42-0AA0 | |
| 100 | | 3VA2010-6HL42-0AA0 | | | 3VA2010-7HL42-0AA0 | | | 3VA2010-8HL42-0AA0 | |
| 25 | | 3VA2125-6HL42-0AA0 | | | 3VA2125-7HL42-0AA0 | | | 3VA2125-8HL42-0AA0 | |
| 40 | | 3VA2140-6HL42-0AA0 | | | 3VA2140-7HL42-0AA0 | | | 3VA2140-8HL42-0AA0 | |
| 63 | | 3VA2163-6HL42-0AA0 | | | 3VA2163-7HL42-0AA0 | | | 3VA2163-8HL42-0AA0 | |
| 100 | | 3VA2110-6HL42-0AA0 | | | 3VA2110-7HL42-0AA0 | | | 3VA2110-8HL42-0AA0 | |
| 160 | | 3VA2116-6HL42-0AA0 | | | 3VA2116-7HL42-0AA0 | | | 3VA2116-8HL42-0AA0 | |
| 160 | | 3VA2216-6HL42-0AA0 | | | 3VA2216-7HL42-0AA0 | | | 3VA2216-8HL42-0AA0 | |
| 250 | | 3VA2225-6HL42-0AA0 | | | 3VA2225-7HL42-0AA0 | | | 3VA2225-8HL42-0AA0 | |
| 250 | | 3VA2325-6HL42-0AA0 | | | 3VA2325-7HL42-0AA0 | | | 3VA2325-8HL42-0AA0 | |
| 400 | | 3VA2340-6HL42-0AA0 | | | 3VA2340-7HL42-0AA0 | | | 3VA2340-8HL42-0AA0 | |
| 400 | | 3VA2440-6HL42-0AA0 | | | 3VA2440-7HL42-0AA0 | | | 3VA2440-8HL42-0AA0 | |
| 630 | | 3VA2463-6HL42-0AA0 | | | 3VA2463-7HL42-0AA0 | | | 3VA2463-8HL42-0AA0 | |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VA2 Molded Case Circuit Breakers up to 630 A, IEC NEW

### Line protection

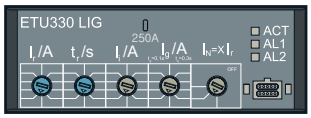
PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB



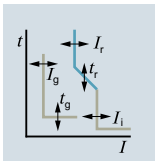


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | Ground-fault protection G $I_g$ | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 | |
|---|---|---|---|---|---|---|---|---|
| | | A | A | A | A | | Article No. www.siemens.com/product?Article No. | Basic price per PU |

### 4-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A Electronic trip unit

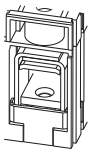



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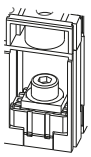

***Line protection, ETU330 LIG***

With adjustable overload protection $I_r$ and adjustable instantaneous short-circuit protection $I_i$, with neutral protection against overload and short circuit 0 % or 100 % (and 50 % with $I_n$ 100 A and above) and adjustable ground-fault protection $I_g$



**Connection with box terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 38 ... 300 | 15 ... 25 | 3VA2025-5HM46-0AA0 |
| | 40 | 16 ... 40 | 60 ... 480 | 16 ... 40 | 3VA2040-5HM46-0AA0 |
| | 63 | 25 ... 63 | 95 ... 756 | 16 ... 63 | 3VA2063-5HM46-0AA0 |
| | 100 | 40 ... 100 | 150 ... 1200 | 20 ... 100 | 3VA2010-5HM46-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 38 ... 300 | 15 ... 25 | 3VA2125-5HM46-0AA0 |
| | 40 | 16 ... 40 | 60 ... 480 | 16 ... 40 | 3VA2140-5HM46-0AA0 |
| | 63 | 25 ... 63 | 95 ... 756 | 16 ... 63 | 3VA2163-5HM46-0AA0 |
| | 100 | 40 ... 100 | 150 ... 1200 | 20 ... 100 | 3VA2110-5HM46-0AA0 |
| | 160 | 63 ... 160 | 240 ... 1600 | 32 ... 160 | 3VA2116-5HM46-0AA0 |



**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 38 ... 300 | 15 ... 25 | 3VA2025-5HM42-0AA0 |
| | 40 | 16 ... 40 | 60 ... 480 | 16 ... 40 | 3VA2040-5HM42-0AA0 |
| | 63 | 25 ... 63 | 95 ... 756 | 16 ... 63 | 3VA2063-5HM42-0AA0 |
| | 100 | 40 ... 100 | 150 ... 1200 | 20 ... 100 | 3VA2010-5HM42-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 38 ... 300 | 15 ... 25 | 3VA2125-5HM42-0AA0 |
| | 40 | 16 ... 40 | 60 ... 480 | 16 ... 40 | 3VA2140-5HM42-0AA0 |
| | 63 | 25 ... 63 | 95 ... 756 | 16 ... 63 | 3VA2163-5HM42-0AA0 |
| | 100 | 40 ... 100 | 150 ... 1200 | 20 ... 100 | 3VA2110-5HM42-0AA0 |
| | 160 | 63 ... 160 | 240 ... 1600 | 32 ... 160 | 3VA2116-5HM42-0AA0 |
| 3VA22 | 160 | 63 ... 160 | 240 ... 1920 | 32 ... 160 | 3VA2216-5HM42-0AA0 |
| | 250 | 100 ... 250 | 375 ... 2500 | 50 ... 250 | 3VA2225-5HM42-0AA0 |
| 3VA23 | 250 | 100 ... 250 | 375 ... 3000 | 50 ... 250 | 3VA2325-5HM42-0AA0 |
| | 400 | 160 ... 400 | 600 ... 4000 | 80 ... 400 | 3VA2340-5HM42-0AA0 |
| 3VA24 | 400 | 160 ... 400 | 600 ... 4800[1] | 80 ... 400 | 3VA2440-5HM42-0AA0 |
| | 630 | 250 ... 630 | 945 ... 5670 | 126 ... 630 | 3VA2463-5HM42-0AA0 |

[1] At breaking capacity L 4400 A



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 110 kA at 415 V, very high breaking capacity C (C) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 150 kA at 415 V, extremely high breaking capacity L (L) See "Overview", p. 2/6 and 2/7 |
|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU |
| A | | | | | | |

***Line protection, ETU330 LIG***
With adjustable overload protection $I_r$ and adjustable instantaneous short-circuit protection $I_i$, with neutral protection against overload and short circuit 0 % or 100 % (and 50 % with $I_n$ 100 A and above) and adjustable ground-fault protection $I_g$

| | | | | |
|---|---|---|---|---|
| | **Connection with box terminal** | | | |
| 25 | 3VA2025-6HM46-0AA0 | | 3VA2025-7HM46-0AA0 | 3VA2025-8HM46-0AA0 |
| 40 | 3VA2040-6HM46-0AA0 | | 3VA2040-7HM46-0AA0 | 3VA2040-8HM46-0AA0 |
| 63 | 3VA2063-6HM46-0AA0 | | 3VA2063-7HM46-0AA0 | 3VA2063-8HM46-0AA0 |
| 100 | 3VA2010-6HM46-0AA0 | | 3VA2010-7HM46-0AA0 | 3VA2010-8HM46-0AA0 |
| 25 | 3VA2125-6HM46-0AA0 | | 3VA2125-7HM46-0AA0 | 3VA2125-8HM46-0AA0 |
| 40 | 3VA2140-6HM46-0AA0 | | 3VA2140-7HM46-0AA0 | 3VA2140-8HM46-0AA0 |
| 63 | 3VA2163-6HM46-0AA0 | | 3VA2163-7HM46-0AA0 | 3VA2163-8HM46-0AA0 |
| 100 | 3VA2110-6HM46-0AA0 | | 3VA2110-7HM46-0AA0 | 3VA2110-8HM46-0AA0 |
| 160 | 3VA2116-6HM46-0AA0 | | 3VA2116-7HM46-0AA0 | 3VA2116-8HM46-0AA0 |
| | **Connection with lug terminal** | | | |
| 25 | 3VA2025-6HM42-0AA0 | | 3VA2025-7HM42-0AA0 | 3VA2025-8HM42-0AA0 |
| 40 | 3VA2040-6HM42-0AA0 | | 3VA2040-7HM42-0AA0 | 3VA2040-8HM42-0AA0 |
| 63 | 3VA2063-6HM42-0AA0 | | 3VA2063-7HM42-0AA0 | 3VA2063-8HM42-0AA0 |
| 100 | 3VA2010-6HM42-0AA0 | | 3VA2010-7HM42-0AA0 | 3VA2010-8HM42-0AA0 |
| 25 | 3VA2125-6HM42-0AA0 | | 3VA2125-7HM42-0AA0 | 3VA2125-8HM42-0AA0 |
| 40 | 3VA2140-6HM42-0AA0 | | 3VA2140-7HM42-0AA0 | 3VA2140-8HM42-0AA0 |
| 63 | 3VA2163-6HM42-0AA0 | | 3VA2163-7HM42-0AA0 | 3VA2163-8HM42-0AA0 |
| 100 | 3VA2110-6HM42-0AA0 | | 3VA2110-7HM42-0AA0 | 3VA2110-8HM42-0AA0 |
| 160 | 3VA2116-6HM42-0AA0 | | 3VA2116-7HM42-0AA0 | 3VA2116-8HM42-0AA0 |
| 160 | 3VA2216-6HM42-0AA0 | | 3VA2216-7HM42-0AA0 | 3VA2216-8HM42-0AA0 |
| 250 | 3VA2225-6HM42-0AA0 | | 3VA2225-7HM42-0AA0 | 3VA2225-8HM42-0AA0 |
| 250 | 3VA2325-6HM42-0AA0 | | 3VA2325-7HM42-0AA0 | 3VA2325-8HM42-0AA0 |
| 400 | 3VA2340-6HM42-0AA0 | | 3VA2340-7HM42-0AA0 | 3VA2340-8HM42-0AA0 |
| 400 | 3VA2440-6HM42-0AA0 | | 3VA2440-7HM42-0AA0 | 3VA2440-8HM42-0AA0 |
| 630 | 3VA2463-6HM42-0AA0 | | 3VA2463-7HM42-0AA0 | 3VA2463-8HM42-0AA0 |

*** You can order this quantity or a multiple thereof.**

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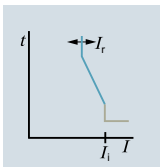
PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB



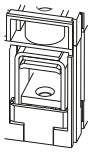
| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | S function (short-time delayed short-circuit protection "S") $I_{sd}$ | Operating current of the instanta-neous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|---|
| | | A | A | A | A | | | |

### 4-pole, fixed-mounted, 3VA21 to 3VA24, up to 630 A
### Electronic trip unit



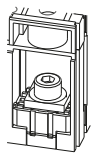




***Line protection, ETU340 ELISA***
With easily adjustable characteristic (characteristic form of a fuse) with "N" overload and short-circuit release 0 %, 50 % or 100 %



**Connection with box terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA21 | 25 | 10 ... 25 | -- | 375 | 3VA2125-5HK46-0AA0 |
| | 40 | 16 ... 40 | -- | 600 | 3VA2140-5HK46-0AA0 |
| | 63 | 25 ... 63 | -- | 945 | 3VA2163-5HK46-0AA0 |
| | 100 | 40 ... 100 | -- | 1500 | 3VA2110-5HK46-0AA0 |



**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA21 | 25 | 10 ... 25 | -- | 375 | 3VA2125-5HK42-0AA0 |
| | 40 | 16 ... 40 | -- | 600 | 3VA2140-5HK42-0AA0 |
| | 63 | 25 ... 63 | -- | 945 | 3VA2163-5HK42-0AA0 |
| | 100 | 40 ... 100 | -- | 1500 | 3VA2110-5HK42-0AA0 |
| 3VA22 | 160 | 63 ... 160 | -- | 2400 | 3VA2216-5HK42-0AA0 |
| 3VA23 | 250 | 100 ... 250 | -- | 3750 | 3VA2325-5HK42-0AA0 |
| 3VA24 | 400 | 160 ... 400 | -- | 6000[1] | 3VA2440-5HK42-0AA0 |
| | 500 | 200 ... 500 | -- | 7000 | 3VA2450-5HK42-0AA0 |
| | 630 | 250 ... 630 | -- | 5670 | 3VA2463-5HK42-0AA0 |

1) At breaking capacity L 4400 A



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 110 kA at 415 V, very high breaking capacity C (C) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 150 kA at 415 V, extremely high breaking capacity L (L) See "Overview", p. 2/6 and 2/7 |
|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU |
| A | | | | | | |
| ***Line protection, ETU340 ELISA*** With easily adjustable characteristic (characteristic form of a fuse) with "N" overload and short-circuit release 0 %, 50 % or 100 % | | | | | | |
| | | **Connection with box terminal** | | | | |
| 25 | | 3VA2125-6HK46-0AA0 | | 3VA2125-7HK46-0AA0 | | 3VA2125-8HK46-0AA0 |
| 40 | | 3VA2140-6HK46-0AA0 | | 3VA2140-7HK46-0AA0 | | 3VA2140-8HK46-0AA0 |
| 63 | | 3VA2163-6HK46-0AA0 | | 3VA2163-7HK46-0AA0 | | 3VA2163-8HK46-0AA0 |
| 100 | | 3VA2110-6HK46-0AA0 | | 3VA2110-7HK46-0AA0 | | 3VA2110-8HK46-0AA0 |
| | | **Connection with lug terminal** | | | | |
| 25 | | 3VA2125-6HK42-0AA0 | | 3VA2125-7HK42-0AA0 | | 3VA2125-8HK42-0AA0 |
| 40 | | 3VA2140-6HK42-0AA0 | | 3VA2140-7HK42-0AA0 | | 3VA2140-8HK42-0AA0 |
| 63 | | 3VA2163-6HK42-0AA0 | | 3VA2163-7HK42-0AA0 | | 3VA2163-8HK42-0AA0 |
| 100 | | 3VA2110-6HK42-0AA0 | | 3VA2110-7HK42-0AA0 | | 3VA2110-8HK42-0AA0 |
| 160 | | 3VA2216-6HK42-0AA0 | | 3VA2216-7HK42-0AA0 | | 3VA2216-8HK42-0AA0 |
| 250 | | 3VA2325-6HK42-0AA0 | | 3VA2325-7HK42-0AA0 | | 3VA2325-8HK42-0AA0 |
| 400 | | 3VA2440-6HK42-0AA0 | | 3VA2440-7HK42-0AA0 | | 3VA2440-8HK42-0AA0 |
| 500 | | 3VA2450-6HK42-0AA0 | | 3VA2450-7HK42-0AA0 | | 3VA2450-8HK42-0AA0 |
| 630 | | 3VA2463-6HK42-0AA0 | | 3VA2463-7HK42-0AA0 | | 3VA2463-8HK42-0AA0 |

*** You can order this quantity or a multiple thereof.**

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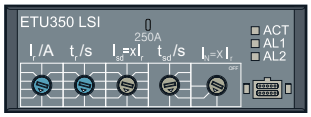


PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

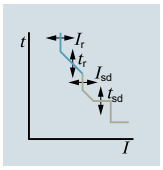


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | S function (short-time delayed short-circuit protection "S") $I_{sd}$ | Operating current of the instan-taneous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 | |
|---|---|---|---|---|---|---|---|---|
| | | A | A | A | A | | Article No. www.siemens.com/product?Article No. | Basic price per PU |

### 4-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A
### Electronic trip unit

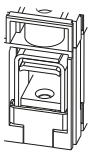



I201_18828



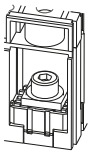

***Line and generator protection, ETU350 LSI***

With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and fixed instantaneous short-circuit protection $I_i$, with neutral protection against overload and short circuit 0 % or 100 % (and 50 % with $I_n$ 100 A and above)



**Connection with box terminal**

| | $I_n$ | $I_r$ x ... | | $I_i$ | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 1.5 ... 10 | 300 | 3VA2025-5HN46-0AA0 |
| | 40 | 16 ... 40 | 1.5 ... 10 | 480 | 3VA2040-5HN46-0AA0 |
| | 63 | 25 ... 63 | 1.5 ... 10 | 756 | 3VA2063-5HN46-0AA0 |
| | 100 | 40 ... 100 | 1.5 ... 10 | 1200 | 3VA2010-5HN46-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 1.5 ... 10 | 300 | 3VA2125-5HN46-0AA0 |
| | 40 | 16 ... 40 | 1.5 ... 10 | 480 | 3VA2140-5HN46-0AA0 |
| | 63 | 25 ... 63 | 1.5 ... 10 | 756 | 3VA2163-5HN46-0AA0 |
| | 100 | 40 ... 100 | 1.5 ... 10 | 1200 | 3VA2110-5HN46-0AA0 |
| | 160 | 63 ... 160 | 1.5 ... 10 | 1600 | 3VA2116-5HN46-0AA0 |



**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 1.5 ... 10 | 300 | 3VA2025-5HN42-0AA0 |
| | 40 | 16 ... 40 | 1.5 ... 10 | 480 | 3VA2040-5HN42-0AA0 |
| | 63 | 25 ... 63 | 1.5 ... 10 | 756 | 3VA2063-5HN42-0AA0 |
| | 100 | 40 ... 100 | 1.5 ... 10 | 1200 | 3VA2010-5HN42-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 1.5 ... 10 | 300 | 3VA2125-5HN42-0AA0 |
| | 40 | 16 ... 40 | 1.5 ... 10 | 480 | 3VA2140-5HN42-0AA0 |
| | 63 | 25 ... 63 | 1.5 ... 10 | 756 | 3VA2163-5HN42-0AA0 |
| | 100 | 40 ... 100 | 1.5 ... 10 | 1200 | 3VA2110-5HN42-0AA0 |
| | 160 | 63 ... 160 | 1.5 ... 10 | 1600 | 3VA2116-5HN42-0AA0 |
| 3VA22 | 160 | 63 ... 160 | 1.5 ... 10 | 1920 | 3VA2216-5HN42-0AA0 |
| | 250 | 100 ... 250 | 1.5 ... 10 | 2500 | 3VA2225-5HN42-0AA0 |
| 3VA23 | 250 | 100 ... 250 | 1.5 ... 10 | 3000 | 3VA2325-5HN42-0AA0 |
| | 400 | 160 ... 400 | 1.5 ... 10 | 4000 | 3VA2340-5HN42-0AA0 |
| 3VA24 | 400 | 160 ... 400 | 1.5 ... 10 | 4800[1)] | 3VA2440-5HN42-0AA0 |
| | 630 | 250 ... 630 | 1.5 ... 9 | 5670 | 3VA2463-5HN42-0AA0 |

1) At breaking capacity L 4400 A



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU | DT | $I_{cu}$ up to 110 kA at 415 V, very high breaking capacity C (C) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU | DT | $I_{cu}$ up to 150 kA at 415 V, extremely high breaking capacity L (L) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | | |
| ***Line and generator protection, ETU350 LSI*** With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and fixed instantaneous short-circuit protection $I_i$, with neutral protection against overload and short circuit 0 % or 100 % (and 50 % with $I_n$ 100 A and above) | | | | | | | | | |
| | | **Connection with box terminal** | | | | | | | |
| 25 | | 3VA2025-6HN46-0AA0 | | | 3VA2025-7HN46-0AA0 | | | 3VA2025-8HN46-0AA0 | |
| 40 | | 3VA2040-6HN46-0AA0 | | | 3VA2040-7HN46-0AA0 | | | 3VA2040-8HN46-0AA0 | |
| 63 | | 3VA2063-6HN46-0AA0 | | | 3VA2063-7HN46-0AA0 | | | 3VA2063-8HN46-0AA0 | |
| 100 | | 3VA2010-6HN46-0AA0 | | | 3VA2010-7HN46-0AA0 | | | 3VA2010-8HN46-0AA0 | |
| 25 | | 3VA2125-6HN46-0AA0 | | | 3VA2125-7HN46-0AA0 | | | 3VA2125-8HN46-0AA0 | |
| 40 | | 3VA2140-6HN46-0AA0 | | | 3VA2140-7HN46-0AA0 | | | 3VA2140-8HN46-0AA0 | |
| 63 | | 3VA2163-6HN46-0AA0 | | | 3VA2163-7HN46-0AA0 | | | 3VA2163-8HN46-0AA0 | |
| 100 | | 3VA2110-6HN46-0AA0 | | | 3VA2110-7HN46-0AA0 | | | 3VA2110-8HN46-0AA0 | |
| 160 | | 3VA2116-6HN46-0AA0 | | | 3VA2116-7HN46-0AA0 | | | 3VA2116-8HN46-0AA0 | |
| | | **Connection with lug terminal** | | | | | | | |
| 25 | | 3VA2025-6HN42-0AA0 | | | 3VA2025-7HN42-0AA0 | | | 3VA2025-8HN42-0AA0 | |
| 40 | | 3VA2040-6HN42-0AA0 | | | 3VA2040-7HN42-0AA0 | | | 3VA2040-8HN42-0AA0 | |
| 63 | | 3VA2063-6HN42-0AA0 | | | 3VA2063-7HN42-0AA0 | | | 3VA2063-8HN42-0AA0 | |
| 100 | | 3VA2010-6HN42-0AA0 | | | 3VA2010-7HN42-0AA0 | | | 3VA2010-8HN42-0AA0 | |
| 25 | | 3VA2125-6HN42-0AA0 | | | 3VA2125-7HN42-0AA0 | | | 3VA2125-8HN42-0AA0 | |
| 40 | | 3VA2140-6HN42-0AA0 | | | 3VA2140-7HN42-0AA0 | | | 3VA2140-8HN42-0AA0 | |
| 63 | | 3VA2163-6HN42-0AA0 | | | 3VA2163-7HN42-0AA0 | | | 3VA2163-8HN42-0AA0 | |
| 100 | | 3VA2110-6HN42-0AA0 | | | 3VA2110-7HN42-0AA0 | | | 3VA2110-8HN42-0AA0 | |
| 160 | | 3VA2116-6HN42-0AA0 | | | 3VA2116-7HN42-0AA0 | | | 3VA2116-8HN42-0AA0 | |
| 160 | | 3VA2216-6HN42-0AA0 | | | 3VA2216-7HN42-0AA0 | | | 3VA2216-8HN42-0AA0 | |
| 250 | | 3VA2225-6HN42-0AA0 | | | 3VA2225-7HN42-0AA0 | | | 3VA2225-8HN42-0AA0 | |
| 250 | | 3VA2325-6HN42-0AA0 | | | 3VA2325-7HN42-0AA0 | | | 3VA2325-8HN42-0AA0 | |
| 400 | | 3VA2340-6HN42-0AA0 | | | 3VA2340-7HN42-0AA0 | | | 3VA2340-8HN42-0AA0 | |
| 400 | | 3VA2440-6HN42-0AA0 | | | 3VA2440-7HN42-0AA0 | | | 3VA2440-8HN42-0AA0 | |
| 630 | | 3VA2463-6HN42-0AA0 | | | 3VA2463-7HN42-0AA0 | | | 3VA2463-8HN42-0AA0 | |

*** You can order this quantity or a multiple thereof.**

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

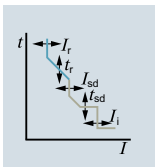


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | S function (short-time delayed short-circuit protection "S") $I_{sd}$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|---|
| | | A | A | A | A | | | |

### 4-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A
### Electronic trip unit

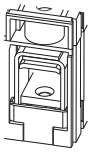



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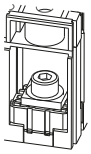

#### *Line and generator protection, with display, ETU550 LSI*

With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and fixed instantaneous short-circuit protection $I_i$, with neutral protection against overload and short circuit from 20 %/40 % to 100 %/160 %



**Connection with box terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5JP46-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5JP46-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5JP46-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5JP46-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5JP46-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5JP46-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5JP46-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5JP46-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5JP46-0AA0 |

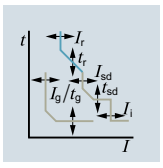


**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5JP42-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5JP42-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5JP42-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5JP42-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5JP42-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5JP42-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5JP42-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5JP42-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5JP42-0AA0 |
| 3VA22 | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1920 | 3VA2216-5JP42-0AA0 |
| | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 2500 | 3VA2225-5JP42-0AA0 |
| 3VA23 | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 3000 | 3VA2325-5JP42-0AA0 |
| | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 4000 | 3VA2340-5JP42-0AA0 |
| 3VA24 | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 6000[1)] | 3VA2440-5JP42-0AA0 |
| | 500 | 200 ... 500 | 300 ... 5000 | 750 ... 7000 | 3VA2450-5JP42-0AA0 |
| | 630 | 250 ... 630 | 378 ... 5670 | 945 ... 5670 | 3VA2463-5JP42-0AA0 |

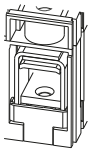



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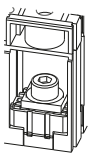

#### *Line and generator protection, with display, ETU560 LSIG*

With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and fixed instantaneous short-circuit protection $I_i$, with neutral protection against overload and short circuit from 20 %/40 % to 100 %/160 % and adjustable ground-fault protection $I_g$



**Connection with box terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5JQ46-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5JQ46-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5JQ46-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5JQ46-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5JQ46-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5JQ46-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5JQ46-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5JQ46-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5JQ46-0AA0 |



**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5JQ42-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5JQ42-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5JQ42-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5JQ42-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5JQ42-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5JQ42-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5JQ42-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5JQ42-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5JQ42-0AA0 |
| 3VA22 | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1920 | 3VA2216-5JQ42-0AA0 |
| | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 2500 | 3VA2225-5JQ42-0AA0 |
| 3VA23 | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 3000 | 3VA2325-5JQ42-0AA0 |
| | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 4000 | 3VA2340-5JQ42-0AA0 |
| 3VA24 | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 6000[1)] | 3VA2440-5JQ42-0AA0 |
| | 500 | 200 ... 500 | 300 ... 5000 | 750 ... 7000 | 3VA2450-5JQ42-0AA0 |
| | 630 | 250 ... 630 | 378 ... 5670 | 945 ... 5670 | 3VA2463-5JQ42-0AA0 |

[1)] At breaking capacity L 4400 A



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 110 kA at 415 V, very high breaking capacity C (C) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 150 kA at 415 V, extremely high breaking capacity L (L) See "Overview", p. 2/6 and 2/7 |
|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU | | Article No. www.siemens.com/product?Article No. Basic price per PU |
| A | | | | | | |

### *Line and generator protection, with display, ETU550 LSI*

With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and fixed instantaneous short-circuit protection $I_i$, with neutral protection against overload and short circuit from 20 %/40 % to 100 %/160 %

| | | | | |
|---|---|---|---|---|
| | **Connection with box terminal** | | | |
| 25 | 3VA2025-6JP46-0AA0 | | 3VA2025-7JP46-0AA0 | 3VA2025-8JP46-0AA0 |
| 40 | 3VA2040-6JP46-0AA0 | | 3VA2040-7JP46-0AA0 | 3VA2040-8JP46-0AA0 |
| 63 | 3VA2063-6JP46-0AA0 | | 3VA2063-7JP46-0AA0 | 3VA2063-8JP46-0AA0 |
| 100 | 3VA2010-6JP46-0AA0 | | 3VA2010-7JP46-0AA0 | 3VA2010-8JP46-0AA0 |
| 25 | 3VA2125-6JP46-0AA0 | | 3VA2125-7JP46-0AA0 | 3VA2125-8JP46-0AA0 |
| 40 | 3VA2140-6JP46-0AA0 | | 3VA2140-7JP46-0AA0 | 3VA2140-8JP46-0AA0 |
| 63 | 3VA2163-6JP46-0AA0 | | 3VA2163-7JP46-0AA0 | 3VA2163-8JP46-0AA0 |
| 100 | 3VA2110-6JP46-0AA0 | | 3VA2110-7JP46-0AA0 | 3VA2110-8JP46-0AA0 |
| 160 | 3VA2116-6JP46-0AA0 | | 3VA2116-7JP46-0AA0 | 3VA2116-8JP46-0AA0 |
| | **Connection with lug terminal** | | | |
| 25 | 3VA2025-6JP42-0AA0 | | 3VA2025-7JP42-0AA0 | 3VA2025-8JP42-0AA0 |
| 40 | 3VA2040-6JP42-0AA0 | | 3VA2040-7JP42-0AA0 | 3VA2040-8JP42-0AA0 |
| 63 | 3VA2063-6JP42-0AA0 | | 3VA2063-7JP42-0AA0 | 3VA2063-8JP42-0AA0 |
| 100 | 3VA2010-6JP42-0AA0 | | 3VA2010-7JP42-0AA0 | 3VA2010-8JP42-0AA0 |
| 25 | 3VA2125-6JP42-0AA0 | | 3VA2125-7JP42-0AA0 | 3VA2125-8JP42-0AA0 |
| 40 | 3VA2140-6JP42-0AA0 | | 3VA2140-7JP42-0AA0 | 3VA2140-8JP42-0AA0 |
| 63 | 3VA2163-6JP42-0AA0 | | 3VA2163-7JP42-0AA0 | 3VA2163-8JP42-0AA0 |
| 100 | 3VA2110-6JP42-0AA0 | | 3VA2110-7JP42-0AA0 | 3VA2110-8JP42-0AA0 |
| 160 | 3VA2116-6JP42-0AA0 | | 3VA2116-7JP42-0AA0 | 3VA2116-8JP42-0AA0 |
| 160 | 3VA2216-6JP42-0AA0 | | 3VA2216-7JP42-0AA0 | 3VA2216-8JP42-0AA0 |
| 250 | 3VA2225-6JP42-0AA0 | | 3VA2225-7JP42-0AA0 | 3VA2225-8JP42-0AA0 |
| 250 | 3VA2325-6JP42-0AA0 | | 3VA2325-7JP42-0AA0 | 3VA2325-8JP42-0AA0 |
| 400 | 3VA2340-6JP42-0AA0 | | 3VA2340-7JP42-0AA0 | 3VA2340-8JP42-0AA0 |
| 400 | 3VA2440-6JP42-0AA0 | | 3VA2440-7JP42-0AA0 | 3VA2440-8JP42-0AA0 |
| 500 | 3VA2450-6JP42-0AA0 | | 3VA2450-7JP42-0AA0 | -- |
| 630 | 3VA2463-6JP42-0AA0 | | 3VA2463-7JP42-0AA0 | 3VA2463-8JP42-0AA0 |

### *Line and generator protection, with display, ETU560 LSIG*

With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and fixed instantaneous short-circuit protection $I_i$, with neutral protection against overload and short circuit from 20 %/40 % to 100 %/160 % and adjustable ground-fault protection $I_g$

| | | | | |
|---|---|---|---|---|
| | **Connection with box terminal** | | | |
| 25 | 3VA2025-6JQ46-0AA0 | | 3VA2025-7JQ46-0AA0 | 3VA2025-8JQ46-0AA0 |
| 40 | 3VA2040-6JQ46-0AA0 | | 3VA2040-7JQ46-0AA0 | 3VA2040-8JQ46-0AA0 |
| 63 | 3VA2063-6JQ46-0AA0 | | 3VA2063-7JQ46-0AA0 | 3VA2063-8JQ46-0AA0 |
| 100 | 3VA2010-6JQ46-0AA0 | | 3VA2010-7JQ46-0AA0 | 3VA2010-8JQ46-0AA0 |
| 25 | 3VA2125-6JQ46-0AA0 | | 3VA2125-7JQ46-0AA0 | 3VA2125-8JQ46-0AA0 |
| 40 | 3VA2140-6JQ46-0AA0 | | 3VA2140-7JQ46-0AA0 | 3VA2140-8JQ46-0AA0 |
| 63 | 3VA2163-6JQ46-0AA0 | | 3VA2163-7JQ46-0AA0 | 3VA2163-8JQ46-0AA0 |
| 100 | 3VA2110-6JQ46-0AA0 | | 3VA2110-7JQ46-0AA0 | 3VA2110-8JQ46-0AA0 |
| 160 | 3VA2116-6JQ46-0AA0 | | 3VA2116-7JQ46-0AA0 | 3VA2116-8JQ46-0AA0 |
| | **Connection with lug terminal** | | | |
| 25 | 3VA2025-6JQ42-0AA0 | | 3VA2025-7JQ42-0AA0 | 3VA2025-8JQ42-0AA0 |
| 40 | 3VA2040-6JQ42-0AA0 | | 3VA2040-7JQ42-0AA0 | 3VA2040-8JQ42-0AA0 |
| 63 | 3VA2063-6JQ42-0AA0 | | 3VA2063-7JQ42-0AA0 | 3VA2063-8JQ42-0AA0 |
| 100 | 3VA2010-6JQ42-0AA0 | | 3VA2010-7JQ42-0AA0 | 3VA2010-8JQ42-0AA0 |
| 25 | 3VA2125-6JQ42-0AA0 | | 3VA2125-7JQ42-0AA0 | 3VA2125-8JQ42-0AA0 |
| 40 | 3VA2140-6JQ42-0AA0 | | 3VA2140-7JQ42-0AA0 | 3VA2140-8JQ42-0AA0 |
| 63 | 3VA2163-6JQ42-0AA0 | | 3VA2163-7JQ42-0AA0 | 3VA2163-8JQ42-0AA0 |
| 100 | 3VA2110-6JQ42-0AA0 | | 3VA2110-7JQ42-0AA0 | 3VA2110-8JQ42-0AA0 |
| 160 | 3VA2116-6JQ42-0AA0 | | 3VA2116-7JQ42-0AA0 | 3VA2116-8JQ42-0AA0 |
| 160 | 3VA2216-6JQ42-0AA0 | | 3VA2216-7JQ42-0AA0 | 3VA2216-8JQ42-0AA0 |
| 250 | 3VA2225-6JQ42-0AA0 | | 3VA2225-7JQ42-0AA0 | 3VA2225-8JQ42-0AA0 |
| 250 | 3VA2325-6JQ42-0AA0 | | 3VA2325-7JQ42-0AA0 | 3VA2325-8JQ42-0AA0 |
| 400 | 3VA2340-6JQ42-0AA0 | | 3VA2340-7JQ42-0AA0 | 3VA2340-8JQ42-0AA0 |
| 400 | 3VA2440-6JQ42-0AA0 | | 3VA2440-7JQ42-0AA0 | 3VA2440-8JQ42-0AA0 |
| 500 | 3VA2450-6JQ42-0AA0 | | 3VA2450-7JQ42-0AA0 | -- |
| 630 | 3VA2463-6JQ42-0AA0 | | 3VA2463-7JQ42-0AA0 | 3VA2463-8JQ42-0AA0 |

*** You can order this quantity or a multiple thereof.**

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

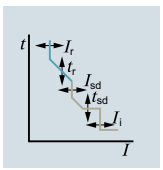


| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | S function (short-time delayed short-circuit protection "S") $I_{sd}$ | Operating current of the instanta-neous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|---|
| | | A | A | A | A | | | |

### 4-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A
### Electronic trip unit

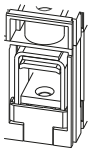



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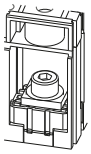

***Line and generator protection, with display, with metering function, ETU850 LSI***

With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and fixed instantaneous short-circuit protection $I_i$, with neutral protection against overload and short circuit from 20 %/40 % to 100 %/160 %



**Connection with box terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5KP46-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5KP46-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5KP46-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5KP46-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5KP46-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5KP46-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5KP46-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5KP46-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5KP46-0AA0 |

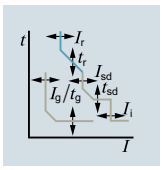


**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5KP42-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5KP42-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5KP42-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5KP42-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5KP42-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5KP42-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5KP42-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5KP42-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5KP42-0AA0 |
| 3VA22 | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1920 | 3VA2216-5KP42-0AA0 |
| | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 2500 | 3VA2225-5KP42-0AA0 |
| 3VA23 | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 3000 | 3VA2325-5KP42-0AA0 |
| | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 4000 | 3VA2340-5KP42-0AA0 |
| 3VA24 | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 6000[1)] | 3VA2440-5KP42-0AA0 |
| | 500 | 200 ... 500 | 300 ... 5000 | 750 ... 7000 | 3VA2450-5KP42-0AA0 |
| | 630 | 250 ... 630 | 378 ... 5670 | 945 ... 5670 | 3VA2463-5KP42-0AA0 |

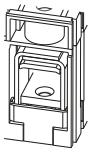



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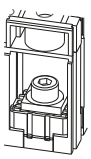

***Line and generator protection, with display, with metering function, ETU860 LSIG***

With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and fixed instantaneous short-circuit protection $I_i$, with neutral protection against overload and short circuit from 20 %/40 % to 100 %/160 % and adjustable ground-fault protection $I_g$



**Connection with box terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5KQ46-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5KQ46-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5KQ46-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5KQ46-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5KQ46-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5KQ46-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5KQ46-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5KQ46-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5KQ46-0AA0 |



**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA20 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2025-5KQ42-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2040-5KQ42-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2063-5KQ42-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2010-5KQ42-0AA0 |
| 3VA21 | 25 | 10 ... 25 | 15 ... 250 | 38 ... 300 | 3VA2125-5KQ42-0AA0 |
| | 40 | 16 ... 40 | 24 ... 400 | 60 ... 480 | 3VA2140-5KQ42-0AA0 |
| | 63 | 25 ... 63 | 38 ... 630 | 95 ... 756 | 3VA2163-5KQ42-0AA0 |
| | 100 | 40 ... 100 | 60 ... 1000 | 150 ... 1200 | 3VA2110-5KQ42-0AA0 |
| | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1600 | 3VA2116-5KQ42-0AA0 |
| 3VA22 | 160 | 63 ... 160 | 96 ... 1600 | 240 ... 1920 | 3VA2216-5KQ42-0AA0 |
| | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 2500 | 3VA2225-5KQ42-0AA0 |
| 3VA23 | 250 | 100 ... 250 | 150 ... 2500 | 375 ... 3000 | 3VA2325-5KQ42-0AA0 |
| | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 4000 | 3VA2340-5KQ42-0AA0 |
| 3VA24 | 400 | 160 ... 400 | 240 ... 4000 | 600 ... 6000[1)] | 3VA2440-5KQ42-0AA0 |
| | 500 | 200 ... 500 | 300 ... 5000 | 750 ... 7000 | 3VA2450-5KQ42-0AA0 |
| | 630 | 250 ... 630 | 378 ... 5670 | 945 ... 5670 | 3VA2463-5KQ42-0AA0 |

[1)] At breaking capacity L 4400 A



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 110 kA at 415 V, very high breaking capacity C (C) See "Overview", p. 2/6 and 2/7 | DT | $I_{cu}$ up to 150 kA at 415 V, extremely high breaking capacity L (L) See "Overview", p. 2/6 and 2/7 |
|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. / Basic price per PU | | Article No. www.siemens.com/product?Article No. / Basic price per PU | | Article No. www.siemens.com/product?Article No. / Basic price per PU |
| A | | | | | | |

### *Line and generator protection, with display, with metering function, ETU850 LSI*

With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and fixed instantaneous short-circuit protection $I_i$, with neutral protection against overload and short circuit from 20 %/40 % to 100 %/160 %

**Connection with box terminal**

| | | | |
|---|---|---|---|
| 25 | 3VA2025-6KP46-0AA0 | 3VA2025-7KP46-0AA0 | 3VA2025-8KP46-0AA0 |
| 40 | 3VA2040-6KP46-0AA0 | 3VA2040-7KP46-0AA0 | 3VA2040-8KP46-0AA0 |
| 63 | 3VA2063-6KP46-0AA0 | 3VA2063-7KP46-0AA0 | 3VA2063-8KP46-0AA0 |
| 100 | 3VA2010-6KP46-0AA0 | 3VA2010-7KP46-0AA0 | 3VA2010-8KP46-0AA0 |
| 25 | 3VA2125-6KP46-0AA0 | 3VA2125-7KP46-0AA0 | 3VA2125-8KP46-0AA0 |
| 40 | 3VA2140-6KP46-0AA0 | 3VA2140-7KP46-0AA0 | 3VA2140-8KP46-0AA0 |
| 63 | 3VA2163-6KP46-0AA0 | 3VA2163-7KP46-0AA0 | 3VA2163-8KP46-0AA0 |
| 100 | 3VA2110-6KP46-0AA0 | 3VA2110-7KP46-0AA0 | 3VA2110-8KP46-0AA0 |
| 160 | 3VA2116-6KP46-0AA0 | 3VA2116-7KP46-0AA0 | 3VA2116-8KP46-0AA0 |

**Connection with lug terminal**

| | | | |
|---|---|---|---|
| 25 | 3VA2025-6KP42-0AA0 | 3VA2025-7KP42-0AA0 | 3VA2025-8KP42-0AA0 |
| 40 | 3VA2040-6KP42-0AA0 | 3VA2040-7KP42-0AA0 | 3VA2040-8KP42-0AA0 |
| 63 | 3VA2063-6KP42-0AA0 | 3VA2063-7KP42-0AA0 | 3VA2063-8KP42-0AA0 |
| 100 | 3VA2010-6KP42-0AA0 | 3VA2010-7KP42-0AA0 | 3VA2010-8KP42-0AA0 |
| 25 | 3VA2125-6KP42-0AA0 | 3VA2125-7KP42-0AA0 | 3VA2125-8KP42-0AA0 |
| 40 | 3VA2140-6KP42-0AA0 | 3VA2140-7KP42-0AA0 | 3VA2140-8KP42-0AA0 |
| 63 | 3VA2163-6KP42-0AA0 | 3VA2163-7KP42-0AA0 | 3VA2163-8KP42-0AA0 |
| 100 | 3VA2110-6KP42-0AA0 | 3VA2110-7KP42-0AA0 | 3VA2110-8KP42-0AA0 |
| 160 | 3VA2116-6KP42-0AA0 | 3VA2116-7KP42-0AA0 | 3VA2116-8KP42-0AA0 |
| 160 | 3VA2216-6KP42-0AA0 | 3VA2216-7KP42-0AA0 | 3VA2216-8KP42-0AA0 |
| 250 | 3VA2225-6KP42-0AA0 | 3VA2225-7KP42-0AA0 | 3VA2225-8KP42-0AA0 |
| 250 | 3VA2325-6KP42-0AA0 | 3VA2325-7KP42-0AA0 | 3VA2325-8KP42-0AA0 |
| 400 | 3VA2340-6KP42-0AA0 | 3VA2340-7KP42-0AA0 | 3VA2340-8KP42-0AA0 |
| 400 | 3VA2440-6KP42-0AA0 | 3VA2440-7KP42-0AA0 | 3VA2440-8KP42-0AA0 |
| 500 | 3VA2450-6KP42-0AA0 | 3VA2450-7KP42-0AA0 | -- |
| 630 | 3VA2463-6KP42-0AA0 | 3VA2463-7KP42-0AA0 | 3VA2463-8KP42-0AA0 |

### *Line and generator protection, with display, with metering function, ETU860 LSIG*

With adjustable overload protection $I_r$, adjustable delayed short-circuit protection $I_{sd}$ and fixed instantaneous short-circuit protection $I_i$, with neutral protection against overload and short circuit from 20 %/40 % to 100 %/160 % and adjustable ground-fault protection $I_g$

**Connection with box terminal**

| | | | |
|---|---|---|---|
| 25 | 3VA2025-6KQ46-0AA0 | 3VA2025-7KQ46-0AA0 | 3VA2025-8KQ46-0AA0 |
| 40 | 3VA2040-6KQ46-0AA0 | 3VA2040-7KQ46-0AA0 | 3VA2040-8KQ46-0AA0 |
| 63 | 3VA2063-6KQ46-0AA0 | 3VA2063-7KQ46-0AA0 | 3VA2063-8KQ46-0AA0 |
| 100 | 3VA2010-6KQ46-0AA0 | 3VA2010-7KQ46-0AA0 | 3VA2010-8KQ46-0AA0 |
| 25 | 3VA2125-6KQ46-0AA0 | 3VA2125-7KQ46-0AA0 | 3VA2125-8KQ46-0AA0 |
| 40 | 3VA2140-6KQ46-0AA0 | 3VA2140-7KQ46-0AA0 | 3VA2140-8KQ46-0AA0 |
| 63 | 3VA2163-6KQ46-0AA0 | 3VA2163-7KQ46-0AA0 | 3VA2163-8KQ46-0AA0 |
| 100 | 3VA2110-6KQ46-0AA0 | 3VA2110-7KQ46-0AA0 | 3VA2110-8KQ46-0AA0 |
| 160 | 3VA2116-6KQ46-0AA0 | 3VA2116-7KQ46-0AA0 | 3VA2116-8KQ46-0AA0 |

**Connection with lug terminal**

| | | | |
|---|---|---|---|
| 25 | 3VA2025-6KQ42-0AA0 | 3VA2025-7KQ42-0AA0 | 3VA2025-8KQ42-0AA0 |
| 40 | 3VA2040-6KQ42-0AA0 | 3VA2040-7KQ42-0AA0 | 3VA2040-8KQ42-0AA0 |
| 63 | 3VA2063-6KQ42-0AA0 | 3VA2063-7KQ42-0AA0 | 3VA2063-8KQ42-0AA0 |
| 100 | 3VA2010-6KQ42-0AA0 | 3VA2010-7KQ42-0AA0 | 3VA2010-8KQ42-0AA0 |
| 25 | 3VA2125-6KQ42-0AA0 | 3VA2125-7KQ42-0AA0 | 3VA2125-8KQ42-0AA0 |
| 40 | 3VA2140-6KQ42-0AA0 | 3VA2140-7KQ42-0AA0 | 3VA2140-8KQ42-0AA0 |
| 63 | 3VA2163-6KQ42-0AA0 | 3VA2163-7KQ42-0AA0 | 3VA2163-8KQ42-0AA0 |
| 100 | 3VA2110-6KQ42-0AA0 | 3VA2110-7KQ42-0AA0 | 3VA2110-8KQ42-0AA0 |
| 160 | 3VA2116-6KQ42-0AA0 | 3VA2116-7KQ42-0AA0 | 3VA2116-8KQ42-0AA0 |
| 160 | 3VA2216-6KQ42-0AA0 | 3VA2216-7KQ42-0AA0 | 3VA2216-8KQ42-0AA0 |
| 250 | 3VA2225-6KQ42-0AA0 | 3VA2225-7KQ42-0AA0 | 3VA2225-8KQ42-0AA0 |
| 250 | 3VA2325-6KQ42-0AA0 | 3VA2325-7KQ42-0AA0 | 3VA2325-8KQ42-0AA0 |
| 400 | 3VA2340-6KQ42-0AA0 | 3VA2340-7KQ42-0AA0 | 3VA2340-8KQ42-0AA0 |
| 400 | 3VA2440-6KQ42-0AA0 | 3VA2440-7KQ42-0AA0 | 3VA2440-8KQ42-0AA0 |
| 500 | 3VA2450-6KQ42-0AA0 | 3VA2450-7KQ42-0AA0 | -- |
| 630 | 3VA2463-6KQ42-0AA0 | 3VA2463-7KQ42-0AA0 | 3VA2463-8KQ42-0AA0 |

*** You can order this quantity or a multiple thereof.**

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

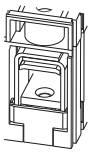



| Connection technology | Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | S function (short-time delayed short-circuit protection "S") $I_{sd}$ | Operating current of the instanta-neous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No. | Basic price per PU |
|---|---|---|---|---|---|---|---|---|
| | | A | A | A | A | | | |

### 3-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A Electronic trip unit



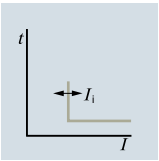
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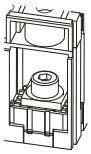


***Starter protection, ETU310M I***
With adjustable short-circuit protection $I_i$

**Connection with box terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA21 | 25 | -- | -- | 75 ... 375 | -- |
| | 40 | -- | -- | 120 ... 600 | -- |
| | 63 | -- | -- | 189 ... 945 | -- |
| | 100 | -- | -- | 300 ... 1500 | -- |



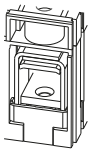



**Connection with lug terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA21 | 25 | -- | -- | 75 ... 375 | -- |
| | 40 | -- | -- | 120 ... 600 | -- |
| | 63 | -- | -- | 189 ... 945 | -- |
| | 100 | -- | -- | 300 ... 1500 | -- |
| 3VA22 | 160 | -- | -- | 480 ... 2400 | -- |
| | 200 | -- | -- | 600 ... 3000 | -- |
| 3VA23 | 250 | -- | -- | 750 ... 3750 | -- |
| 3VA24 | 400 | -- | -- | 1200 ... 6000 | -- |
| | 500 | -- | -- | 1500 ... 7500 | -- |



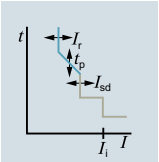
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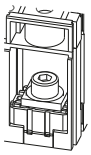


***Motor protection, ETU350M LSI***
With adjustable overload protection $I_r$, (delay adjustable via trip class $T_C$ (10A, 10/10E, 20/20E), adjustable delayed short-circuit protection $I_{sd}$ and fixed instantaneous short-circuit protection $I_i$

**Connection with box terminal**

| | | $I_r$ x ... | | | |
|---|---|---|---|---|---|
| 3VA21 | 25 | 10 ... 25 | 3 ... 15 | 375 | 3VA2125-5MN36-0AA0 |
| | 40 | 16 ... 40 | 3 ... 15 | 600 | 3VA2140-5MN36-0AA0 |
| | 63 | 25 ... 63 | 3 ... 15 | 945 | 3VA2163-5MN36-0AA0 |
| | 100 | 40 ... 100 | 3 ... 15 | 1500 | 3VA2110-5MN36-0AA0 |



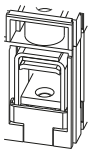



**Connection with screw terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA21 | 25 | 10 ... 25 | 3 ... 15 | 375 | 3VA2125-5MN32-0AA0 |
| | 40 | 16 ... 40 | 3 ... 15 | 600 | 3VA2140-5MN32-0AA0 |
| | 63 | 25 ... 63 | 3 ... 15 | 945 | 3VA2163-5MN32-0AA0 |
| | 100 | 40 ... 100 | 3 ... 15 | 1500 | 3VA2110-5MN32-0AA0 |
| 3VA22 | 160 | 63 ... 160 | 3 ... 15 | 2400 | 3VA2216-5MN32-0AA0 |
| | 200 | 80 ... 200 | 3 ... 15 | 3000 | 3VA2220-5MN32-0AA0 |
| 3VA23 | 250 | 100 ... 250 | 3 ... 15 | 3750 | 3VA2325-5MN32-0AA0 |
| 3VA24 | 400 | 160 ... 400 | 3 ... 15 | 6000 | 3VA2440-5MN32-0AA0 |
| | 500 | 200 ... 500 | 3 ... 15 | 7500 | 3VA2450-5MN32-0AA0 |



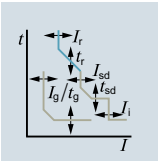
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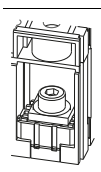


***Motor protection, with display, with metering function, ETU860M LSIG***
With adjustable overload protection $I_r$ (delay adjustable either via trip class $T_C$ (10A, 10/10E, 20/20E, 30/30E) or directly via $T_P$ in the range of 3 ... 30 s at 7.2 x $I$ (depending on size)), adjustable delayed short-circuit protection $I_{sd}$, and adjustable instantaneous short-circuit protection $I_i$, and fixed ground-fault protection $I_g$

**Connection with box terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA21 | 25 | 10 ... 25 | 38 ... 375 | 75 ... 375 | 3VA2125-5MQ36-0AA0 |
| | 40 | 16 ... 40 | 60 ... 600 | 120 ... 600 | 3VA2140-5MQ36-0AA0 |
| | 63 | 25 ... 63 | 95 ... 945 | 189 ... 945 | 3VA2163-5MQ36-0AA0 |
| | 100 | 40 ... 100 | 150 ... 1500 | 300 ... 1500 | 3VA2110-5MQ36-0AA0 |



**Connection with screw terminal**

| | | | | | |
|---|---|---|---|---|---|
| 3VA21 | 25 | 10 ... 25 | 30 ... 375 | 75 ... 375 | 3VA2125-5MQ32-0AA0 |
| | 40 | 16 ... 40 | 48 ... 600 | 120 ... 600 | 3VA2140-5MQ32-0AA0 |
| | 63 | 25 ... 63 | 76 ... 945 | 189 ... 945 | 3VA2163-5MQ32-0AA0 |
| | 100 | 40 ... 100 | 120 ... 1500 | 300 ... 1500 | 3VA2110-5MQ32-0AA0 |
| 3VA22 | 160 | 63 ... 160 | 192 ... 2400 | 480 ... 2400 | 3VA2216-5MQ32-0AA0 |
| | 200 | 80 ... 200 | 240 ... 3000 | 600 ... 3000 | 3VA2220-5MQ32-0AA0 |
| 3VA23 | 250 | 100 ... 250 | 300 ... 3750 | 750 ... 3750 | 3VA2325-5MQ32-0AA0 |
| 3VA24 | 400 | 160 ... 400 | 480 ... 6000 | 1200 ... 6000 | 3VA2440-5MQ32-0AA0 |
| | 500 | 200 ... 500 | 600 ... 7500 | 1500 ... 7500 | 3VA2450-5MQ32-0AA0 |



* You can order this quantity or a multiple thereof.

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PU (UNIT, SET, M) = 1 PS*/P. unit = 1 unit PG = 1CB

| Rated current $I_n$ | DT | $I_{cu}$ up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7 | | DT | $I_{cu}$ up to 110 kA at 415 V, very high breaking capacity C (C) See "Overview", p. 2/6 and 2/7 | |
|---|---|---|---|---|---|---|
| | | Article No. www.siemens.com/product?Article No. | Basic price per PU | | Article No. www.siemens.com/product?Article No. | Basic price per PU |
| A | | | | | | |
| ***Starter protection, ETU310M I*** With adjustable short-circuit protection $I_i$ | | | | | | |
| | | **Connection with box terminal** | | | **Connection with box terminal** | |
| 25 | | -- | | | 3VA2125-7MS36-0AA0 | |
| 40 | | -- | | | 3VA2140-7MS36-0AA0 | |
| 63 | | -- | | | 3VA2163-7MS36-0AA0 | |
| 100 | | -- | | | 3VA2110-7MS36-0AA0 | |
| | | **Connection with lug terminal** | | | **Connection with lug terminal** | |
| 25 | | -- | | | 3VA2125-7MS32-0AA0 | |
| 40 | | -- | | | 3VA2140-7MS32-0AA0 | |
| 63 | | -- | | | 3VA2163-7MS32-0AA0 | |
| 100 | | -- | | | 3VA2110-7MS32-0AA0 | |
| 160 | | -- | | | 3VA2216-7MS32-0AA0 | |
| 200 | | -- | | | 3VA22 20-7MS32-0AA0 | |
| 250 | | -- | | | 3VA2325-7MS32-0AA0 | |
| 400 | | -- | | | 3VA2440-7MS32-0AA0 | |
| 500 | | -- | | | 3VA2450-7MS32-0AA0 | |
| ***Motor protection, ETU350M LSI*** With adjustable overload protection $I_r$ (delay adjustable via trip class $T_C$ (10A, 10/10E, 20/20E), adjustable delayed short-circuit protection $I_{sd}$ and fixed instantaneous short-circuit protection $I_i$ | | | | | | |
| | | **Connection with box terminal** | | | **Connection with box terminal** | |
| 25 | | -- | | | 3VA2125-7MN36-0AA0 | |
| 40 | | -- | | | 3VA2140-7MN36-0AA0 | |
| 63 | | -- | | | 3VA2163-7MN36-0AA0 | |
| 100 | | -- | | | 3VA2110-7MN36-0AA0 | |
| | | **Connection with lug terminal** | | | **Connection with lug terminal** | |
| 25 | | -- | | | 3VA2125-7MN32-0AA0 | |
| 40 | | -- | | | 3VA2140-7MN32-0AA0 | |
| 63 | | -- | | | 3VA2163-7MN32-0AA0 | |
| 100 | | -- | | | 3VA2110-7MN32-0AA0 | |
| 160 | | -- | | | 3VA2216-7MN32-0AA0 | |
| 200 | | -- | | | 3VA2220-7MN32-0AA0 | |
| 250 | | -- | | | 3VA2325-7MN32-0AA0 | |
| 400 | | -- | | | 3VA2440-7MN32-0AA0 | |
| 500 | | -- | | | 3VA2450-7MN32-0AA0 | |
| ***Motor protection, with display, with metering function, ETU860M LSIG*** With adjustable overload protection $I_r$ (delay adjustable either via trip class $T_C$ (10A, 10/10E, 20/20E, 30/30E) or directly via $T_P$ in the range of 3 ... 30 s at 7.2 x $I$ (depending on size)), adjustable delayed short-circuit protection $I_{sd}$, and adjustable instantaneous short-circuit protection $I_i$, and fixed ground-fault protection $I_g$ | | | | | | |
| | | **Connection with box terminal** | | | **Connection with box terminal** | |
| 25 | | -- | | | 3VA2125-7MQ36-0AA0 | |
| 40 | | -- | | | 3VA2140-7MQ36-0AA0 | |
| 63 | | -- | | | 3VA2163-7MQ36-0AA0 | |
| 100 | | -- | | | 3VA2110-7MQ36-0AA0 | |
| | | **Connection with lug terminal** | | | **Connection with lug terminal** | |
| 25 | | -- | | | 3VA2125-7MQ32-0AA0 | |
| 40 | | -- | | | 3VA2140-7MQ32-0AA0 | |
| 63 | | -- | | | 3VA2163-7MQ32-0AA0 | |
| 100 | | -- | | | 3VA2110-7MQ32-0AA0 | |
| 160 | | -- | | | 3VA2216-7MQ32-0AA0 | |
| 200 | | -- | | | 3VA2220-7MQ32-0AA0 | |
| 250 | | -- | | | 3VA2325-7MQ32-0AA0 | |
| 400 | | -- | | | 3VA2440-7MQ32-0AA0 | |
| 500 | | -- | | | 3VA2450-7MQ32-0AA0 | |

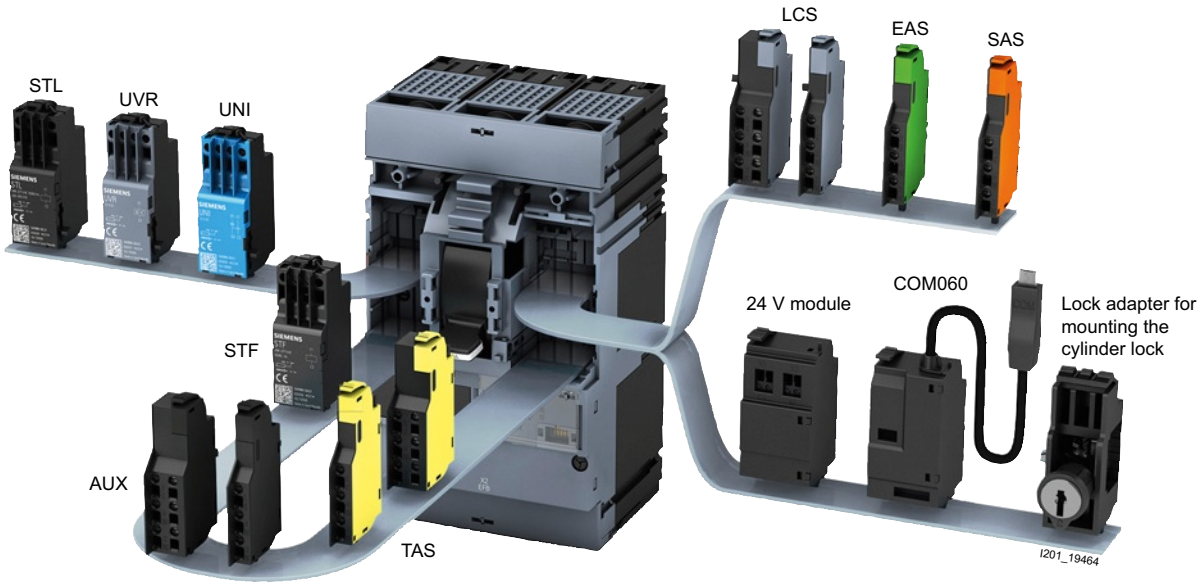
*** You can order this quantity or a multiple thereof.**

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## Overview

### *Color coding of accessories*




A color coding system has been used to clearly identify the specific functions of individual accessories:

| Color | Auxiliary switches and alarm switches | Auxiliary release |
|---|---|---|
| Black | Auxiliary switch AUX | • Shunt trip left STL<br>• Shunt trip flexible STF |
| Gray | Leading changeover switch LCS | • Undervoltage release UVR |
| Yellow | Trip alarm switches TAS | -- |
| Orange | Short circuit alarm switch SAS | -- |
| Green | Electrical alarm switch EAS | -- |
| Blue | -- | Universal release UNI |

### *Auxiliary switches*

All auxiliary and alarm switches for the 3VA molded case circuit breakers and switch disconnectors belong to an integrated range of accessories. The auxiliary switches can be simply snapped into place and connected up in the accessories compartment provided on the front face of the unit to the left and right of the handle.

The purpose of the auxiliary switches AUX is to signal the position of the main contacts of the molded case circuit breaker. The contacts of the auxiliary switches open and close simultaneously with the main contacts of the molded case circuit breaker.

Leading changeover switches LCS signal the opening of the main contacts with a lead time of 20 ms in advance of the circuit breaker trips and are used for load shedding, for example.

Trip alarm switches TAS signal every circuit breaker tripping operation, regardless of the cause of the trip. The trip alarm switches are actuated whenever the molded case circuit breaker switches to the TRIP position.

Electrical alarm switches EAS are actuated as soon as the main contacts of the molded case circuit breaker open in the event that the breaker is tripped by the ETU.

Special electronic-compatible variants are available for applications which require the auxiliary switch signals to be linked to automation systems.

### *Auxiliary release*

Auxiliary releases allow remote electrical tripping of the circuit breaker. They can be used to monitor control or main circuits in order to implement a protective system against accidental restart following a power failure, for example.

Undervoltage releases trip the 3VA molded case circuit breaker in the event that the rated voltage of a monitored circuit drops below a minimum permissible limit or fails altogether.

Shunt trips can be used to trip the 3VA molded case circuit breaker remotely. The STF variant can be mounted in either the left-hand or the right-hand accessories compartment. The STL and STL (EI) types are specifically designed for mounting in the left-hand compartment and are very low-consumption devices. The STL (EI) variant can be used to implement electrical interlocks between molded case circuit breakers.

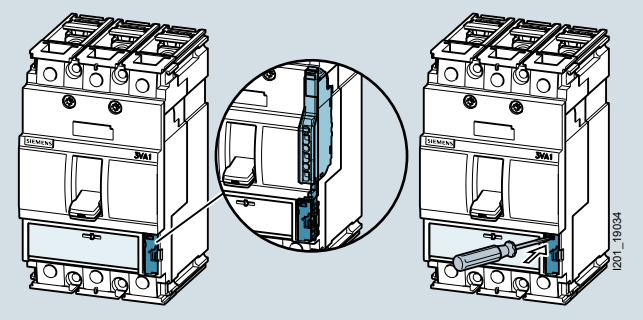
A universal release is a single, 21 mm wide component in which a shunt trip and an undervoltage release are combined. These are subject to the same tripping conditions as the individual devices.

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### *Short circuit alarm switch SAS*

Short circuit alarm switches signal tripping operations only if they have been initiated by a short circuit. Tripping due to a short circuit is also indicated on the molded case circuit breaker.




The tripping operation must be reset by deliberate acknowledgement of the fault before the molded case circuit breaker can be switched to ON again.

Note

Short circuit alarm switches are only compatible with 3VA1 molded case circuit breakers. On breakers equipped with electronic trip units, the short circuit alarm function is performed by the electronic trip unit (ETU) and the EFB external function box.

## Benefits

- The internal accessories are extremely easy to install. No tools are required because they are simply snapped into place in the accessories compartments to the left and right of the handle.
- The accessories are connected by screw terminals for auxiliary conductors with a cross-section of up to 2.5 $mm^2$. The terminals are mounted on the front of the unit for easy access.
- All auxiliary and alarm switches are designed as changeover contacts and therefore provide a high degree of flexibility for planning and installation purposes.
- Slimline auxiliary and alarm switches HQ and double-width auxiliary and alarm switches HP are suitable for use in applications involving diverse types of signaling contact and with high continuous currents.
- With two conductors per contact point for the auxiliary and alarm switches HP, looping through is extremely easy.
- Symbols engraved in the lid of the accessories compartment indicate the possible mounting positions of the internal accessories.

### *3VA with internal accessories pre-assembled at the factory*

The basic circuit breakers with -0AA0 at the end of the article number are supplied without installed internal accessories.

Due to the high number of different internal accessory components available and the associated flexibility of use, it is not possible to represent all options with an article number for circuit breakers and installed internal accessories.

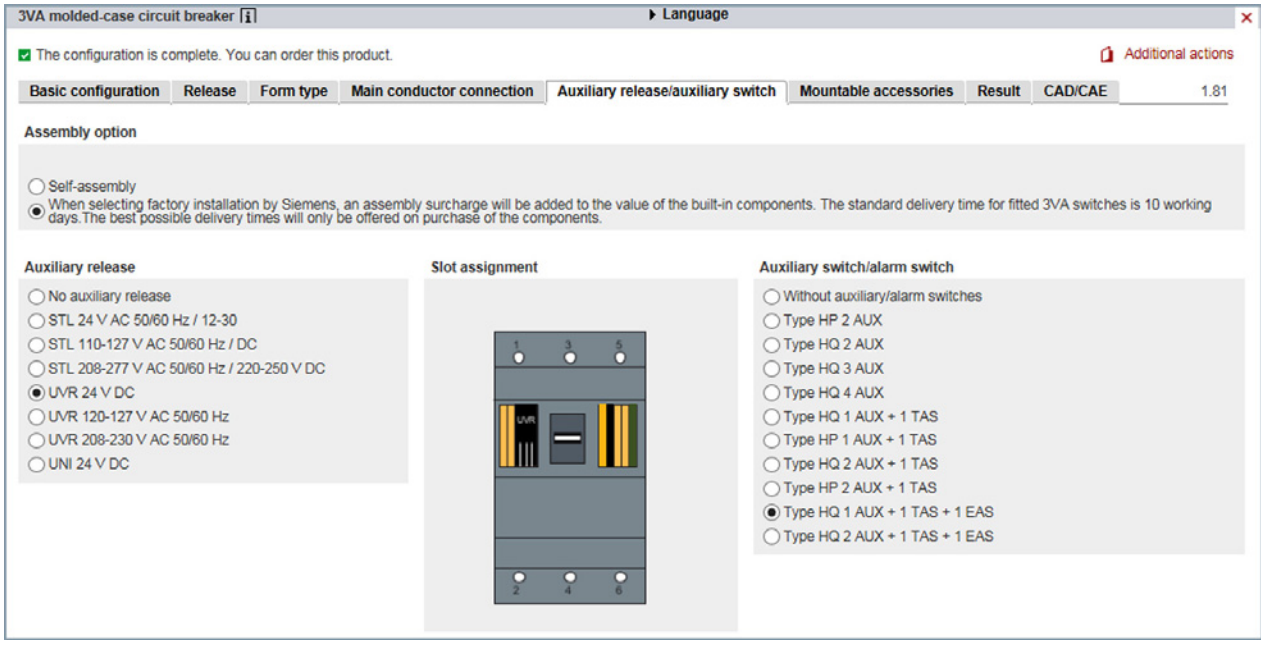
However, it is possible to order a basic circuit breaker with pre-defined combinations of internal accessories that are installed at the factory. This concerns a selection of different auxiliary releases and auxiliary/alarm switch combinations especially for each basic circuit breaker type.

In the case of factory installation, an installation surcharge is levied for the installed internal accessories.

The normal delivery time for equipped 3VA breakers is 10 working days. The best possible delivery times are only achieved when the individual components are ordered.

Basic circuit breakers with pre-installed internal accessories can only be ordered by registered customers using the 3VA Configurator:

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



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## Design

| Internal accessories<br>Optional equipment | | 3VA1<br>160 A<br>2-pole | 3VA1<br>100 A<br>3- and 4-pole | 3VA1<br>160 A<br>3- and 4-pole | 3VA1<br>250 A<br>3- and 4-pole |
|---|---|---|---|---|---|
| **Slot No.:** | | 23 22 21 160 A | 23 22 21 100 A 11 12 13 | 23 22 21 160 A 11 12 13 | 24 23 22 21 250 A 11 12 13 14 |
| **Auxiliary switch** | **Type** | | | | |
| Auxiliary switch | AUX_HQ | x x x | x x x x x x | x x x x x x | x x x x x x x x |
| | AUX_HQ_el | x x x | x x x x x x | x x x x x x | x x x x x x x x |
| | AUX_HP | x / x | / x | x / x | x x / x x |
| Leading changeover switch | LCS_HQ | | | x | x |
| | LCS_HQ_el | | | x | x |
| | LCS_HP | | | x | x |
| **Alarm switch** | **Type** | | | | |
| Trip alarm switch | TAS_HQ | x x | x x x x | x x x x | x x x x |
| | TAS_HQ_el | x x | x x x x | x x x x | x x x x |
| | TAS_HP | x | x | x | x |
| Short circuit alarm switch | SAS_HQ | | | x | x |
| | SAS_HQ_el | | | x | x |
| **Auxiliary release** | **Type** | | | | |
| Shunt trip flexible | STF | x | x | x | x |
| Shunt trip left | STL | x | x | x | x |
| | STL (EI) | x | x | x | x |
| Residual current release | RCR [1] | | x | x | x |
| Undervoltage release | UVR | x | x | x | x |
| Universal release | UNI | x | x | x | x |
| **Other** | | | | | |
| Cylinder lock (type Ronis) | | | x | x | x |

[1] Included in the scope of supply for side mounted residual current devices

I201_19033

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| **Internal accessories**<br>**Optional equipment**<br><br>**Slot No.:** | | 3VA2 100/160/250 A 3-pole<br>24 23 22 21 250 A 11 12 13 14 | 3VA2 100/160/250 A 4-pole<br>34 33 32 31 24 23 22 21 250 A 11 12 13 14 |
|---|---|---|---|
| **Auxiliary switch** | **Type** | | |
| Auxiliary switch | AUX_HQ | x x x x x x x x | x x x x x x x x x x x x x x x x |
| | AUX_HQ_el | x x x x x x x x | x x x x x x x x x x x x x x x x |
| | AUX_HP | x x x x x x | x x x x x x x x x x |
| Leading changeover switch | LCS_HQ | x | x |
| | LCS_HQ_el | x | x |
| | LCS_HP | x | x |
| **Alarm switch** | **Type** | | |
| Trip alarm switch | TAS_HQ | x x x x | x x x x x x x x |
| | TAS_HQ_el | x x x x | x x x x x x x x |
| | TAS_HP | x x | x x |
| Electrical alarm switch | EAS_HQ | x | x |
| | EAS_HQ_el | x | x |
| **Auxiliary release** | **Type** | | |
| Shunt trip flexible | STF | x x | x x |
| Shunt trip left | STL | x | x |
| | STL (EI) | x | x |
| Undervoltage release | UVR | x | x |
| Universal release | UNI | x | x |
| **ETU/communication** | **Type** | | |
| Breaker data server communication module | COM060 | x | x |
| 24 V module | | x | x |
| **Other** | | | |
| Cylinder lock (type Ronis) | | x | x |

I201_18812

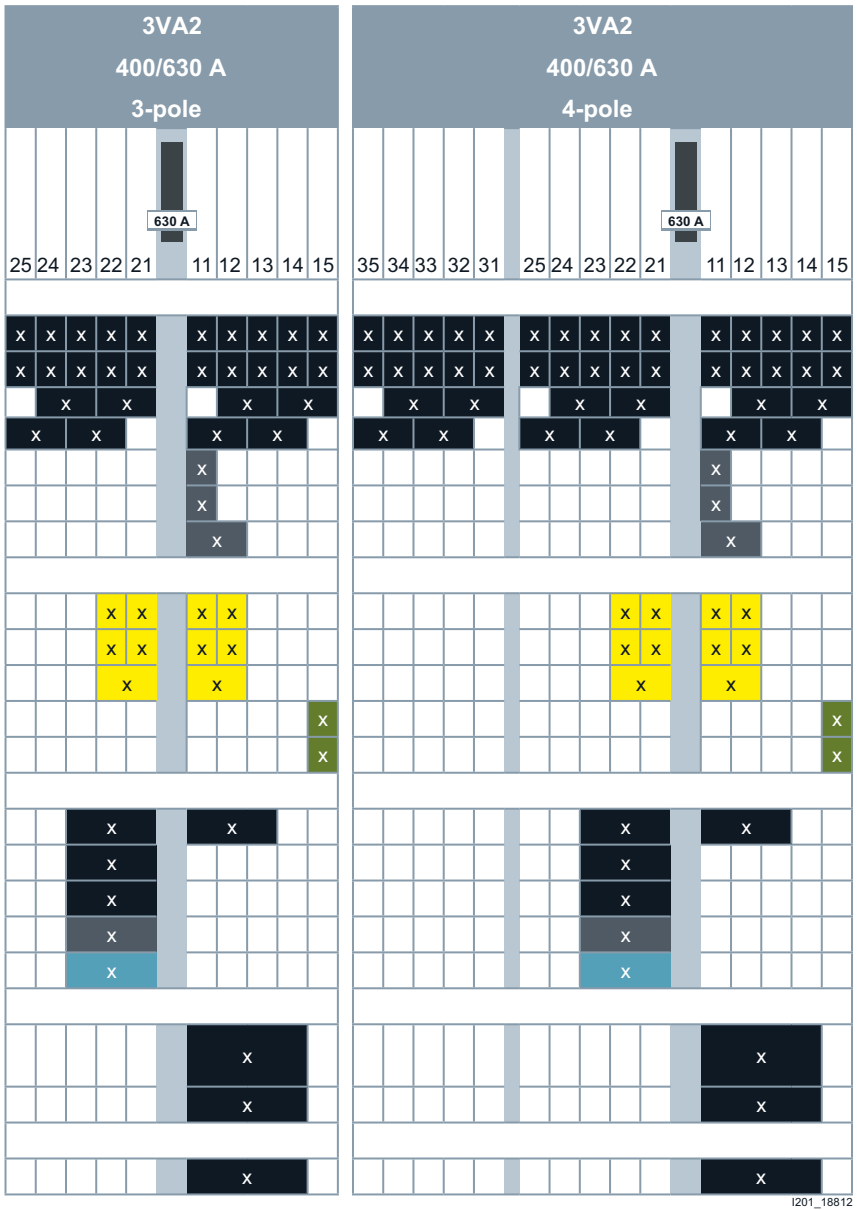
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## Internal accessories

2

### Internal accessories
### Optional equipment

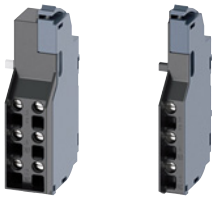
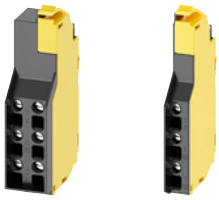



| Slot No.: | |
|---|---|
| **Auxiliary switch** | **Type** |
| Auxiliary switch | AUX_HQ |
| | AUX_HQ_el |
| | AUX_HP |
| Leading changeover switch | LCS_HQ |
| | LCS_HQ_el |
| | LCS_HP |
| **Alarm switch** | **Type** |
| Trip alarm switch | TAS_HQ |
| | TAS_HQ_el |
| | TAS_HP |
| Electrical alarm switch | EAS_HQ |
| | EAS_HQ_el |
| **Auxiliary release** | **Type** |
| Shunt trip flexible | STF |
| Shunt trip left | STL |
| | STL (EI) |
| Undervoltage release | UVR |
| Universal release | UNI |
| **ETU/communication** | **Type** |
| Breaker data server communication module | COM060 |
| 24 V module | |
| **Other** | |
| Cylinder lock (type Ronis) | |

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## Selection and ordering data

| | Version | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|
| **Auxiliary Switches and Alarm Switches** | | | | | | | | |
|  3VA9988-0AA11 3VA9988-0AA12 | **Auxiliary switch AUX** | | | | | | | |
| | Type/switching capacity/size | Electronic-compatible | | | | | | |
| | HP/high switching capacity/2 slots | -- | | 3VA9988-0AA11 | | 1 | 1 unit | 1CB |
| | HQ/compact size/1 slot | -- | | 3VA9988-0AA12 | | 1 | 1 unit | 1CB |
| | HQ_el/compact size/1 slot | ✓ | | 3VA9988-0AA13 | | 1 | 1 unit | 1CB |
|  3VA9988-0AA21 3VA9988-0AA22 | **Leading changeover switch LCS** | | | | | | | |
| | Type/switching capacity/size | Electronic-compatible | | | | | | |
| | HP/high switching capacity/2 slots | -- | | 3VA9988-0AA21 | | 1 | 1 unit | 1CB |
| | HQ/compact size/1 slot | -- | | 3VA9988-0AA22 | | 1 | 1 unit | 1CB |
| | HQ_el/compact size/1 slot | ✓ | | 3VA9988-0AA23 | | 1 | 1 unit | 1CB |
|  3VA9988-0AB11 3VA9988-0AB12 | **Trip alarm switch TAS** | | | | | | | |
| | Type/switching capacity/size | Electronic-compatible | | | | | | |
| | HP/high switching capacity/2 slots | -- | | 3VA9988-0AB11 | | 1 | 1 unit | 1CB |
| | HQ/compact size/1 slot | -- | | 3VA9988-0AB12 | | 1 | 1 unit | 1CB |
| | HQ_el/compact size/1 slot | ✓ | | 3VA9988-0AB13 | | 1 | 1 unit | 1CB |
|  3VA9988-0AB32 | **Short-circuit alarm switches SAS (3VA1 only)** | | | | | | | |
| | For molded case circuit breakers, frame size | Electronic-compatible | | | | | | |
| | For 3VA1 100 A/160 A | | | | | | | |
| | • HQ/compact size/1 slot | -- | | 3VA9988-0AB32 | | 1 | 1 unit | 1CB |
| | • HQ_el/compact size/1 slot | ✓ | | 3VA9988-0AB33 | | 1 | 1 unit | 1CB |
| | For 3VA1 250 A | | | | | | | |
| | • HQ/compact size/1 slot | -- | | 3VA9988-0AB34 | | 1 | 1 unit | 1CB |
| | • HQ_el/compact size/1 slot | ✓ | | 3VA9988-0AB35 | | 1 | 1 unit | 1CB |
|  3VA9988-0AB22 | **Electrical alarm switches EAS (3VA2 only)** | | | | | | | |
| | Type/switching capacity/size | Electronic-compatible | | | | | | |
| | HQ/compact size/1 slot | -- | | 3VA9988-0AB22 | | 1 | 1 unit | 1CB |
| | HQ_el/compact size/1 slot | ✓ | | 3VA9988-0AB23 | | 1 | 1 unit | 1CB |
| **Undervoltage releases** | | | | | | | | |
|  3VA9908-0BB15 | **Undervoltage release UVR** | | | | | | | |
| | 50/60 Hz V AC | V DC | | | | | | |
| | -- | 12 | | 3VA9908-0BB10 | | 1 | 1 unit | 1CB |
| | -- | 24 | | 3VA9908-0BB11 | | 1 | 1 unit | 1CB |
| | -- | 48 | | 3VA9908-0BB12 | | 1 | 1 unit | 1CB |
| | -- | 60 | | 3VA9908-0BB13 | | 1 | 1 unit | 1CB |
| | -- | 125 ... 127 | | 3VA9908-0BB14 | | 1 | 1 unit | 1CB |
| | -- | 220 ... 230 | | 3VA9908-0BB15 | | 1 | 1 unit | 1CB |
| | -- | 250 | | 3VA9908-0BB16 | | 1 | 1 unit | 1CB |
| | 24 | -- | | 3VA9908-0BB20 | | 1 | 1 unit | 1CB |
| | 48 | -- | | 3VA9908-0BB21 | | 1 | 1 unit | 1CB |
| | 60 | -- | | 3VA9908-0BB22 | | 1 | 1 unit | 1CB |
| | 110 | -- | | 3VA9908-0BB23 | | 1 | 1 unit | 1CB |
| | 120 ... 127 | -- | | 3VA9908-0BB24 | | 1 | 1 unit | 1CB |
| | 208 ... 230 | -- | | 3VA9908-0BB25 | | 1 | 1 unit | 1CB |
| | 380 ... 400 | -- | | 3VA9908-0BB26 | | 1 | 1 unit | 1CB |
| | 440 ... 480 | -- | | 3VA9908-0BB27 | | 1 | 1 unit | 1CB |

*** You can order this quantity or a multiple thereof.**

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## Internal accessories

### Shunt trip left



3VA9988-0BL33

**Shunt trip left STL**

| Version 50/60 Hz V AC | V DC | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|
| -- | 12 | | 3VA9988-0BL10 | | 1 | 1 unit | 1CB |
| 24 | 24 ... 30 | | 3VA9988-0BL30 | | 1 | 1 unit | 1CB |
| 110 ... 127 | 110 ... 127 | | 3VA9988-0BL32 | | 1 | 1 unit | 1CB |
| 208 ... 277 | 220 ... 250 | | 3VA9988-0BL33 | | 1 | 1 unit | 1CB |
| -- | 12 | | 3VA9988-0BL10 | | 1 | 1 unit | 1CB |
| 380 ... 600 | -- | | 3VA9988-0BL20 | | 1 | 1 unit | 1CB |

**Shunt trip left STL (EI)**

| 50/60 Hz V AC | V DC | | | | | | |
|---|---|---|---|---|---|---|---|
| -- | 24 | | 3VA9988-0BM10 | | 1 | 1 unit | 1CB |

### Shunt trip flexible STF



3VA9988-0BA23

**Shunt trip flexible**

| 50/60 Hz V AC | V DC | | | | | | |
|---|---|---|---|---|---|---|---|
| 24 | -- | | 3VA9988-0BA20 | | 1 | 1 unit | 1CB |
| 48 ... 60 | -- | | 3VA9988-0BA21 | | 1 | 1 unit | 1CB |
| 110 ... 127 | -- | | 3VA9988-0BA22 | | 1 | 1 unit | 1CB |
| 208 ... 277 | -- | | 3VA9988-0BA23 | | 1 | 1 unit | 1CB |
| 380 ... 500 | -- | | 3VA9988-0BA24 | | 1 | 1 unit | 1CB |
| 600 | -- | | 3VA9988-0BA25 | | 1 | 1 unit | 1CB |

### Universal release UNI



3VA9908-0BD13

**Universal release**

| 50/60 Hz V AC | V DC | | | | | | |
|---|---|---|---|---|---|---|---|
| -- | 12 | | 3VA9908-0BD11 | | 1 | 1 unit | 1CB |
| -- | 24 | | 3VA9908-0BD12 | | 1 | 1 unit | 1CB |
| -- | 48 | | 3VA9908-0BD13 | | 1 | 1 unit | 1CB |

### Time-delay device for undervoltage releases


3VA9988-0BF22

**Time-delay device**

| V AC | V DC | Delay time | | | | | |
|---|---|---|---|---|---|---|---|
| 110 | 110 | Fixed | 3VA9988-0BF21 | | 1 | 1 unit | 1CB |
| 230 | 230 | Fixed | 3VA9988-0BF22 | | 1 | 1 unit | 1CB |
| -- | 24 | Fixed | 3VA9988-0BF23 | | 1 | 1 unit | 1CB |



* You can order this quantity or a multiple thereof.

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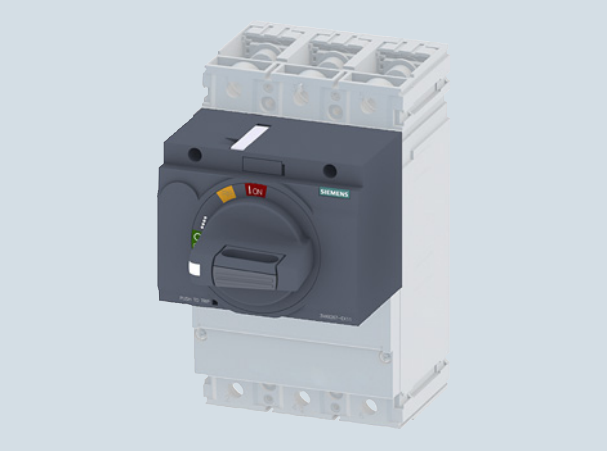


## Overview

Manual operators are provided to facilitate manual operation of the 3VA molded case circuit breakers, either directly at the circuit breaker or through the door or side wall of the cubicle.

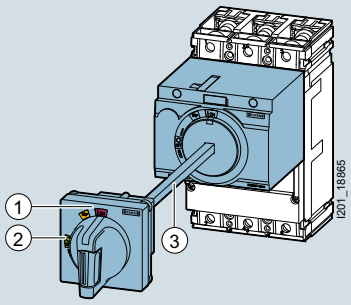
### *Front mounted rotary operators*

The front mounted rotary operator is mounted directly on the molded case circuit breaker and is available with or without a door interlocking system. It meets the requirements for degree of protection IP30. The door interlock locks the cubicle door when the molded case circuit breaker is closed, but can be deliberately overridden if necessary.



### *Door mounted rotary operator*

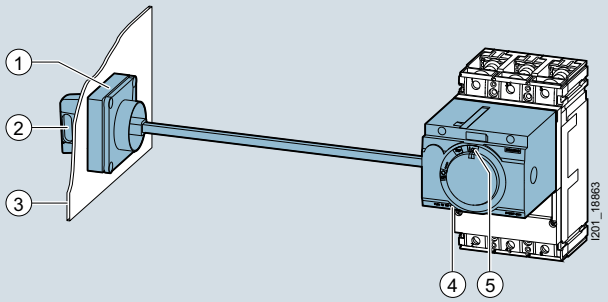
The door mounted rotary operator enables operation of the molded case circuit breaker from the cubicle door. The door element meets the requirements for degree of protection IP65 and features a door interlocking system and tolerance compensation. A variable depth adapter can be deployed to allow use of the door mounted rotary operator in conjunction with draw-out units. A supplementary handle can be attached directly to the shaft shoulder to allow convenient operation of the molded case circuit breaker when the cubicle door is open (i.e. when the control element is decoupled).




1 Door element
2 Switching position indicator ON, TRIP, OFF, RESET
3 Shaft

### *Side wall mounted rotary operators*

The side wall mounted rotary operator is designed for installation in the cubicle side wall. It is available optionally with short shaft and mounting plate for mounting directly adjacent to the cubicle wall. The wall element meets the requirements for degree of protection IP65.




1 Side wall mounted rotary operator
2 Padlock device
3 Side wall of cubicle
4 PUSH-to-TRIP button
5 Switching position indicator ON, TRIP, OFF, RESET

All manual operators as well as the supplementary handle for the door mounted rotary operator are also available in a version for use in EMERGENCY OFF applications. These are colored a conspicuous yellow/red for easier identification.

### *Interlocking methods*

All manual operators are designed to allow locking of the operator at the handle and at the rotary operator with up to three padlocks in each case. It is also possible to fit a cylinder lock which can be used either to lock or to interlock molded case circuit breakers depending on the application.

If the cylinder lock is applied as a lock, it can be used to prevent the molded case circuit breaker from closing. The key can be removed at any time. If the lock is used to create an interlock, the key can be removed only when it is in the OFF position, allowing the creation of an interlock by the use of a single key for several breakers.

### *Active illumination*

The manual operators are also available in illuminated variants in which the handle is illuminated red, yellow or green via LEDs (24 V DC) depending on the position of the breaker. This means that the switching position of the molded case circuit breaker can be immediately identified, even when light conditions are poor. This option can also be retrofitted.

## Benefits

- Convenient circuit breaker operation inside and outside the cubicle
- Locking and interlocking for all manual operators prevents unauthorized breaker operation
- Conspicuously colored variant for EMERGENCY OFF circuits
- Illumination for clear indication of switching position even when light conditions are poor
- All manual operators meet the standards for isolating characteristics defined by IEC / EN 60947-1

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## Selection and ordering data

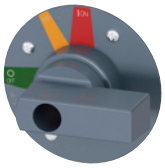
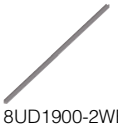
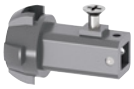
| Version | | For molded case circuit breakers/ frame size 3VA1 100 A, 160 A | 3VA1 250 A | 3VA2 100 A, 160 A, 250 A | 3VA2 400 A, 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Front mounted rotary operators** | | | | | | | | | | | |
|  3VA9267-0EK11 | **Front mounted rotary operators**<br>• Rotary operating mechanisms<br>• Handle<br>• For IEC<br>• Degree of protection IP30 | | | | | | | | | | |
| Type | Color | | | | | | | | | | |
| • Standard, without illumination kit | Gray | ✓ | -- | -- | -- | | 3VA9157-0EK11 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9257-0EK11 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9267-0EK11 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9467-0EK11 | | 1 | 1 unit | 1CB |
| • Standard, with illumination kit | Gray | ✓ | -- | -- | -- | | 3VA9157-0EK13 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9257-0EK13 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9267-0EK13 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9467-0EK13 | | 1 | 1 unit | 1CB |
| • EMERGENCY OFF, without illumination kit | Yellow-red | ✓ | -- | -- | -- | | 3VA9157-0EK15 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9257-0EK15 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9267-0EK15 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9467-0EK15 | | 1 | 1 unit | 1CB |
| • EMERGENCY OFF, with illumination kit | Yellow-red | ✓ | -- | -- | -- | | 3VA9157-0EK17 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9257-0EK17 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9267-0EK17 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9467-0EK17 | | 1 | 1 unit | 1CB |
| • Standard, with door interlock | Gray | ✓ | -- | -- | -- | | 3VA9157-0EK21 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9257-0EK21 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9267-0EK21 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9467-0EK21 | | 1 | 1 unit | 1CB |
| • Standard, with door interlock, with illumination kit | Gray | ✓ | -- | -- | -- | | 3VA9157-0EK23 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9257-0EK23 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9267-0EK23 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9467-0EK23 | | 1 | 1 unit | 1CB |
| • EMERGENCY OFF, with door interlock | Yellow-red | ✓ | -- | -- | -- | | 3VA9157-0EK25 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9257-0EK25 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9267-0EK25 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9467-0EK25 | | 1 | 1 unit | 1CB |
| • EMERGENCY OFF, with door interlock, with illumination kit | Yellow-red | ✓ | -- | -- | -- | | 3VA9157-0EK27 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9257-0EK27 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9267-0EK27 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9467-0EK27 | | 1 | 1 unit | 1CB |
|  3VA9267-0GK00 | • Without handle, with shaft stub, without door interlock<br>• For retrofitting with 3VL handle | Gray | ✓ | -- | -- | -- | | 3VA9157-0GK00 | | 1 | 1 unit | 1CB |
| | | | -- | ✓ | -- | -- | | 3VA9257-0GK00 | | 1 | 1 unit | 1CB |
| | | | -- | -- | ✓ | -- | | 3VA9267-0GK00 | | 1 | 1 unit | 1CB |
| | | | -- | -- | -- | ✓ | | 3VA9467-0GK00 | | 1 | 1 unit | 1CB |



* You can order this quantity or a multiple thereof.

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| | Version | For molded case circuit breakers/ frame size 3VA1 100 A, 160 A | 3VA1 250 A | 3VA2 100 A, 160 A, 250 A | 3VA2 400 A, 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Door mounted rotary operator** | | | | | | | | | | | |
|  3VA9267-0FK21 | **Door mounted rotary operator**<br>• Rotary operating mechanisms<br>• Shaft 300 mm<br>• Mounting tolerance compensation<br>• Handle with masking plate 75 × 75 mm<br>• Degree of protection IP65 | | | | | | | | | | |
| | Type / Color | | | | | | | | | | |
| | • Standard, Gray | ✓ | -- | -- | -- | | 3VA9157-0FK21 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9257-0FK21 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9267-0FK21 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9467-0FK21 | | 1 | 1 unit | 1CB |
| | • Standard, with illumination kit, Gray | ✓ | -- | -- | -- | | 3VA9157-0FK23 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9257-0FK23 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9267-0FK23 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9467-0FK23 | | 1 | 1 unit | 1CB |
| | • EMERGENCY OFF, Yellow-red | ✓ | -- | -- | -- | | 3VA9157-0FK25 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9257-0FK25 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9267-0FK25 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9467-0FK25 | | 1 | 1 unit | 1CB |
| | • EMERGENCY OFF, with illumination kit, Yellow-red | ✓ | -- | -- | -- | | 3VA9157-0FK27 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9257-0FK27 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9267-0FK27 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9467-0FK27 | | 1 | 1 unit | 1CB |
|  3VA9487-0GC01 | **Supplementary handle for door mounted rotary operator** | | | | | | | | | | |
| | Type / Color | | | | | | | | | | |
| | • Standard, Gray | ✓ | ✓ | -- | -- | | 3VA9287-0GC01 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9487-0GC01 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9487-0GC11 | | 1 | 1 unit | 1CB |
| | • EMERGENCY OFF, Yellow-red | ✓ | ✓ | -- | -- | | 3VA9287-0GC05 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9487-0GC05 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9487-0GC15 | | 1 | 1 unit | 1CB |
|  8UD1900-2WB00 | **Shaft**<br>8 mm | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| | • 300 mm long | | | | | | 8UD1900-2WA00 | | 1 | 1 unit | 1CB |
| | • 600 mm long | | | | | | 8UD1900-2WB00 | | 1 | 1 unit | 1CB |
|  8UD1900-2DA00 | **Adapter for shaft 8 mm x 8 mm**<br>With door mounted rotary operator and side wall mounted rotary operator | | | | | | 8UD1900-2DA00 | | 1 | 1 unit | 1CB |
|  8UD1900-2HA00 | **Door coupling**<br>8 × 8 mm | | | | | | 8UD1900-2HA00 | | 1 | 1 unit | 1CB |
|  3VA9487-0GA80 | **Fixing bracket for shaft** | ✓ | ✓ | -- | -- | | 3VA9287-0GA80 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | ✓ | | 3VA9487-0GA80 | | 1 | 1 unit | 1CB |
|  3VA9487-0GB10 | **Variable depth adapter**<br>8 × 8 mm | | | | | | 3VA9487-0GB10 | | 1 | 1 unit | 1CB |
|  8UD1900-2GA00 | **Mounting tolerance compensation**<br>8 × 8 mm | | | | | | 8UD1900-2GA00 | | 1 | 1 unit | 1CB |

*** You can order this quantity or a multiple thereof.**

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## Manual operators



### Side wall mounted rotary operators

**Side wall mounted rotary operators**
- Without mounting plate
  - Rotary operator with shaft 300 mm
  - Handle with masking plate 75 x 75 mm
  - Degree of protection IP65


3VA9267-0PK11

| Type | Color | For molded case circuit breakers/ DT frame size: 3VA1 100 A, 160 A | 3VA1 250 A | 3VA2 100 A 160 A, 250 A | 3VA2 400 A, 630 A | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|
| • Standard | Gray | ✓ | -- | -- | -- | 3VA9157-0PK11 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | 3VA9257-0PK11 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | 3VA9267-0PK11 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | 3VA9467-0PK11 | | 1 | 1 unit | 1CB |
| • Standard, with illumination kit | Gray | ✓ | -- | -- | -- | 3VA9157-0PK13 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | 3VA9257-0PK13 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | 3VA9267-0PK13 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | 3VA9467-0PK13 | | 1 | 1 unit | 1CB |
| • EMERGENCY OFF | Yellow-red | ✓ | -- | -- | -- | 3VA9157-0PK15 | | 1 | 1 unit | 1CB |
| | | | ✓ | -- | -- | 3VA9257-0PK15 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | 3VA9267-0PK15 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | 3VA9467-0PK15 | | 1 | 1 unit | 1CB |
| • EMERGENCY OFF, with illumination kit | Yellow-red | ✓ | -- | -- | -- | 3VA9157-0PK17 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | 3VA9257-0PK17 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | 3VA9267-0PK17 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | 3VA9467-0PK17 | | 1 | 1 unit | 1CB |

- With mounting plate
  - Rotary operator with short shaft
  - Handle with masking plate 75 x 75 mm
  - Degree of protection IP65


3VA9267-0PK51

| Type | Color | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| • Standard | Gray | ✓ | -- | -- | -- | 3VA9157-0PK51 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | 3VA9257-0PK51 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | 3VA9267-0PK51 | | 1 | 1 unit | 1CB |
| • Standard, with illumination kit | Gray | ✓ | -- | -- | -- | 3VA9157-0PK53 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | 3VA9257-0PK53 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | 3VA9267-0PK53 | | 1 | 1 unit | 1CB |
| • EMERGENCY OFF | Yellow-red | ✓ | -- | -- | -- | 3VA9157-0PK55 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | 3VA9257-0PK55 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | 3VA9267-0PK55 | | 1 | 1 unit | 1CB |
| • EMERGENCY OFF, with illumination kit | Yellow-red | ✓ | -- | -- | -- | 3VA9157-0PK57 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | 3VA9257-0PK57 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | 3VA9267-0PK57 | | 1 | 1 unit | 1CB |


3VA9987-0GL30

**Extended DIN rail for N/PE terminal**
- For mounting plate
- Up to 250 A

3VA9987-0GL30 | | 1 | 1 unit | 1CB

### Handles

**Handles**
- With masking plate


8UD1731-0AB11

| Type | Color | Tolerance compensation | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • Standard | Gray | None | ✓ | ✓ | ✓ | -- | 8UD1721-0AB11 | | 1 | 1 unit | 1CB |
| | | With | ✓ | ✓ | ✓ | -- | 8UD1721-0AB21 | | 1 | 1 unit | 1CB |
| | | None | -- | -- | -- | ✓ | 8UD1731-0AB11 | | 1 | 1 unit | 1CB |
| | | With | -- | -- | -- | ✓ | 8UD1731-0AB21 | | 1 | 1 unit | 1CB |
| • EMERGENCY OFF | Yellow-red | None | ✓ | ✓ | ✓ | -- | 8UD1721-0AB15 | | 1 | 1 unit | 1CB |
| | | With | ✓ | ✓ | ✓ | -- | 8UD1721-0AB25 | | 1 | 1 unit | 1CB |
| | | None | -- | -- | -- | ✓ | 8UD1731-0AB15 | | 1 | 1 unit | 1CB |
| | | With | -- | -- | -- | ✓ | 8UD1731-0AB25 | | 1 | 1 unit | 1CB |



* You can order this quantity or a multiple thereof.

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| | Version | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|
| **General accessories for manual operators** | | | | | | | | |
|  3VA9087-0SX10 | **Labeling plate for manual operators** | | | 3VA9087-0SX10 | | 1 | 10 unit | 1CB |
|  8UD1900-0KA20 | **Illumination kit for manual operators** 24 V DC voltage | For molded case circuit breakers | | | | | | |
| | | 3VA1, 100 ... 250 A | Front mounted rotary operators | 8UD1900-0KA10 | | 1 | 1 unit | 1CB |
| | | 3VA2, 100 ... 630 A | Front mounted rotary operators | 8UD1900-0KA20 | | 1 | 1 unit | 1CB |
| | | 3VA1, 3VA2, 100 … 630 A | Door mounted rotary operator and side wall mounted rotary operator | 8UD1900-0KA20 | | 1 | 1 unit | 1CB |
|  8UD1900-0MB01 | **Cylinder lock (type Kaba)** • For door mounted rotary operator and side wall mounted rotary operator (in the masking plate) • Standard masking plate | Key 1 | | 8UD1900-0MB01 | | 1 | 1 unit | 1CB |
| | | Key 2 | | 8UD1900-0NB01 | | 1 | 1 unit | 1CB |
| | | Key 3 | | 8UD1900-0PB01 | | 1 | 1 unit | 1CB |
| | | Key 4 | | 8UD1900-0QB01 | | 1 | 1 unit | 1CB |
|  8UD1900-0MB05 | **Cylinder lock (type Kaba)** • For door mounted rotary operator and side wall mounted rotary operator (in the masking plate) • EMERGENCY OFF masking plate | Key 1 | | 8UD1900-0MB05 | | 1 | 1 unit | 1CB |
| | | Key 2 | | 8UD1900-0NB05 | | 1 | 1 unit | 1CB |
| | | Key 3 | | 8UD1900-0PB05 | | 1 | 1 unit | 1CB |
| | | Key 4 | | 8UD1900-0QB05 | | 1 | 1 unit | 1CB |
|  3VA9488-0VF20 | **Rotary operator interlock**[1] • Contains 1 unit • For interlocking up to 3 operators (with 3 modules) • Interlocking via Bowden cable (not included in scope of delivery), see page 2/113 | For molded case circuit breakers | | | | | | |
| | | 3VA1, 160 A | | 3VA9158-0VF20 | | | | |
| | | 3VA1, 250 A | | 3VA9258-0VF20 | | | | |
| | | 3VA2, 250 A | | 3VA9268-0VF20 | | | | |
| | | 3VA2, 630 A | | 3VA9468-0VF20 | | | | |
|  3VA9980-0VL10 | **Cylinder lock (type Ronis)** • Includes a lock with 2 keys • For locking or interlocking • For installation in all rotary operators with shaft stub • For mounting in the adapter kit for the accessories compartment | Key 1 | | 3VA9980-0VL10 | | 1 | 1 unit | 1CB |
| | | Key 2 | | 3VA9980-0VL20 | | 1 | 1 unit | 1CB |
| | | Key 3 | | 3VA9980-0VL30 | | 1 | 1 unit | 1CB |
| | | Key 4 | | 3VA9980-0VL40 | | 1 | 1 unit | 1CB |
| | Note | | | | | | | |
| | The cylinder lock adapter for rotary operators is also needed for locking or interlocking circuit breakers via rotary operators. | | | | | | | |
|  3VA9980-0LF20 | **Cylinder lock adapter for rotary operators** To mount the cylinder lock in the rotary operator (also possible with door mounted rotary operator and side wall mounted rotary operator) | | | 3VA9980-0LF20 | | 1 | 1 unit | 1CB |

[1] Start of delivery scheduled for 1st quarter 2016

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## Motor operators



### Overview

***Lateral motorized operator MO310***

The lateral motor operator MO310 is optimized for use in in the area of electrical installation. It is mounted on the side of the 3VA1 molded-case circuit breaker and, thanks to the cover size of 45 mm, is suitable for side-by-side arrangement with miniature circuit breakers.

The motor operator MO310 can also be locked with several padlocks.

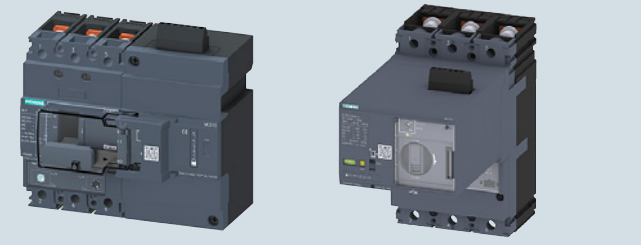
***MO320 front motor operator***

The MO320 motor operator is mounted on the front of the 3VA molded-case circuit breaker and opens and closes the molded case circuit breaker by means of control cable commands (e.g. from pushbuttons or a PLC). It can also be operated manually, however, and a handle is provided on the unit for this purpose.

The motor operator also features a clear switching position indicator which indicates ON and OFF and, via LED, whether the circuit breaker has tripped (TRIP). The motor operator therefore meets the standards for isolating characteristics defined by IEC / EN 60947-1. It is thus possible to identify the switching position of the molded case circuit breaker at any time.

Two different reset modes can be selected, i.e. in one mode, the operator resets the molded case circuit breaker automatically and in the other, it waits for confirmation by an OFF signal before it resets the breaker.

Furthermore, the motor operator can be locked in the OFF position by means of several padlocks.



### Benefits

- Remote operation of the molded case circuit breaker by means of control cable commands
- Clear switching position indication including TRIP provides a quick visual overview and prevents operating errors
- Locking capability prevents unauthorized operations
- Meets the standards for isolating characteristics defined by IEC / EN 60947-1

### Design

- The MO320 motor operator is simply snapped into position on a mounting frame which is installed instead of the accessories lid of the molded case circuit breaker.

### Technical specifications

| **MO310 motor operator** | **3VA1** |
|---|---|
| | 160 A |
| Degree of protection | IP20, with escutcheon IP30 |
| Rated control supply voltage (operating range of control supply voltage) | 42 V ... 60 V AC/<br>24 V ... 60 V DC (0.85 ... 1.26)<br>110 V ... 230 V AC/<br>110 V ... 250 V DC (0.85 ... 1.1) |
| Rating | 250 W, max. 500 W (60 ms) |
| Make time, typically | < 300 ms |
| Break time, typically | < 300 ms |

| **MO320 motor operator** | **3VA1** | | **3VA2** | |
|---|---|---|---|---|
| | 160 A | 250 A | 250 A | 630 A |
| Degree of protection | IP20, with escutcheon IP30 | | | |
| Rated control supply voltage (operating range of control supply voltage) | 24 V ... 60 V DC (0.85 ... 1.26)<br>110 V ... 230 V AC/<br>110 V ... 250 V DC (0.85 ... 1.1) | | | |
| Rating | 250 W, max. 500 W (60 ms) | | | |
| Make time, typically | < 800 ms | < 800 ms | < 1000 ms | < 1700 ms |
| Break time, typically | < 800 ms | < 800 ms | < 1000 ms | < 1400 ms |

### Selection and ordering data

| | Version | For molded case circuit breakers/ frame size 3VA1 160 A | 3VA1 250 A | 3VA2 100 A, 160 A, 250 A | 3VA2 400 A, 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Motorized operating mechanisms** | | | | | | | | | | | |
|  3VA9267-0HB10 | **Lateral motor operator (MO310)** | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| | • 24 ... 60 V DC<br>42 ... 60 V AC | ✓ | -- | -- | -- | | 3VA9117-0HB10 | | 1 | 1 unit | 1CB |
| | • 110 ... 230 V AC,<br>110 ... 250 V DC | ✓ | -- | -- | -- | | 3VA9117-0HB20 | | 1 | 1 unit | 1CB |
|  3VA9267-0HA10 | **Motor operators without stored energy feature (MO320)** | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| | • 24 ... 60 V DC | ✓ | -- | -- | -- | | 3VA9157-0HA10 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9257-0HA10 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9267-0HA10 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9467-0HA10 | | 1 | 1 unit | 1CB |
| | • 110 ... 230 V AC,<br>110 ... 250 V DC | ✓ | -- | -- | -- | | 3VA9157-0HA20 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9257-0HA20 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9267-0HA20 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9467-0HA20 | | 1 | 1 unit | 1CB |

* You can order this quantity or a multiple thereof.

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## Overview

The proper functioning and in particular the safety of electrical installations does not just depend on the quality and design of the components, but also on the method of installation.

The following aspects of electrical installations are of crucial importance for the implementation of a safe, properly functioning connection to the 3VA molded case circuit breakers:

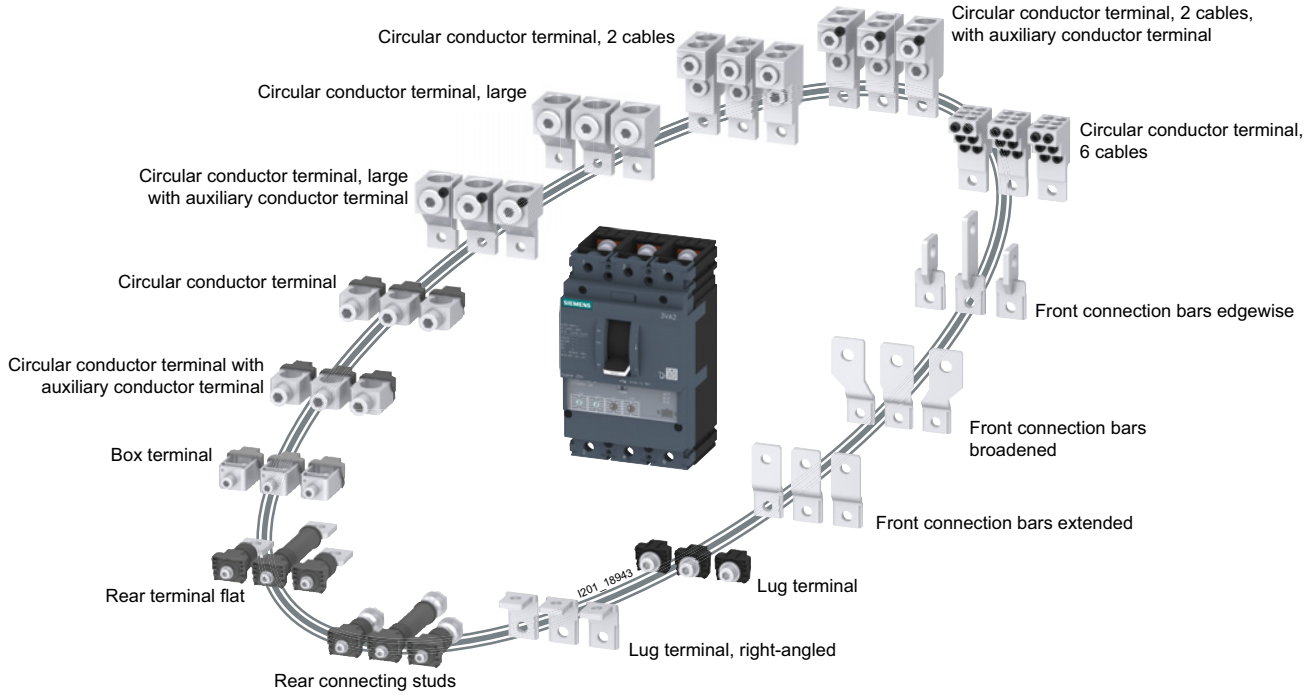
- Installation, e.g. connection to cables or busbars
- Dimensioning of the cables and busbars
- Installation medium, e.g. rigid or flexible

The following catalog pages provide all the information needed to ensure that a 3VA molded case circuit breaker is safely connected.

***Connection technology for the 3VA molded case circuit breaker***

The connection technology of the 3VA molded case circuit breakers is designed to support uncomplicated and convenient commissioning of the 3VA molded case circuit breakers and to meet all installation requirements.

To meet this objective, an extensive portfolio of connection components is available.



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## Connection technology

***Conductor cross-sections***



| Connection technology | Cable medium | Cables and busbars | Dimensions | 3VA1 | | 3VA2 | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 100 A/160 A | 250 A | 100 A/160 A/250 A | 400 A | 630 A |
| Box terminal  | Solid cable | Cu cable | $mm^2$ | 1.5 ... 16 | 6 ... 16 | 6 ... 16 | -- | -- |
| | Stranded cable | Cu cable | $mm^2$ | 1.5 ... 70 | 6 ... 120<br>50 ... 185 | 6 ... 120<br>25 ... 185 | 35 ... 300 | 35 ... 300 |
| | Finely stranded cable | Cu cable | $mm^2$ | 1.5 ... 50 | 10 ... 95<br>95 ... 150 | 10 ... 95<br>35 ... 150 | 25 ... 240 | 25 ... 240 |
| | Finely stranded with insulated end sleeve | Cu cable | $mm^2$ | 1.5 ... 50 | 6 ... 95<br>50 ... 150 | 6 ... 95<br>25 ... 150 | 25 ... 240 | 25 ... 240 |
| | Flexible copper busbar | Flexible busbar | mm x mm | 2x ..6x [13 x 0.5] ...<br>2x ..9x [9 x 0.8] | 2x ..6x [13 x 0.5] ...<br>2x ..6x [15.5 x 0.8] ...<br>2x ..6x [20 x 1] | 2x ..6x [13 x 0.5] ...<br>2x ..6x [15.5 x 0.8] ...<br>2x ..6x [20 x 1] | 2x ..10x [20 x 1] ...<br>2x ..10x [24 x 1] | 2x ..10x [20 x 1] ...<br>2x ..10x [24 x 1] |
| Circular conductor terminals  | Solid cable | Cu/Al cable | $mm^2$ | 2.5/4 ... 16 | -- | 1.5/4 ... 16 | -- | -- |
| | Stranded cable | Cu/Al cable | $mm^2$ | 1.5/4 ... 50 | 35 ... 185 | 1.5/4 ... 50<br>16 ... 185 | 50 ... 300 | -- |
| | Finely stranded cable | Cu cable | $mm^2$ | 1.5 ... 35 | 35 ... 150 | 1.5 ... 35<br>25 ... 150 | 50 ... 240 | -- |
| | Finely stranded with insulated end sleeve | Cu cable | $mm^2$ | 1.5 ... 35 | 35 ... 150 | 1.5 ... 35<br>16 ... 120 | 50 ... 240 | -- |
| Circular conductor terminal, large  | Solid cable | | | -- | -- | -- | -- | -- |
| | Stranded cable | Cu/Al cable | $mm^2$ | 25 ... 150 | 50 ... 240 | 50 ... 240 | -- | -- |
| | Finely stranded cable | Cu cable | $mm^2$ | 25 ... 120 | 50 ... 185 | 50 ... 185 | -- | -- |
| | Finely stranded with insulated end sleeve | Cu cable | $mm^2$ | 25 ... 95 | 50 ... 185 | 50 ... 185 | -- | -- |
| Circular conductor terminal for 2 cables  | Solid cable | | | -- | -- | -- | -- | -- |
| | Stranded cable | Cu/Al cable | $mm^2$ | -- | 25 ... 150 | 25 ... 150 | 70 ... 300 | 70 ... 300 |
| | Finely stranded cable | Cu cable | $mm^2$ | -- | 25 ... 150 | 25 ... 150 | 70 ... 240 | 70 ... 240 |
| | Finely stranded with insulated end sleeve | Cu cable | $mm^2$ | -- | 25 ... 70 | 25 ... 70 | 70 ... 185 | 70 ... 185 |
| Circular conductor terminal for 6 cables  | Solid cable | Cu/Al cable | $mm^2$ | 1.5/4 ... 16 | 1.5/4 ... 16 | 1.5/4 ... 16 | 1.5/4 ... 16 | 1.5/4 ... 16 |
| | Stranded cable | Cu/Al cable | $mm^2$ | 1.5/4 ... 35 | 1.5/4 ... 35 | 1.5/4 ... 35 | 1.5/4 ... 35 | 1.5/4 ... 35 |
| | Finely stranded cable | Cu cable | $mm^2$ | 1.5 ... 25 | 1.5 ... 25 | 1.5 ... 25 | 1.5 ... 25 | 1.5 ... 25 |
| | Finely stranded with insulated end sleeve | Cu cable | $mm^2$ | 1.5 ... 25 | 1.5 ... 25 | 1.5 ... 25 | 1.5 ... 25 | 1.5 ... 25 |
| Busbar connection | Direct (width x height) | Busbar | mm x mm | 17 x 6.5 | 25 x 8 | 25 x 8 | 35 x 10 | 35 x 10 |
| | Front connection bars extended | Busbar | mm x mm | 22 x 8 | 32 x 10 | 32 x 10 | 40 x 12.5 | 40 x 12.5 |
| | Front connection bars broadened | Busbar | mm x mm | 30 x 8 | 35 x 10 | 35 x 10 | 60 x 12.5 | 60 x 12.5 |

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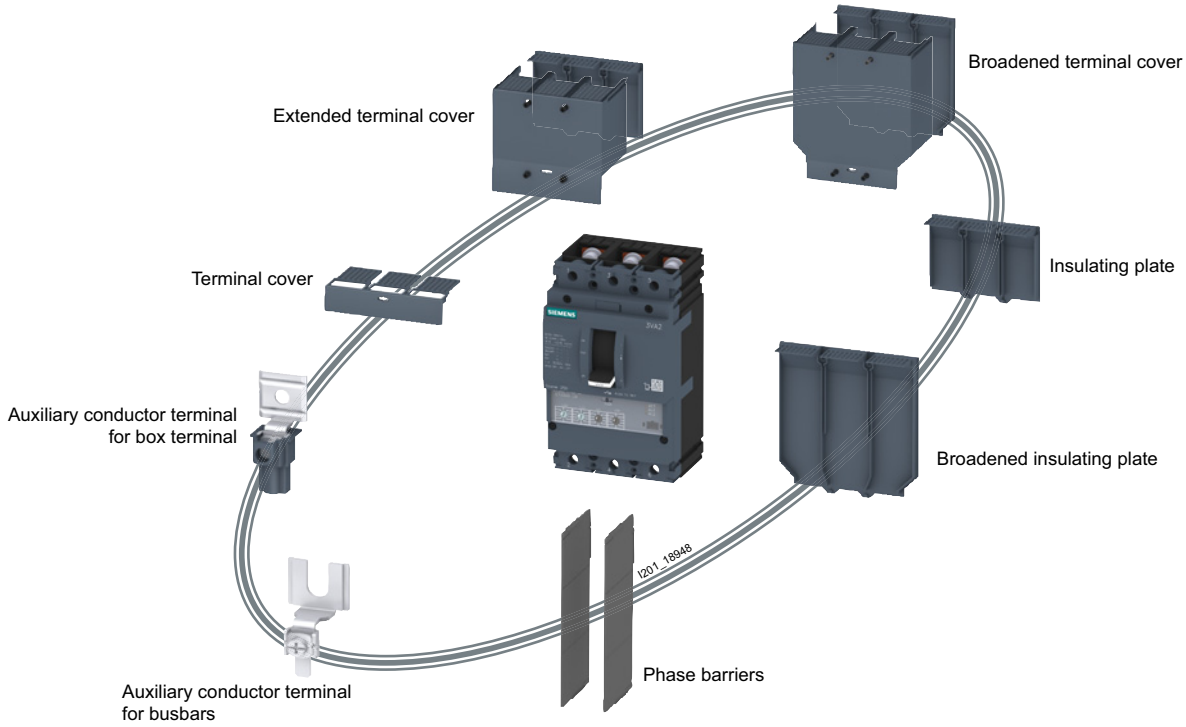




***Further connection accessories***

Insulation / auxiliary conductor connections

The connection accessories portfolio includes an extensive selection of insulating components (phase barriers, terminal covers, etc.). Auxiliary conductor connections for box terminals and busbars are also available.




Terminal covers

Terminal covers are insulating and sealable insulation accessories which protect against accidental contact with main current paths. When mounted on the circuit breaker, terminal covers at the front provide degree of protection IP4x and when correctly installed at the infeed and load ends of the breaker, degree of protection IP2x. All terminal covers have a recess on the inside face which can be drilled out if necessary so that safe isolation can be afforded by commercially available voltage detectors.

- Short terminal covers are normally installed for all types of front termination which do not exceed the geometric dimensions of the molded-case circuit breaker (the termination area) (e.g. box terminal, lug terminal, etc.).
- Extended terminal covers are required when bar extensions or external terminals (i.e. terminals which exceed the dimensions of the termination area of the molded case circuit breaker) are installed. The extended terminal cover consists of two parts, an insulating plate and the top half of the terminal cover. Both parts are attached by screws and thus afford the degrees of protection specified above.
- Broad terminal covers are required when broadened connection bars are installed. The extended terminal cover consists of two parts, a broadened insulating plate and the top half of the terminal cover. Both parts are attached by screws and thus afford the degrees of protection specified above.

Insulating plates

The purpose of insulating plates is to insulate the main terminals of the molded case circuit breaker from the mounting plate (cubicle).

- Insulating plate: in combination with bar extensions, for example
- Insulating plate broadened: in combination with broadened connection bars, for example

Auxiliary conductor terminals

All circular conductor terminals can be ordered with or without auxiliary conductor terminal (see page 2/10, Front terminals). The following accessories are available to allow the implementation of an auxiliary conductor terminal in combination with a box terminal or busbar connection:

- Auxiliary conductor terminal for box terminal: This terminal is fastened by screws in the box terminal with the cable.
- Auxiliary conductor terminal for busbars: This terminal is attached by screws directly to the busbar.

All auxiliary conductor terminals are rated for a maximum load of 6 A. Cables of up to 2.5 $mm^2$ can be connected.

**Benefits**

- High degree of flexibility
- Cables and busbars can be connected quickly and easily to the 3VA molded case circuit breaker
- Extensive selection of connection accessories

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## Connection parts – suitable for all installation types (fixed mounting, plug-in and draw-out versions)



### Selection and ordering data

| | Version | Minimum mm² for stranded cable | Maximum mm² for stranded cable | For molded case circuit breakers/frame size 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Box terminals suitable for all installation types (fixed mounting, plug-in and draw-out versions)** | | | | | | | | | | | | | |
|  3VA9163-0JA12 | **Box terminal** • Connection of Cu cable • Included in scope of supply: 3 single terminals | 1.5 mm² | 70 mm² | ✓ | -- | -- | -- | | 3VA9153-0JA11 | | 1 | 1 unit | 1CB |
| | | 6 mm² | 120 mm² | -- | ✓ | -- | -- | | 3VA9253-0JA11 | | 1 | 1 unit | 1CB |
| | | 50 mm² | 185 mm² | -- | ✓ | -- | -- | | 3VA9253-0JA12 | | 1 | 1 unit | 1CB |
| | | 6 mm² | 120 mm² | -- | -- | ✓ | -- | | 3VA9163-0JA12 | | 1 | 1 unit | 1CB |
| | | 25 mm² | 185 mm² | -- | -- | ✓ | -- | | 3VA9263-0JA12 | | 1 | 1 unit | 1CB |
| | | 35 mm² | 300 mm² | -- | -- | -- | ✓ | | 3VA9483-0JA13 | | 1 | 1 unit | 1CB |
|  3VA9164-0JA12 | **Box terminal** • Connection of Cu cable • Included in scope of supply: 4 single terminals | 1.5 mm² | 70 mm² | ✓ | -- | -- | -- | | 3VA9154-0JA11 | | 1 | 1 unit | 1CB |
| | | 6 mm² | 120 mm² | -- | ✓ | -- | -- | | 3VA9254-0JA11 | | 1 | 1 unit | 1CB |
| | | 50 mm² | 185 mm² | -- | ✓ | -- | -- | | 3VA9254-0JA12 | | 1 | 1 unit | 1CB |
| | | 6 mm² | 120 mm² | -- | -- | ✓ | -- | | 3VA9164-0JA12 | | 1 | 1 unit | 1CB |
| | | 25 mm² | 185 mm² | -- | -- | ✓ | -- | | 3VA9264-0JA12 | | 1 | 1 unit | 1CB |
| | | 35 mm² | 300 mm² | -- | -- | -- | ✓ | | 3VA9484-0JA13 | | 1 | 1 unit | 1CB |
| **Circular conductor terminals suitable for all installation types (fixed mounting, plug-in and draw-out versions)** | | | | | | | | | | | | | |
|  3VA9103-0JB11 | **Circular conductor terminals** • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals | 1.5 mm² | 50 mm² | ✓ | -- | -- | -- | | 3VA9113-0JB11 | | 1 | 1 unit | 1CB |
| | | 35 mm² | 185 mm² | -- | ✓ | -- | -- | | 3VA9253-0JB12 | | 1 | 1 unit | 1CB |
| | | 1.5 mm² | 50 mm² | -- | -- | ✓ | -- | | 3VA9103-0JB11 | | 1 | 1 unit | 1CB |
| | | 16 mm² | 185 mm² | -- | -- | ✓ | -- | | 3VA9263-0JB12 | | 1 | 1 unit | 1CB |
| | | 50 mm² | 300 mm² | -- | -- | -- | ✓ | | 3VA9383-0JB13 | | 1 | 1 unit | 1CB |
|  3VA9104-0JB11 | **Circular conductor terminals** • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals | 1.5 mm² | 50 mm² | ✓ | -- | -- | -- | | 3VA9114-0JB11 | | 1 | 1 unit | 1CB |
| | | 35 mm² | 185 mm² | -- | ✓ | -- | -- | | 3VA9254-0JB12 | | 1 | 1 unit | 1CB |
| | | 1.5 mm² | 50 mm² | -- | -- | ✓ | -- | | 3VA9104-0JB11 | | 1 | 1 unit | 1CB |
| | | 16 mm² | 185 mm² | -- | -- | ✓ | -- | | 3VA9264-0JB12 | | 1 | 1 unit | 1CB |
| | | 50 mm² | 300 mm² | -- | -- | -- | ✓ | | 3VA9384-0JB13 | | 1 | 1 unit | 1CB |
|  3VA9103-0JG11 | **Circular conductor terminal with auxiliary conductor terminal** • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals | 16 mm² | 50 mm² | ✓ | -- | -- | -- | | 3VA9113-0JG11 | | 1 | 1 unit | 1CB |
| | | 35 mm² | 185 mm² | -- | ✓ | -- | -- | | 3VA9253-0JG12 | | 1 | 1 unit | 1CB |
| | | 1.5 mm² | 50 mm² | -- | -- | ✓ | -- | | 3VA9103-0JG11 | | 1 | 1 unit | 1CB |
| | | 16 mm² | 185 mm² | -- | -- | ✓ | -- | | 3VA9263-0JG12 | | 1 | 1 unit | 1CB |
| | | 50 mm² | 300 mm² | -- | -- | -- | ✓ | | 3VA9383-0JG13 | | 1 | 1 unit | 1CB |
|  3VA9104-0JG11 | **Circular conductor terminal with auxiliary conductor terminal** • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals | 16 mm² | 50 mm² | ✓ | -- | -- | -- | | 3VA9114-0JG11 | | 1 | 1 unit | 1CB |
| | | 35 mm² | 185 mm² | -- | ✓ | -- | -- | | 3VA9254-0JG12 | | 1 | 1 unit | 1CB |
| | | 1.5 mm² | 50 mm² | -- | -- | ✓ | -- | | 3VA9104-0JG11 | | 1 | 1 unit | 1CB |
| | | 16 mm² | 185 mm² | -- | -- | ✓ | -- | | 3VA9264-0JG12 | | 1 | 1 unit | 1CB |
| | | 50 mm² | 300 mm² | -- | -- | -- | ✓ | | 3VA9384-0JG13 | | 1 | 1 unit | 1CB |

| | Version | Max. terminal width | Max. busbar thickness | For molded case circuit breakers/frame size 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lug terminals suitable for all installation types (fixed mounting, plug-in and draw-out versions)** | | | | | | | | | | | | | |
|  3VA9203-0QA00 | **Lug terminal** Included in scope of supply: • 3 single terminals | 17 mm | 6.5 mm | ✓ | -- | -- | -- | | 3VA9113-0QA00 | | 1 | 1 unit | 1CB |
| | | 25 mm | 8 mm | -- | ✓ | -- | -- | | 3VA9213-0QA00 | | 1 | 1 unit | 1CB |
| | | 25 mm | 8 mm | -- | -- | ✓ | -- | | 3VA9203-0QA00 | | 1 | 1 unit | 1CB |
| | | 35 mm | 10 mm | -- | -- | -- | ✓ | | 3VA9403-0QA00 | | 1 | 1 unit | 1CB |
|  3VA9204-0QA00 | **Lug terminal** Included in scope of supply: • 4 single terminals | 17 mm | 6.5 mm | ✓ | -- | -- | -- | | 3VA9114-0QA00 | | 1 | 1 unit | 1CB |
| | | 25 mm | 8 mm | -- | ✓ | -- | -- | | 3VA9214-0QA00 | | 1 | 1 unit | 1CB |
| | | 25 mm | 8 mm | -- | -- | ✓ | -- | | 3VA9204-0QA00 | | 1 | 1 unit | 1CB |
| | | 35 mm | 10 mm | -- | -- | -- | ✓ | | 3VA9404-0QA00 | | 1 | 1 unit | 1CB |

* You can order this quantity or a multiple thereof.

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## Connection parts – suitable for all installation types (fixed mounting, plug-in and draw-out versions)



| | Version | Max. terminal width | Max. busbar thickness | For molded case circuit breakers/frame size 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Bar extensions suitable for all installation types (fixed mounting, plug-in and draw-out versions)** | | | | | | | | | | | | | |
|  3VA9263-0QB00 | **Front connection bars extended** Included in scope of supply: • 3 single terminals • 2 phase barriers | 22 mm | 8 mm | ✓ | -- | -- | -- | | 3VA9153-0QB00 | | 1 | 1 unit | 1CB |
| | | 32 mm | 10 mm | -- | ✓ | -- | -- | | 3VA9253-0QB00 | | 1 | 1 unit | 1CB |
| | | 32 mm | 10 mm | -- | -- | ✓ | -- | | 3VA9263-0QB00 | | 1 | 1 unit | 1CB |
| | | 40 mm | 12.5 mm | -- | -- | -- | ✓ | | 3VA9483-0QB00 | | 1 | 1 unit | 1CB |
|  3VA9264-0QB00 | **Front connection bars extended** Included in scope of supply: • 4 single terminals • 3 phase barriers | 22 mm | 8 mm | ✓ | -- | -- | -- | | 3VA9154-0QB00 | | 1 | 1 unit | 1CB |
| | | 32 mm | 10 mm | -- | ✓ | -- | -- | | 3VA9254-0QB00 | | 1 | 1 unit | 1CB |
| | | 32 mm | 10 mm | -- | -- | ✓ | -- | | 3VA9264-0QB00 | | 1 | 1 unit | 1CB |
| | | 40 mm | 12.5 mm | -- | -- | -- | ✓ | | 3VA9484-0QB00 | | 1 | 1 unit | 1CB |
|  3VA9263-0QC00 | **Front connection bars broadened** Included in scope of supply: • 3 single terminals • 2 phase barriers Distance between pole centers: 100/160 A = 35 mm 250 A = 45 mm 400/630 A = 70 mm | 30 mm | 8 mm | ✓ | -- | -- | -- | | 3VA9153-0QC00 | | 1 | 1 unit | 1CB |
| | | 35 mm | 10 mm | -- | ✓ | -- | -- | | 3VA9253-0QC00 | | 1 | 1 unit | 1CB |
| | | 35 mm | 10 mm | -- | -- | ✓ | -- | | 3VA9263-0QC00 | | 1 | 1 unit | 1CB |
| | | 60 mm | 12.5 mm | -- | -- | -- | ✓ | | 3VA9483-0QC00 | | 1 | 1 unit | 1CB |
|  3VA9264-0QC00 | **Front connection bars broadened** Included in scope of supply: • 4 single terminals • 3 phase barriers Distance between pole centers: 100/160 A = 35 mm 250 A = 45 mm 400/630 A = 70 mm | 30 mm | 8 mm | ✓ | -- | -- | -- | | 3VA9154-0QC00 | | 1 | 1 unit | 1CB |
| | | 35 mm | 10 mm | -- | ✓ | -- | -- | | 3VA9254-0QC00 | | 1 | 1 unit | 1CB |
| | | 35 mm | 10 mm | -- | -- | ✓ | -- | | 3VA9264-0QC00 | | 1 | 1 unit | 1CB |
| | | 60 mm | 12.5 mm | -- | -- | -- | ✓ | | 3VA9484-0QC00 | | 1 | 1 unit | 1CB |
|  3VA9263-0QD00 | **Front connection bars edgewise** Included in scope of supply: • 3 single terminals • 2 phase barriers | 20 mm | 6 mm | ✓ | -- | -- | -- | | 3VA9153-0QD00 | | 1 | 1 unit | 1CB |
| | | 25 mm | 7 mm | -- | ✓ | -- | -- | | 3VA9253-0QD00 | | 1 | 1 unit | 1CB |
| | | 25 mm | 7 mm | -- | -- | ✓ | -- | | 3VA9263-0QD00 | | 1 | 1 unit | 1CB |
| | | 40 mm | 8 mm | -- | -- | -- | ✓ | | 3VA9483-0QD00 | | 1 | 1 unit | 1CB |
|  3VA9264-0QD00 | **Front connection bars edgewise** Included in scope of supply: • 4 single terminals • 3 phase barriers | 20 mm | 6 mm | ✓ | -- | -- | -- | | 3VA9154-0QD00 | | 1 | 1 unit | 1CB |
| | | 25 mm | 7 mm | -- | ✓ | -- | -- | | 3VA9254-0QD00 | | 1 | 1 unit | 1CB |
| | | 25 mm | 7 mm | -- | -- | ✓ | -- | | 3VA9264-0QD00 | | 1 | 1 unit | 1CB |
| | | 40 mm | 8 mm | -- | -- | -- | ✓ | | 3VA9484-0QD00 | | 1 | 1 unit | 1CB |

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## Connection parts – suitable for all installation types (fixed mounting, plug-in and draw-out versions)

| | Version | Max. terminal width | Max. busbar thickness | For molded case circuit breakers/frame size 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  3VA9223-0QG00 | **Lug terminal, right-angled**[1] Included in scope of supply: • 3 single terminals • 2 phase barriers | 22 mm | 8 mm | ✓ | -- | -- | -- | | 3VA9113-0QG00 | | 1 | 1 unit | 1CB |
| | | 32 mm | 10 mm | -- | ✓ | -- | -- | | 3VA9213-0QG00 | | 1 | 1 unit | 1CB |
| | | 32 mm | 10 mm | -- | -- | ✓ | -- | | 3VA9223-0QG00 | | 1 | 1 unit | 1CB |
| | | 40 mm | 12.5 mm | -- | -- | -- | ✓ | | 3VA9403-0QG00 | | 1 | 1 unit | 1CB |
|  3VA9224-0QG00 | **Lug terminal, right-angled**[1] Included in scope of supply: • 4 single terminals • 3 phase barriers | 22 mm | 8 mm | ✓ | -- | -- | -- | | 3VA9114-0QG00 | | 1 | 1 unit | 1CB |
| | | 32 mm | 10 mm | -- | ✓ | -- | -- | | 3VA9214-0QG00 | | 1 | 1 unit | 1CB |
| | | 32 mm | 10 mm | -- | -- | ✓ | -- | | 3VA9224-0QG00 | | 1 | 1 unit | 1CB |
| | | 40 mm | 12.5 mm | -- | -- | -- | ✓ | | 3VA9404-0QG00 | | 1 | 1 unit | 1CB |

[1] Can only be connected to breaker side N, 1, 3, 5

| | Version | For molded case circuit breakers/frame size 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Rear flat terminals suitable for all installation types (fixed mounting, plug-in and draw-out versions)** | | | | | | | | | | | |
|  3VA9203-0QE00 | **Rear terminal flat** Included in scope of supply: • 2 short terminals flat • 1 long terminal flat | ✓ | -- | -- | -- | | 3VA9113-0QE00 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9213-0QE00 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9203-0QE00 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9403-0QE00 | | 1 | 1 unit | 1CB |
|  3VA9204-0QE00 | **Rear terminal flat** Included in scope of supply: • 2 short terminals flat • 2 long terminals flat | ✓ | -- | -- | -- | | 3VA9114-0QE00 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9214-0QE00 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9204-0QE00 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9404-0QE00 | | 1 | 1 unit | 1CB |
|  3VA9201-0QE10 | **Rear terminal flat** Included in scope of supply: • 1 short terminal flat | ✓ | -- | -- | -- | | 3VA9111-0QE10 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9211-0QE10 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9201-0QE10 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9401-0QE10 | | 1 | 1 unit | 1CB |
|  3VA9201-0QE20 | **Rear terminal flat** Included in scope of supply: • 1 long terminal flat | ✓ | -- | -- | -- | | 3VA9111-0QE20 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9211-0QE20 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9201-0QE20 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9401-0QE20 | | 1 | 1 unit | 1CB |



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## Connection parts – suitable for all installation types (fixed mounting, plug-in and draw-out versions)

| | Version | For molded case circuit breakers/frame size | | | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | | | | | | |
| **Rear connecting stud terminals suitable for all installation types (fixed mounting, plug-in and draw-out versions)** | | | | | | | | | | | |
|  3VA9203-0QF00 | **Rear connecting stud** Included in scope of supply: • 1 long connecting stud • 2 short connecting studs | ✓ | -- | -- | -- | | 3VA9113-0QF00 | | 1 | 1 unit | 1CB |
| | | | ✓ | -- | -- | | 3VA9213-0QF00 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9203-0QF00 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9403-0QF00 | | 1 | 1 unit | 1CB |
|  3VA9204-0QF00 | **Rear connecting stud** Included in scope of supply: • 2 long connecting studs • 2 short connecting studs | ✓ | -- | -- | -- | | 3VA9114-0QF00 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9214-0QF00 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9204-0QF00 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9404-0QF00 | | 1 | 1 unit | 1CB |
|  3VA9201-0QF10 | **Rear connecting stud** Included in scope of supply: • 1 short connecting stud | ✓ | -- | -- | -- | | 3VA9111-0QF10 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9211-0QF10 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9201-0QF10 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9401-0QF10 | | 1 | 1 unit | 1CB |
|  3VA9111-0QF20 | **Rear connecting stud** Included in scope of supply: • 1 long connecting stud | ✓ | -- | -- | -- | | 3VA9111-0QF20 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9211-0QF20 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9201-0QF20 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9401-0QF20 | | 1 | 1 unit | 1CB |
| **Phase barriers suitable for all installation types (fixed mounting, plug-in and draw-out versions)** | | | | | | | | | | | |
|  3VA9262-0WA00 | **Phase barriers** Included in scope of supply: • 2 phase barriers | ✓ | -- | -- | -- | | 3VA9152-0WA00 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9252-0WA00 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9262-0WA00 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9482-0WA00 | | 1 | 1 unit | 1CB |

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# Molded Case Circuit Breakers

## 3VA Molded Case Circuit Breakers – Accessories, IEC NEW

### Connection parts – specially for fixed mounting

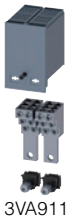
| | Version | Minimum mm² for stranded cable | Maximum mm² for stranded cable | For molded case circuit breakers/frame size 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Front connection bars specially for fixed mounting** | | | | | | | | | | | | | |
|  3VA9151-0QB00 | **Front connection bars extended**<br>Included in scope of supply:<br>• 1 busbar connection piece | 32 mm | 10 mm | ✓ | -- | -- | -- | | **3VA9151-0QB00** | | 1 | 1 unit | 1CB |
|  3VA9152-0QC00 | **Front connection bars broadened**<br>Included in scope of supply:<br>• 2 individual busbar connection pieces<br>• 1 phase barriers<br>Note<br>Distance between pole centers 44.6 mm | 35 mm | 10 mm | ✓ | -- | -- | -- | | **3VA9152-0QC00** | | 1 | 1 unit | 1CB |
| **Circular conductor terminals specially for fixed mounting** | | | | | | | | | | | | | |
|  3VA9112-0JJ12 | **Circular conductor terminal, large**<br>• Connection of Cu/Al cable<br>• Included in scope of supply:<br>2 single terminals and<br>1 extended terminal cover | 25 mm² | 150 mm² | ✓ | -- | -- | -- | | **3VA9112-0JJ12** | | 1 | 1 unit | 1CB |
|  3VA9113-0JJ12 | **Circular conductor terminal, large**<br>• Connection of Cu/Al cable<br>• Included in scope of supply:<br>3 single terminals and<br>1 extended terminal cover | 25 mm² | 150 mm² | ✓ | -- | -- | -- | | **3VA9113-0JJ12** | | 1 | 1 unit | 1CB |
| | | 50 mm² | 240 mm² | -- | ✓ | -- | -- | | **3VA9213-0JJ13** | | 1 | 1 unit | 1CB |
| | | 50 mm² | 240 mm² | -- | -- | ✓ | -- | | **3VA9223-0JJ13** | | 1 | 1 unit | 1CB |
|  3VA9114-0JJ12 | **Circular conductor terminal, large**<br>• Connection of Cu/Al cable<br>• Included in scope of supply:<br>4 single terminals and<br>1 extended terminal cover | 25 mm² | 150 mm² | ✓ | -- | -- | -- | | **3VA9114-0JJ12** | | 1 | 1 unit | 1CB |
| | | 50 mm² | 240 mm² | -- | ✓ | -- | -- | | **3VA9214-0JJ13** | | 1 | 1 unit | 1CB |
| | | 50 mm² | 240 mm² | -- | -- | ✓ | -- | | **3VA9224-0JJ13** | | 1 | 1 unit | 1CB |
|  3VA9112-0JC12 | **Circular conductor terminal, large, with auxiliary conductor terminal**<br>• Connection of Cu/Al cable<br>• Included in scope of supply:<br>2 single terminals and<br>1 extended terminal cover | 25 mm² | 150 mm² | ✓ | -- | -- | -- | | **3VA9112-0JC12** | | 1 | 1 unit | 1CB |



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| | Version | Minimum mm² for stranded cable | Maximum mm² for stranded cable | For molded case circuit breakers/frame size | | | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | | | | | | |
|  3VA9223-0JC13 | **Circular conductor terminal, large, with auxiliary conductor terminal**<br>• Connection of Cu/Al cable<br>• Included in scope of supply:<br>3 single terminals and<br>1 extended terminal cover | 25 mm² | 150 mm² | ✓ | -- | -- | -- | | 3VA9113-0JC12 | | 1 | 1 unit | 1CB |
| | | 50 mm² | 240 mm² | -- | ✓ | -- | -- | | 3VA9213-0JC13 | | 1 | 1 unit | 1CB |
| | | 50 mm² | 240 mm² | -- | -- | ✓ | -- | | 3VA9223-0JC13 | | 1 | 1 unit | 1CB |
|  3VA9114-0JC12 | **Circular conductor terminal, large, with auxiliary conductor terminal**<br>• Connection of Cu/Al cable<br>• Included in scope of supply:<br>4 single terminals and<br>1 extended terminal cover | 25 mm² | 150 mm² | ✓ | -- | -- | -- | | 3VA9114-0JC12 | | 1 | 1 unit | 1CB |
| | | 50 mm² | 240 mm² | -- | ✓ | -- | -- | | 3VA9214-0JC13 | | 1 | 1 unit | 1CB |
| | | 50 mm² | 240 mm² | -- | -- | ✓ | -- | | 3VA9224-0JC13 | | 1 | 1 unit | 1CB |
|  3VA9223-0JJ22 | **Circular conductor terminal, 2 cables**<br>• Connection of Cu/Al cable<br>• Included in scope of supply:<br>3 single terminals and<br>1 extended terminal cover | 2 x 25 mm² | 2 x 150 mm² | -- | ✓ | -- | -- | | 3VA9213-0JJ22 | | 1 | 1 unit | 1CB |
| | | 2 x 25 mm² | 2 x 150 mm² | -- | -- | ✓ | -- | | 3VA9223-0JJ22 | | 1 | 1 unit | 1CB |
| | | 2 x 70 mm² | 2 x 300 mm² | -- | -- | -- | ✓ | | 3VA9403-0JJ23 | | 1 | 1 unit | 1CB |
|  3VA9224-0JJ22 | **Circular conductor terminal, 2 cables**<br>• Connection of Cu/Al cable<br>• Included in scope of supply:<br>4 single terminals and<br>1 extended terminal cover | 2 x 25 mm² | 2 x 150 mm² | -- | ✓ | -- | -- | | 3VA9214-0JJ22 | | 1 | 1 unit | 1CB |
| | | 2 x 25 mm² | 2 x 150 mm² | -- | -- | ✓ | -- | | 3VA9224-0JJ22 | | 1 | 1 unit | 1CB |
| | | 2 x 70 mm² | 2 x 300 mm² | -- | -- | -- | ✓ | | 3VA9404-0JJ23 | | 1 | 1 unit | 1CB |
|  3VA9223-0JC22 | **Circular conductor terminal, 2 cables, with auxiliary conductor terminal**<br>• Connection of Cu/Al cable<br>• Included in scope of supply:<br>3 single terminals and<br>1 extended terminal cover | 2 x 25 mm² | 2 x 150 mm² | -- | ✓ | -- | -- | | 3VA9213-0JC22 | | 1 | 1 unit | 1CB |
| | | 2 x 25 mm² | 2 x 150 mm² | -- | -- | ✓ | -- | | 3VA9223-0JC22 | | 1 | 1 unit | 1CB |
| | | 2 x 70 mm² | 2 x 300 mm² | -- | -- | -- | ✓ | | 3VA9403-0JC23 | | 1 | 1 unit | 1CB |
|  3VA9224-0JC22 | **Circular conductor terminal, 2 cables, with auxiliary conductor terminal**<br>• Connection of Cu/Al cable<br>• Included in scope of supply:<br>4 single terminals and<br>1 extended terminal cover | 2 x 25 mm² | 2 x 150 mm² | -- | ✓ | -- | -- | | 3VA9214-0JC22 | | 1 | 1 unit | 1CB |
| | | 2 x 25 mm² | 2 x 150 mm² | -- | -- | ✓ | -- | | 3VA9224-0JC22 | | 1 | 1 unit | 1CB |
| | | 2 x 70 mm² | 2 x 300 mm² | -- | -- | -- | ✓ | | 3VA9404-0JC23 | | 1 | 1 unit | 1CB |
|  3VA9112-0JF60 | **Circular conductor terminal, 6 cables**<br>• Connection of Cu/Al cable<br>• Included in scope of supply:<br>2 single terminals and<br>1 extended terminal cover | 6 x 1.5 mm² | 6 x 35 mm² | ✓ | -- | -- | -- | | 3VA9112-0JF60 | | 1 | 1 unit | 1CB |

*** You can order this quantity or a multiple thereof.**

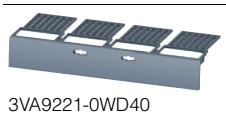
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## Connection parts – specially for fixed mounting

| | Version | Minimum mm² for stranded cable | Maximum mm² for stranded cable | For molded case circuit breakers/frame size 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  3VA9223-0JF60 | **Circular conductor terminal, 6 cables** • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals and 1 extended terminal cover | 6 x 1.5 mm² | 6 x 35 mm² | ✓ | -- | -- | -- | | **3VA9113-0JF60** | | 1 | 1 unit | 1CB |
| | | | | -- | ✓ | -- | -- | | **3VA9213-0JF60** | | 1 | 1 unit | 1CB |
| | | | | -- | -- | ✓ | -- | | **3VA9223-0JF60** | | 1 | 1 unit | 1CB |
| | | | | -- | -- | -- | ✓ | | **3VA9303-0JF60** | | 1 | 1 unit | 1CB |
|  3VA9224-0JF60 | **Circular conductor terminal, 6 cables** • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals and 1 extended terminal cover | 6 x 1.5 mm² | 6 x 35 mm² | ✓ | -- | -- | -- | | **3VA9114-0JF60** | | 1 | 1 unit | 1CB |
| | | | | -- | ✓ | -- | -- | | **3VA9214-0JF60** | | 1 | 1 unit | 1CB |
| | | | | -- | -- | ✓ | -- | | **3VA9224-0JF60** | | 1 | 1 unit | 1CB |
| | | | | -- | -- | -- | ✓ | | **3VA9304-0JF60** | | 1 | 1 unit | 1CB |

| | Version | For molded case circuit breakers/frame size 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Terminal covers specially for fixed mounting** | | | | | | | | | | | |
|  3VA9111-0WD10 | **Terminal cover for 1-pole breakers** | ✓ | -- | -- | -- | | **3VA9111-0WD10** | | 1 | 1 unit | 1CB |
|  3VA9111-0WD20 | **Terminal cover for 2-pole breakers** | ✓ | -- | -- | -- | | **3VA9111-0WD20** | | 1 | 1 unit | 1CB |
|  3VA9221-0WD30 | **Terminal cover for 3-pole breakers** | ✓ | -- | -- | -- | | **3VA9111-0WD30** | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | **3VA9211-0WD30** | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | **3VA9221-0WD30** | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | **3VA9481-0WD30** | | 1 | 1 unit | 1CB |
|  3VA9221-0WD40 | **Terminal cover for 4-pole breakers** | ✓ | -- | -- | -- | | **3VA9111-0WD40** | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | **3VA9211-0WD40** | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | **3VA9221-0WD40** | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | **3VA9481-0WD40** | | 1 | 1 unit | 1CB |
|  3VA9111-0WF20 | **Extended terminal cover, 2-pole** | ✓ | -- | -- | -- | | **3VA9111-0WF20** | | 1 | 1 unit | 1CB |



* You can order this quantity or a multiple thereof.

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| | Version | For molded case circuit breakers/frame size | | | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | | | | | | |
|  3VA9221-0WF30 | **Extended terminal cover for 3-pole breakers** | ✓ | -- | -- | -- | | 3VA9111-0WF30 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9211-0WF30 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9221-0WF30 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9481-0WF30 | | 1 | 1 unit | 1CB |
|  3VA9221-0WF40 | **Extended terminal cover for 4-pole breakers** | ✓ | -- | -- | -- | | 3VA9111-0WF40 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9211-0WF40 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9221-0WF40 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9481-0WF40 | | 1 | 1 unit | 1CB |
|  3VA9221-0WG30 | **Broadened terminal cover for 3-pole breakers** | ✓ | -- | -- | -- | | 3VA9111-0WG30 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9211-0WG30 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9221-0WG30 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9401-0WG30 | | 1 | 1 unit | 1CB |
|  3VA9221-0WG40 | **Broadened terminal cover for 4-pole breakers** | ✓ | -- | -- | -- | | 3VA9111-0WG40 | | 1 | 1 unit | 1CB |
| | | | ✓ | -- | -- | | 3VA9211-0WG40 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9221-0WG40 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9401-0WG40 | | 1 | 1 unit | 1CB |
| **Insulating plates specially for fixed mounting** | | | | | | | | | | | |
|  3VA9111-0WJ20 | **Insulating plate, 2-pole** | ✓ | -- | -- | -- | | 3VA9111-0WJ20 | | 1 | 1 unit | 1CB |
|  3VA9221-0WJ30 | **Insulating plate, 3-pole** | ✓ | -- | -- | -- | | 3VA9111-0WJ30 | | 1 | 1 unit | 1CB |
| | | | ✓ | | | | 3VA9211-0WJ30 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9221-0WJ30 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9481-0WJ30 | | 1 | 1 unit | 1CB |
|  3VA9221-0WJ40 | **Insulating plate, 4-pole** | ✓ | -- | -- | -- | | 3VA9111-0WJ40 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9211-0WJ40 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9221-0WJ40 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9481-0WJ40 | | 1 | 1 unit | 1CB |

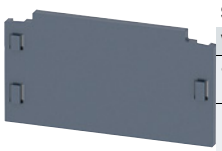
*** You can order this quantity or a multiple thereof.**

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## Connection parts – specially for fixed mounting

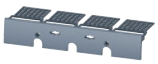
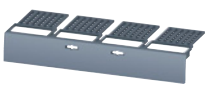
| | Version | For molded case circuit breakers/frame size | | | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | | | | | | |
|  3VA9221-0WK30 | **Insulating plate broadened, 3-pole** | ✓ | -- | -- | -- | | **3VA9111-0WK30** | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | **3VA9211-0WK30** | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | **3VA9221-0WK30** | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | **3VA9481-0WK30** | | 1 | 1 unit | 1CB |
|  3VA9221-0WK40 | **Insulating plate broadened, 4-pole** | ✓ | -- | -- | -- | | **3VA9111-0WK40** | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | **3VA9211-0WK40** | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | **3VA9221-0WK40** | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | **3VA9481-0WK40** | | 1 | 1 unit | 1CB |
| **Auxiliary conductor terminals specially for fixed mounting** | | | | | | | | | | | |
|  3VA9200-0WB00 | **Auxiliary conductor terminal for box terminal** | ✓ | -- | -- | -- | | **3VA9110-0WB00** | | 1 | 10 unit | 1CB |
| | | -- | ✓ | ✓ | -- | | **3VA9200-0WB00** | | 1 | 10 unit | 1CB |
| | | -- | -- | -- | ✓ | | **3VA9480-0WB00** | | 1 | 10 unit | 1CB |
|  3VA9200-0WC00 | **Auxiliary conductor terminal for busbar** | ✓ | -- | -- | -- | | **3VA9110-0WC00** | | 1 | 10 unit | 1CB |
| | | -- | ✓ | ✓ | -- | | **3VA9200-0WC00** | | 1 | 10 unit | 1CB |
| | | -- | -- | -- | ✓ | | **3VA9480-0WC00** | | 1 | 10 unit | 1CB |
| **DC Insulating plate specially for fixed mounting** | | | | | | | | | | | |
|  3VA9113-0SG10 | **DC insulating plate for 3VA1** | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| | • For fixed-mounted molded case circuit breakers | | | | | | | | | | |
| | - 3-pole | ✓ | -- | -- | -- | | **3VA9113-0SG10** | | 1 | 10 unit | 1CB |
| | - 4-pole | ✓ | -- | -- | -- | | **3VA9114-0SG10** | | 1 | 10 unit | 1CB |
| **Side plate specially for fixed mounting** | | | | | | | | | | | |
|  3VA9112-0SG20 | **Side plate for 3VA1** | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| | • For fixed-mounted molded case circuit breakers | | | | | | | | | | |
| | - 2-pole | ✓ | -- | -- | -- | | **3VA9112-0SG20** | | 1 | 5 unit | 1CB |



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| | Version | For molded case circuit breakers/frame size | | | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | | | | | | |
| **Terminal covers specially for plug-in and draw-out units** | | | | | | | | | | | |
| | **Terminal cover for plug-in/draw-out unit (spare part)**<br>• To provide circuit breaker touch protection<br>• For mounting on the molded case circuit breaker | | | | | | | | | | |
| | Versions | | | | | | | | | | |
|  | • 3-pole | ✓ | -- | -- | -- | | 3VA9113-0KB01 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9213-0KB01 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9123-0KB01 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9353-0KB01 | | 1 | 1 unit | 1CB |
| <br>3VA9123-0KB01 | | | | | | | | | | | |
|  | • 4-pole | ✓ | | -- | -- | | 3VA9114-0KB01 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9214-0KB01 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9124-0KB01 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9354-0KB01 | | 1 | 1 unit | 1CB |
| <br>3VA9124-0KB01 | | | | | | | | | | | |
| | **Terminal cover for plug-in or draw-out socket**<br>• For touch protection in the termination area of the plug-in or draw-out socket<br>• For mounting on the plug-in or draw-out socket | | | | | | | | | | |
| | Versions | | | | | | | | | | |
|  | • 3-pole | ✓ | -- | -- | -- | | 3VA9153-0KB03 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9253-0KB03 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9163-0KB03 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9353-0KB03 | | 1 | 1 unit | 1CB |
| <br>3VA9153-0KB03 | • 4-pole | ✓ | -- | -- | -- | | 3VA9154-0KB03 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9254-0KB03 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9164-0KB03 | | 1 | 1 unit | 1CB |
| 3VA9154-0KB03 | | -- | -- | -- | ✓ | | 3VA9354-0KB03 | | 1 | 1 unit | 1CB |
| | **Terminal cover, extended for plug-in or draw-out socket**<br>• For touch protection in the termination area of the plug-in or draw-out socket<br>• For mounting on the plug-in or draw-out socket | | | | | | | | | | |
| | Versions | | | | | | | | | | |
|  | • 3-pole | ✓ | -- | -- | -- | | 3VA9153-0KB04 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9253-0KB04 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9163-0KB04 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9353-0KB04 | | 1 | 1 unit | 1CB |
| 3VA9153-0KB04 | | | | | | | | | | | |
|  | • 4-pole | ✓ | -- | -- | -- | | 3VA9154-0KB04 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9254-0KB04 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9164-0KB04 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9354-0KB04 | | 1 | 1 unit | 1CB |
| 3VA9154-0KB04 | | | | | | | | | | | |

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## Connection methods – specially for plug-in and draw-out units

| | Version | For molded case circuit breakers/frame size | | | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | | | | | | |
| | **Terminal cover, broadened, for plug-in or draw-out socket**<br>• For touch protection in the termination area of the plug-in or draw-out socket<br>• For mounting on the plug-in or draw-out socket | | | | | | | | | | |
| <br>3VA9153-0KB05 | Versions<br>• 3-pole | ✓ | -- | -- | -- | | 3VA9153-0KB05 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9253-0KB05 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9163-0KB05 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9353-0KB05 | | 1 | 1 unit | 1CB |
| <br>3VA9154-0KB05 | • 4-pole | ✓ | -- | -- | -- | | 3VA9154-0KB05 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9254-0KB05 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9164-0KB05 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9354-0KB05 | | 1 | 1 unit | 1CB |

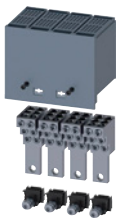
| | Version | Minimum mm² for stranded cable | Maximum mm² for stranded cable | For molded case circuit breakers/frame size | | | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 3VA1 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | | | | | | |
| **Circular conductor terminals specially for plug-in and draw-out units** | | | | | | | | | | | | | |
| <br>3VA9153-0JC12 | **Circular conductor terminal, large, with auxiliary conductor terminal**<br>Included in scope of supply:<br>3 single terminals and<br>1 extended terminal cover | 25 mm² | 150 mm² | ✓ | -- | -- | -- | | 3VA9153-0JC12 | | 1 | 1 unit | 1CB |
| | | 50 mm² | 240 mm² | -- | ✓ | -- | -- | | 3VA9253-0JC13 | | 1 | 1 unit | 1CB |
| | | 50 mm² | 240 mm² | -- | -- | ✓ | -- | | 3VA9263-0JC13 | | 1 | 1 unit | 1CB |
| <br>3VA9154-0JC12 | **Circular conductor terminal, large, with auxiliary conductor terminal**<br>Included in scope of supply:<br>4 single terminals and<br>1 extended terminal cover | 25 mm² | 150 mm² | ✓ | -- | -- | -- | | 3VA9154-0JC12 | | 1 | 1 unit | 1CB |
| | | 50 mm² | 240 mm² | -- | ✓ | -- | -- | | 3VA9254-0JC13 | | 1 | 1 unit | 1CB |
| | | 50 mm² | 240 mm² | -- | -- | ✓ | -- | | 3VA9264-0JC13 | | 1 | 1 unit | 1CB |



* You can order this quantity or a multiple thereof.

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| | Version | Minimum mm² for stranded cable | Maximum mm² for stranded cable | For molded case circuit breakers/frame size 3VA1 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  3VA9263-0JC22 | **Circular conductor terminal, 2 cables, with auxiliary conductor terminal** Included in scope of supply: 3 single terminals and 1 extended terminal cover | 2 x 25 mm² | 2 x 150 mm² | -- | ✓ | -- | -- | | **3VA9253-0JC22** | | 1 | 1 unit | 1CB |
| | | 2 x 25 mm² | 2 x 150 mm² | -- | -- | ✓ | -- | | **3VA9263-0JC22** | | 1 | 1 unit | 1CB |
| | | 2 x 70 mm² | 2 x 300 mm² | -- | -- | -- | ✓ | | **3VA9483-0JC23** | | 1 | 1 unit | 1CB |
|  3VA9264-0JC22 | **Circular conductor terminal, 2 cables, with auxiliary conductor terminal** Included in scope of supply: 4 single terminals and 1 extended terminal cover | 2 x 25 mm² | 2 x 150 mm² | -- | ✓ | -- | -- | | **3VA9254-0JC22** | | 1 | 1 unit | 1CB |
| | | 2 x 25 mm² | 2 x 150 mm² | -- | -- | ✓ | -- | | **3VA9264-0JC22** | | 1 | 1 unit | 1CB |
| | | 2 x 70 mm² | 2 x 300 mm² | -- | -- | -- | ✓ | | **3VA9484-0JC23** | | 1 | 1 unit | 1CB |
|  3VA9153-0JF60 | **Circular conductor terminal, 6 cables** Included in scope of supply: 3 single terminals and 1 extended terminal cover | 6 x 1.5 mm² | 6 x 35 mm² | ✓ | -- | -- | -- | | **3VA9153-0JF60** | | 1 | 1 unit | 1CB |
| | | 6 x 1.5 mm² | 6 x 35 mm² | -- | ✓ | -- | -- | | **3VA9253-0JF60** | | 1 | 1 unit | 1CB |
| | | 6 x 1.5 mm² | 6 x 35 mm² | -- | -- | ✓ | -- | | **3VA9263-0JF60** | | 1 | 1 unit | 1CB |
| | | 6 x 1.5 mm² | 6 x 35 mm² | -- | -- | -- | ✓ | | **3VA9383-0JF60** | | 1 | 1 unit | 1CB |
|  3VA9154-0JF60 | **Circular conductor terminal, 6 cables** Included in scope of supply: 4 single terminals and 1 extended terminal cover | 6 x 1.5 mm² | 6 x 35 mm² | ✓ | -- | -- | -- | | **3VA9154-0JF60** | | 1 | 1 unit | 1CB |
| | | 6 x 1.5 mm² | 6 x 35 mm² | -- | ✓ | -- | -- | | **3VA9254-0JF60** | | 1 | 1 unit | 1CB |
| | | 6 x 1.5 mm² | 6 x 35 mm² | -- | -- | ✓ | -- | | **3VA9264-0JF60** | | 1 | 1 unit | 1CB |
| | | 6 x 1.5 mm² | 6 x 35 mm² | -- | -- | -- | ✓ | | **3VA9384-0JF60** | | 1 | 1 unit | 1CB |
| **Auxiliary conductor terminals specially for plug-in and draw-out units** | | | | | | | | | | | | | |
|  3VA9280-0WB00 | **Auxiliary conductor terminal for box terminal** | | | ✓ | -- | -- | -- | | **3VA9150-0WB00** | | 1 | 10 unit | 1CB |
| | | | | -- | ✓ | ✓ | -- | | **3VA9280-0WB00** | | 1 | 10 unit | 1CB |
| | | | | -- | -- | -- | ✓ | | **3VA9480-0WB00** | | 1 | 10 unit | 1CB |
|  3VA9280-0WC00 | **Auxiliary conductor terminal for busbar** | | | ✓ | -- | -- | -- | | **3VA9150-0WC00** | | 1 | 10 unit | 1CB |
| | | | | -- | ✓ | ✓ | -- | | **3VA9280-0WC00** | | 1 | 10 unit | 1CB |
| | | | | -- | -- | -- | ✓ | | **3VA9480-0WC00** | | 1 | 10 unit | 1CB |

* You can order this quantity or a multiple thereof.

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## Plug-in and draw-out technology



### Overview

Using plug-in and draw-out technology the 3VA molded case circuit breakers can be installed/removed or replaced quickly and safely. In this case, the cables or busbars of the main current paths are connected to the connectors of the plug-in socket or the draw-out socket.

The termination areas of the sockets for these versions are designed in the same way as those of the molded case circuit breakers but, due to the different requirements for creepages and clearances, have slightly different dimensions.

This means that all connections without insulating measures (e.g. box terminals) from the range of breakers can also be used with the socket for plug-in or draw-out units.

Connections with insulating measures have their own article numbers and are listed below.

A 3VA molded case circuit breaker in the plug-in or draw-out version has plug-in contacts on the input and load side of the main terminals. When the circuit breaker is plugged or moved into the socket, the plug-in contacts slide into the socket-side tulip contacts and connect the main current paths with the circuit breaker. In addition, auxiliary circuit connectors can be used to connect the auxiliary and control signals from the internal accessories of the molded case circuit breaker to the outside.

The main differences between plug-in units and draw-out units are convenience of operation and the potential for functional expansion.

#### *Plug-in technology*

Plug-in technology is the less expensive and more space-saving of the two solutions. The plug-in version of the molded case circuit breaker is equipped with plug-in contacts on the back of the 3VA molded case circuit breaker. These make a friction-locked and keyed connection with the corresponding mating connectors in the plug-in socket. The plug-in unit can be supplied as a complete kit or as a conversion kit for breakers including screw-fastened terminal covers.

#### *Draw-out technology*

Draw-out versions of the molded case circuit breaker are also equipped with plug-in contacts at the main current paths. In addition, side walls including guide and support bolts are bolted to the sides of the molded case circuit breaker. With this version, the mating component is the draw-out socket. It is also equipped with a guide mechanism via which the molded case circuit breaker is moved into the draw-out socket by means of a handle in order to connect the breaker to the main circuits. The operator can clearly read from a position indicator whether the breaker is properly connected to the main circuits or safely isolated from them (so that it can be withdrawn).

Position signaling switches which transmit the position information CONNECT, TEST, and DISCONNECT can be integrated in the right-hand side wall of the draw-out unit. A special set of position signaling switches transfers the position data to the COM060 communication module via a preassembled wires.

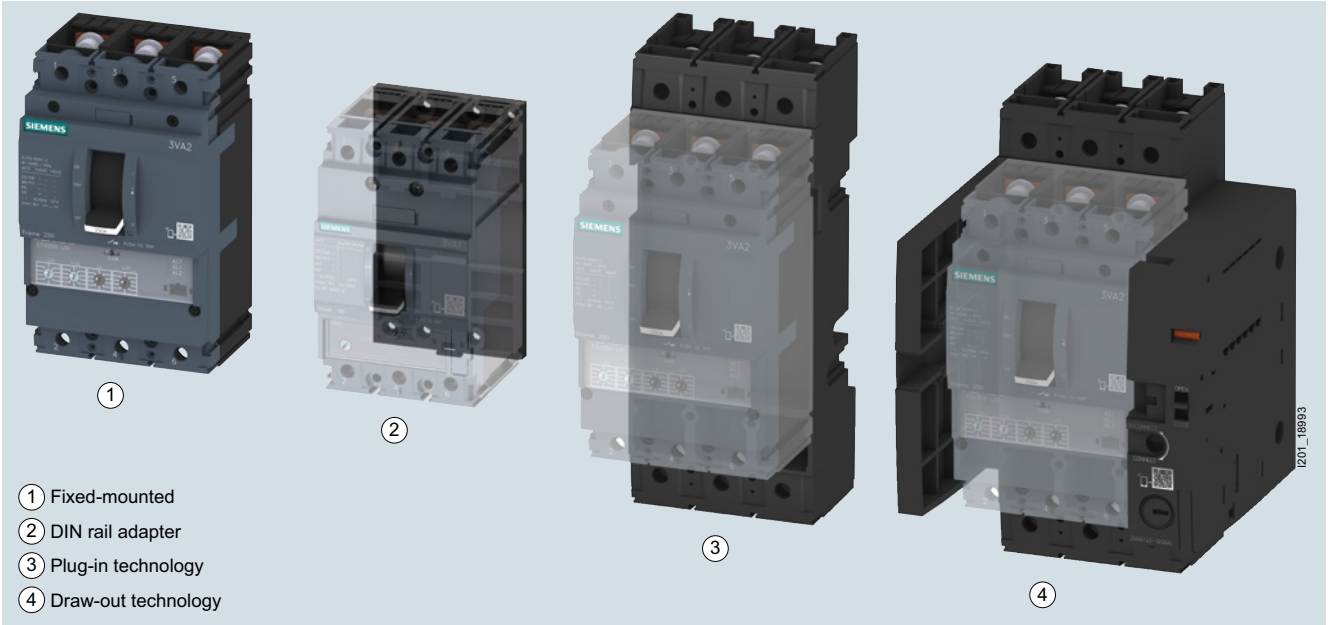
The draw-out complete kit as well as the draw-out conversion kit for one breaker are available. Both kits include screw-fastened terminal covers for the breaker. The crank handle for the draw-out unit must be ordered separately.

### Benefits

- Molded case circuit breakers can be replaced quickly and easily for the purpose of overhaul or servicing
- Electrical isolation and clearly visible isolating distance
- Socket can be interlocked to prevent the 3VA molded case circuit breaker from being plugged in or moved in
- Identical connection technology for all molded case circuit breakers, whether they are plug-in, draw-out or fixed-mounted units
- Test of the auxiliary and control circuit connections in the test position of the draw-out unit possible without contacted main current paths

Installation variants

3VA molded case circuit breakers are available in the following installation variants:




1 Fixed-mounted
2 DIN rail adapter
3 Plug-in technology
4 Draw-out technology

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## Selection and ordering data

| | Version | For molded case circuit breakers/frame size 3VA1 160 A | 3VA1 250 A | 3VA2 100 A 160 A, 250 A | 3VA2 400 A, 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Plug-in socket** | | | | | | | | | | | |
| | **Plug-in unit, complete kit**<br>Comprising:<br>• Plug-in socket<br>• Conversion sets<br>• Mounting screw kit | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| <br>3VA9123-0KP00 | • 3-pole | ✓ | -- | -- | -- | | 3VA9113-0KP00 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9213-0KP00 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9123-0KP00 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9323-0KP00 | | 1 | 1 unit | 1CB |
| <br>3VA9124-0KP00 | • 4-pole | ✓ | -- | -- | -- | | 3VA9114-0KP00 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9214-0KP00 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9124-0KP00 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9324-0KP00 | | 1 | 1 unit | 1CB |
| | **Plug-in unit, conversion kit**<br>Comprising:<br>• Screw-fastened terminal covers for molded case circuit breakers<br>• Plug-in contacts<br>• Cable cage<br>• Autotrip plunger | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| <br>3VA9123-0KP10 | • 3-pole | ✓ | -- | -- | -- | | 3VA9113-0KP10 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9213-0KP10 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9123-0KP10 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9323-0KP10 | | 1 | 1 unit | 1CB |
| <br>3VA9124-0KP10 | • 4-pole | ✓ | -- | -- | -- | | 3VA9114-0KP10 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9214-0KP10 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9124-0KP10 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9324-0KP10 | | 1 | 1 unit | 1CB |

* You can order this quantity or a multiple thereof.

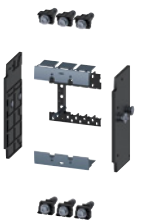
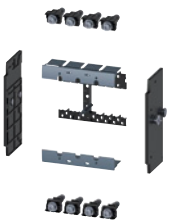
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## Plug-in and draw-out technology

### Draw-out units

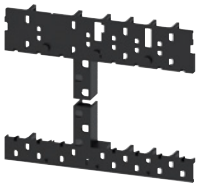
| | Version | For molded case circuit breakers/frame size 3VA1 160 A | 3VA1 250 A | 3VA2 100 A, 160 A, 250 A | 3VA2 400 A, 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  3VA9123-0KD00 | **Draw-out unit, complete kit**<br>Comprising:<br>• Draw-out socket<br>• Conversion sets<br>• Mounting screw kit | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| | • 3-pole | -- | ✓ | -- | -- | | 3VA9213-0KD00 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9123-0KD00 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9323-0KD00 | | 1 | 1 unit | 1CB |
|  3VA9124-0KD00 | • 4-pole | -- | ✓ | -- | -- | | 3VA9214-0KD00 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9124-0KD00 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9324-0KD00 | | 1 | 1 unit | 1CB |
|  3VA9123-0KD10 | **Draw-out unit, conversion kit**<br>Conversion kit comprising:<br>• Screw-fastened terminal covers for molded case circuit breakers<br>• Side wall<br>• Plug-in contacts<br>• Cable cage<br>• Autotrip plunger | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| | • 3-pole | -- | ✓ | -- | -- | | 3VA9213-0KD10 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9123-0KD10 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9323-0KD10 | | 1 | 1 unit | 1CB |
|  3VA9124-0KD10 | • 4-pole | -- | ✓ | -- | -- | | 3VA9214-0KD10 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9124-0KD10 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9324-0KD10 | | 1 | 1 unit | 1CB |



* You can order this quantity or a multiple thereof.

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| | Version | For molded case circuit breakers/frame size 3VA1 160 A | 3VA1 250 A | 3VA2 100 A 160 A, 250 A | 3VA2 400 A, 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Cable cage** | | | | | | | | | | | |
|  3VA9167-0KB02 | **Cable cage for plug-in/draw-out unit 3-/4-pole (spare part)** Cable duct for routing of the required cables from the internal accessories on the back of the circuit breaker | ✓ | -- | -- | -- | | 3VA9157-0KB02 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9257-0KB02 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9167-0KB02 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9367-0KB02 | | 1 | 1 unit | 1CB |
| **Door feedthrough** | | | | | | | | | | | |
|  3VA9167-0KT00 | **Door feedthrough** | -- | ✓ | -- | -- | | 3VA9257-0KT00 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9167-0KT00 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9367-0KT00 | | 1 | 1 unit | 1CB |

* You can order this quantity or a multiple thereof.

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| | Version | For molded case circuit breakers/frame size | | | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3VA1 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | | | | | | |
| **Other accessories** | | | | | | | | | | | |
|  3VA9987-0KC00 | **Communication link for draw-out unit**<br>Comprising:<br>• Cable kit with 3 special position signaling switches<br>• Connecting cable 3VA9987-0KC10 | | | | | | 3VA9987-0KC00 | | 1 | 1 unit | 1CB |
|  3VA9987-0KB00 | **Position signaling switches**<br>• For draw-out unit<br>• For plug-in unit | | | | | | 3VA9987-0KB00 | | 1 | 1 unit | 1CB |
|  3VA9987-0KC10 | **Spare connecting cable**<br>To connect the position signaling switches for communication with the COM060 | | | | | | 3VA9987-0KC10 | | 1 | 1 unit | 1CB |
|  3VA9987-0KD81 | **Crank handle for draw-out unit**<br>Insulated, incl. crank holder | | | | | | 3VA9987-0KD81 | | 1 | 1 unit | 1CB |
|  3VA9987-0KD80 | **Auxiliary circuit connector** | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| | • For all draw-out units | | | | | | 3VA9987-0KD80 | | 1 | 1 unit | 1CB |
| | • For all plug-in units | | | | | | 3VA9987-0KP80 | | 1 | 1 unit | 1CB |
| | Note | | | | | | | | | | |
| | All auxiliary circuit connectors are designed to connect 4 cables. | | | | | | 3VA9987-0KD80 | | 1 | 1 unit | 1CB |

| | Version | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|
|  3VA9980-0VL10 | **Cylinder lock (type Ronis)**<br>• Includes a lock with 2 keys<br>• For locking<br>• For installation in all rotary operators with shaft stub<br>• For mounting in the adapter kit for the accessories compartment | Key 1 | | 3VA9980-0VL10 | | 1 | 1 unit | 1CB |
| | | Key 2 | | 3VA9980-0VL20 | | 1 | 1 unit | 1CB |
| | | Key 3 | | 3VA9980-0VL30 | | 1 | 1 unit | 1CB |
| | | Key 4 | | 3VA9980-0VL40 | | 1 | 1 unit | 1CB |
|  3VA9980-0LF40 | **Cylinder lock adapter for draw-out unit**<br>• For fitting a cylinder lock in the right-hand side wall of the draw-out unit<br>• To prevent unauthorized withdrawal or insertion of the circuit breaker into the draw-out unit<br>• Circuit breaker can be locked in the CONNECT, TEST and DISCONNECT positions | | | 3VA9980-0LF40 | | 1 | 1 unit | 1CB |



* You can order this quantity or a multiple thereof.

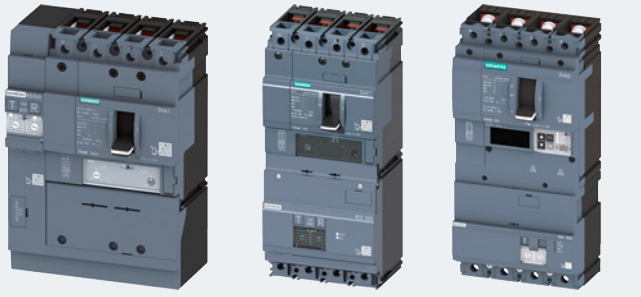
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## Overview

Residual current devices can be used to prevent or reduce hazardous residual currents that could cause injury to personnel and livestock, and damage to property. These are available as accessory components for the 3VA series up to the largest circuit breaker size. All residual current devices detect both purely sinusoidal AC residual currents as well as pulsating DC residual currents (type A), and the combination of molded case circuit breakers or switch disconnectors with mounted residual current devices complies with IEC 60947-2 Annex B, while the combination with modular residual current devices complies with IEC 60947-2 Annex M.



RCD510 RCD520 RCD820

***Residual current devices "Basic" type for 3VA1***

The "Basic" type residual current devices are characterized by the following features:

- LEDs for signaling "ready" state and pre-alarms
- Tripped signal at device and via electrical contacts

On the residual current devices of the 5-series (RCD5..), tripping can be delayed by up to three seconds so that in the event of a fault, only the branch containing the fault is switched off by means of appropriate selective grading of the series-switched residual current devices. The device types of the 3-series (RCD3..) are instantaneous versions, in other words, they trip immediately.

RCD310 and RCD510

The RCD310/RCD510 can be combined with the 3VA1 molded case circuit breaker and the switch disconnector. They are mounted on the left side of the breaker. In the event of a residual current, the breaker is tripped by an RCR (residual current release) built into the left accessories compartment of the breaker.

RCD320 and RCD520

The RCD320 or RCD520 can be installed below the trip unit of the 3VA1 molded case circuit breaker. Equipping the molded case circuit breaker fully with internal accessories is easy because with these residual current devices, the molded case circuit breaker is tripped by a tappet that is already integrated into the residual current device and the circuit breaker.

***Residual current devices "Advanced" type for 3VA2***

RCD820

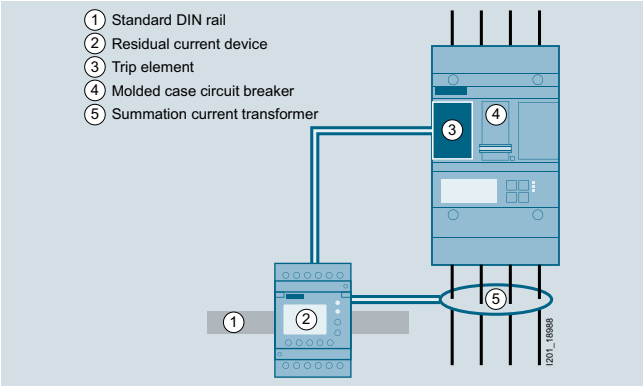
"Advanced" residual current devices can detect fault type A currents up to 10 A and type AC up to 30 A. Status message can be forwarded via the large number of auxiliary contacts on the unit or via the communication connection. LEDs for signaling the "ready" state of the residual current device, the communication connection, and the two pre-alarms on the residual current device provide information on the current status on-site.

***Modular residual current device for 3VA1/3VA2***

As well as a residual current device mounted direct on the breaker, an external solution is also available.

The modular solution consists of a residual current protection device, a separate summation current transformer and a trip element. If the trip element is omitted, the combination of residual current device and summation current transformer works purely as a display unit.

For further information, see chapter "Monitoring Devices" in the section on residual current protection devices (MRCD).




Modular residual current device

## Benefits

***RCD310 and RCD510***

- Increased packaging density in the cubicle thanks to the compact L-shaped design
- Through-hole technology saves inconvenient wiring of the breaker and the residual current device
- Mounting of a DIN rail adapter enables attachment to a DIN rail
- Side-by-side arrangement with miniature circuit breakers possible thanks to 45 mm cover size
- Function of a shunt trip automatically integrated by RCR dual functionality
- Deliberate acknowledgment of a residual current prevents unintentional restart
- Can be used purely as a display unit

***RCD320 and RCD520***

- Compact design saves space in the cubicle
- Deliberate acknowledgment of a residual current prevents unintentional restart

***RCD820***

- Communication connection or alternatively electrical contacts ensure fast status messages – even remotely
- Advanced RCD820 is also suitable for use as a display unit
- Staggered pre-alarms prevent/avoid plant downtimes
- Local presence not required thanks to remote test, acknowledgment and commissioning of the RCD820 via electrical contacts or communication

***Modular residual current device***

- Modular design allows mounting on different breaker designs (e.g. 1, 2, 3 and 4-pole breakers)
- Reuse in the event of a change of application ensures cost savings
- Time savings thanks to simple upgrading of the residual current functionality in an existing plant
- Especially suitable for use where installation space is restricted

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## Selection and ordering data

| | Version | For molded case circuit breakers/ frame size 3VA1 160 A | For molded case circuit breakers/ frame size 3VA1 250 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|
| **Side mounted residual current devices RCD for 3VA1** | | | | | | | | | |
| | **Type A** (pulse current sensitive)<br>• Mounted on the side (left)<br>• Trip element (RCR) included in the scope of delivery<br>• Can be mounted on molded case circuit breakers and switch disconnectors with box terminal<br>• $U_e$ = 127 - 480 V AC, 50/60 Hz | | | | | | | | |
| | Note<br>If the molded case circuit breaker has no box terminals as connections, a set of box terminals must be ordered additionally. | | | | | | | | |
|  3VA9114- 0RS10 | **RCD310**<br>• 4-pole<br>• Rated residual response current, adjustable: $I_{\Delta n}$ = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 A; default: 30 mA<br>• Instantaneous (INS) | ✓ | -- | | 3VA9114- 0RS10 | | 1 | 1 unit | 1CB |
|  3VA9113-0RS20 | **RCD510**<br>• Rated residual response current, adjustable: $I_{\Delta n}$ = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 A; default: 30 mA<br>• Delay time, adjustable: $\Delta t$ = instantaneous (INS) - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3 s; default: instantaneous (INS) | | | | | | | | |
| | Versions | | | | | | | | |
| | • 3-pole | ✓ | -- | | 3VA9113-0RS20 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | | 3VA9213-0RS20 | | 1 | 1 unit | 1CB |
| | • 4-pole | ✓ | -- | | 3VA9114-0RS20 | | 1 | 1 unit | 1CB |
|  3VA9114-0RS20 | | -- | ✓ | | 3VA9214-0RS20 | | 1 | 1 unit | 1CB |
| | **Type A** (pulse current sensitive)<br>• Mounted below (under trip unit)<br>• Can be mounted on molded case circuit breakers<br>• $U_e$ = 127 - 480 V AC, 50/60 Hz | | | | | | | | |
|  3VA9114-0RL10 | **RCD320**<br>• 4-pole<br>• Rated residual response current, adjustable: $I_{\Delta n}$ = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 A; default: 30 mA<br>• Instantaneous (INS) | ✓ | -- | | 3VA9114-0RL10 | | 1 | 1 unit | 1CB |
|  3VA9113-0RL20 | **RCD520**<br>• Rated residual response current, adjustable: $I_{\Delta n}$ = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 A; default: 30 mA<br>• Delay time, adjustable: $\Delta t$ = instantaneous (INS) - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3 s; default: instantaneous (INS) | | | | | | | | |
| | Versions | | | | | | | | |
| | • 3-pole | ✓ | -- | | 3VA9113-0RL20 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | | 3VA9213-0RL20 | | 1 | 1 unit | 1CB |
| | • 4-pole | ✓ | -- | | 3VA9114-0RL20 | | 1 | 1 unit | 1CB |
|  3VA9114-0RL20 | | -- | ✓ | | 3VA9214-0RL20 | | 1 | 1 unit | 1CB |



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| | Version | For molded case circuit breakers/frame size | | | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3VA2 100 A 160 A | 3VA2 250 A | 3VA2 400 A | 3VA2 630 A | | | | | | |
| **Residual current devices RCD for 3VA2** | | | | | | | | | | | |
| | **Type A** (pulse current sensitive)<br>• Mounted below (under trip unit)<br>• With energy infeed from below, the required auxiliary switch (AUX) must be ordered separately.<br>• $U_e$ = 127 - 690 V AC, 50/60 Hz | | | | | | | | | | |
| <br>3VA9123-0RL30 | **RCD820**<br>• Rated residual response current, adjustable: $I_{\Delta n}$ = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 - 10 - 30 A; default: 30 mA<br>• Delay time, adjustable: $\Delta t$ = 0 - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3 - 5 - 10 s; default: instantaneous (INS)<br>• Note: 30 A setting range only for type AC applications | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| | • 3-pole | ✓ | -- | -- | -- | | **3VA9123-0RL30** | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | **3VA9223-0RL30** | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | **3VA9323-0RL30** | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | **3VA9423-0RL30** | | 1 | 1 unit | 1CB |
| <br>3VA9124-0RL30 | • 4-pole | ✓ | -- | -- | -- | | **3VA9124-0RL30** | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | **3VA9224-0RL30** | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | **3VA9324-0RL30** | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | **3VA9424-0RL30** | | 1 | 1 unit | 1CB |

*** You can order this quantity or a multiple thereof.**

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2

## Overview

### *Metering function*

The Rogowski coils integrated in the 3VA2 molded case circuit breakers are capable of delivering particularly accurate current measurements. An additional voltage tap is integrated in molded case circuit breakers equipped with an 8-series ETU, which means that energy data can also be measured – the 3VA2 molded case circuit breaker therefore offers a range of metering functions similar to those available with the tried-and-tested 7KM PAC measuring device!

An external current transformer for N conductors is available to allow direct measurement of the neutral conductor current with 3-pole molded case circuit breakers. When the 3-pole circuit breaker is installed in the 4-pole network, it is advisable to deploy the voltage tap at the neutral conductor so that the neutral point of the voltage network can be fixed.

### *Communication via the COM800/COM100 breaker data server*

The 3VA2 molded case circuit breaker utilizes an innovative, modern communication concept. This concept is based on the COM800 breaker data server which can link up to eight molded case circuit breakers to different bus systems. For applications involving only one 3VA2 molded case circuit breaker, the COM100 is an ideal alternative to the COM800 breaker data server.

The COM060 communication module in the molded case circuit breaker is wired via a T-Connector to the COM800/COM100 breaker data server. Integrated as standard in the COM800/COM100 breaker data server is an Ethernet interface with the Modbus TCP protocol to allow communication with powerconfig and the powermanager. Optional communication modules can be installed to provide different communication protocols. An additional benefit of this structure is that the communication costs per molded case circuit breaker decrease with every further circuit breaker that is connected to the COM800 breaker data server.

The communication equipment for the molded case circuit breakers can be installed and connected extremely easily, reliably and efficiently thanks to the connector system used. The 24 V DC supply to the electronic trip units is also reliably provided by these connections. The breaker data server utilizes independent supplementary functions to deliver valuable information about the connected molded case circuit breakers and the power distribution system.

Flexible communication thanks to optional expansion modules

With COM800/COM100, the 3VA2 molded case circuit breakers can be integrated into the relevant communication networks via the following optional expansion modules:

- Switched Ethernet PROFINET IO
- PROFIBUS DPV1
- RS 485 / Modbus RTU

GSDML or GSD files are also available for PROFINET and PROFIBUS for integration into the engineering system, e.g. STEP 7.

### *DSP800 display*

The DSP800 display can be used to show breaker information (status, measured values, parameters) on the cubicle door. It communicates via the integral Ethernet interface with the COM800/COM100 and is thus able to display the data of up to 8 3VA2 molded case circuit breakers simultaneously.

### *EFB300 external function box*

The EFB300 external function box is linked directly to the ETU of the 3VA2 molded case circuit breaker by a cable. It provides four digital outputs and one digital input. The powerconfig software can be used to set which information is to be output from the ETU via the four digital outputs:

- All reasons for tripping, categorized according to LSING
- Overload alarms AL1 and AL2
- Pre-trip alarm from overload protection system
- Load shedding and load pick-up
- Temperature alarm
- Output of an energy pulse (S0 signal), in combination with an 8-series ETU only

A zone selective interlocking functionality (ZSI) can also be implemented via the module.

Note:

A TD500 or the COM060 and COM800/COM100 combination is needed to program a change in the output assignments with powerconfig.

### *TD300 and TD500 test devices*

The TD300 activation and trip box is a mobile, battery-operated local test device. One of its functions is to provide a temporary power supply to the Electronic Trip Units (ETUs) so that they can be operated and parameterized. It is also used to test the tripping function of the molded case circuit breaker.

The TD500 mobile test device allows the proper functioning and connections of all connected system components to be tested at the breaker commissioning stage because it is capable of simulating every conceivable cause of breaker tripping. The molded case circuit breaker responds as if the emergency were real – it trips in accordance with the set parameters and transmits all alarm and trip signals to the connected components.

The TD500 test device can be used as a hand-held tester or in conjunction with a PC. In the latter case, the TD500 test device is connected to the PC via a supplied USB cable and acts as a gateway to the 3VA2 molded case circuit breaker. Using the powerconfig software, it is possible to read out or modify the setting parameters of the molded case circuit breaker and monitor the measured values.

## Benefits

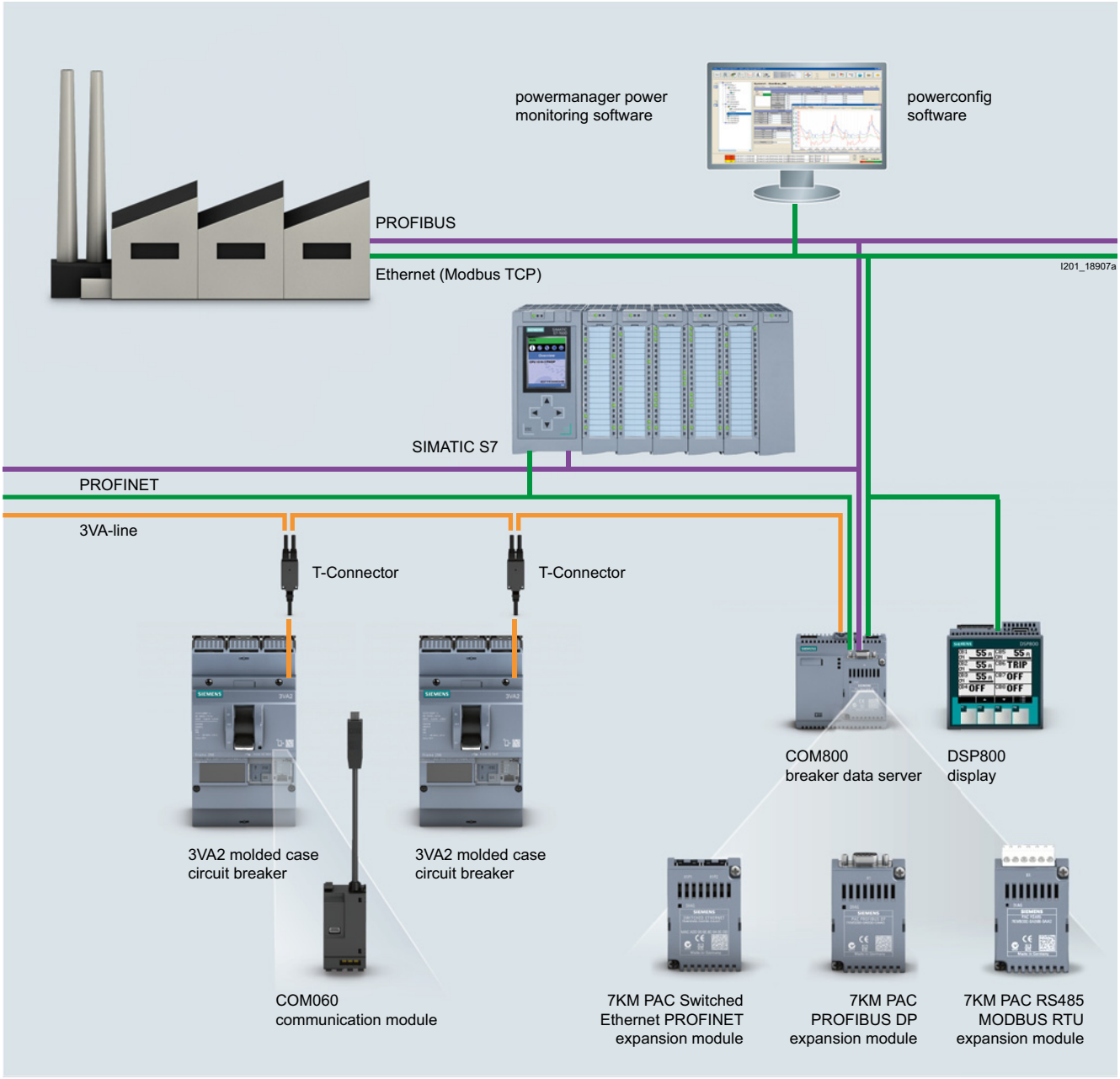
- The metering function integrated in 8-series ETUs can acquire energy data without requiring additional external transformers
- The COM800 breaker data server provides a cost-efficient communication interface for up to 8 3VA2 molded case circuit breakers
- Universal bus interfaces are available for the COM800/COM100 breaker data server
- Universal S0 interface for the output of energy pulses
- 100 test results can be stored with the TD500 test device
- Status and measured values of up to 8 molded case circuit breakers are displayed in the cubicle door using the DSP800

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## Design



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## Communication and testing/commissioning devices



### *Overview of the metering functions*

| Metering function[1] | | | ETUs of the 5-series | ETUs of the 8-series | Display In ETU | Display DSP800 | Communication COM800 / COM100 |
|---|---|---|---|---|---|---|---|
| **Current** | | | | | | | |
| Phase and neutral conductor currents | $I_1, I_2, I_3, I_N$ | A | ✓ | ✓ | 👁 | 👁 | 👁 |
| Residual current to ground | $I_g$ | A | ✓ | ✓ | 👁 | 👁 | 👁 |
| Phase with highest load | | A | ✓ | ✓ | 👁 | 👁 | 👁 |
| Mean value over the three phase currents | $I_{LAVG} = (I_1+I_2+I_3)/3$ | A | -- | ✓ | -- | 👁 | 👁 |
| Asymmetry of the phase currents | $I_{nba}$ | % | -- | ✓ | -- | 👁 | 👁 |
| THD of the 3 phases | $THDI_1$, $THDI_2$, $THDI_3$ | % | -- | ✓ | -- | 👁 | 👁 |
| **Voltage** | | | | | | | |
| Phase voltages incl. mean value | $U_{12}$, $U_{23}$, $U_{31}$, $U_{phavg}$ | V | -- | ✓ | 👁 | 👁 | 👁 |
| Voltages to N conductor incl. mean value | $U_{1N}$, $U_{2N}$, $U_{3N}$, $U_{Navg}$ | V | -- | ✓ | -- | 👁 | 👁 |
| Asymmetry of the voltages | | % | -- | ✓ | -- | 👁 | 👁 |
| THD phase/phase and phase/N | $THDI_1$, $THDI_2$, $THDI_3$ | % | -- | ✓ | -- | 👁 | 👁 |
| **Rating** | | | | | | | |
| Active power, total and per phase | $P_1$, $P_2$, $P_3$, $P_{tot}$ | kW | -- | ✓ | 👁 ($P_{tot}$) | 👁 | 👁 |
| Apparent power, total and per phase | $S_1$, $S_2$, $S_3$, $S_{tot}$ | kVA | -- | ✓ | -- | 👁 | 👁 |
| Reactive power, total and per phase | $Q_1$, $Q_2$, $Q_3$, $Q_{tot}$ | kVAr | -- | ✓ | 👁 | 👁 | 👁 |
| Fundamental power factor | $PF_1$, $PF_2$, $PF_3$, $PF_{avg}$ | | -- | ✓ | 👁 ($PF_{avg}$) | 👁 | 👁 |
| **Energy** | | | | | | | |
| Active energy, infeed and feedback | $E_p$ | kWh | -- | ✓ | 👁 | 👁 | 👁 |
| Reactive energy, infeed and feedback | $E_q$ | kVArh | -- | ✓ | -- | 👁 | 👁 |
| Apparent energy | $E_s$ | kVAh | -- | ✓ | -- | 👁 | 👁 |
| **Frequency** | | | | | | | |
| Present frequency | f | Hz | -- | ✓ | 👁 | 👁 | 👁 |
| **Maximum pointer function** | | | | | | | |
| Min/max current, voltage, power | with time stamp | | -- | -- | -- | -- | 👁 |

[1] Depending on ETU version

✓ Available -- Not available

👁 Displayable

### *Accuracy specifications*

Accuracy levels of the specified measured values of the 8-series ETU, including the integrated current sensors:

| Measured value | Accuracy |
|---|---|
| Current | 1 % in the range from 0.2 ... 1.2 $I_n$ |
| Voltage | 1 % in the range from 80 ... 800 V |
| Active power, active energy | Class 2 acc. to IEC 61557-12 |

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## Selection and ordering data

| | Version | For molded case circuit breakers/ frame size 3VA2 100 A 160 A, 250 A | For molded case circuit breakers/ frame size 3VA2 400 A, 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|
| **24 V module** | | | | | | | | | |
|  3VA9187-0TB50 | **24 V module**<br>• 24 V DC<br>• For mounting in the right accessories compartment of the 3VA2<br>• Optional energy supply for the ETU, also includes continuous operation of the ETU display and the metering function of the ETU 8-series | ✓ | -- | | 3VA9187-0TB50 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | | 3VA9387-0TB50 | | 1 | 1 unit | 1CB |
| **Communication accessories in the molded case circuit breaker** | | | | | | | | | |
|  3VA9187-0TB10 | **COM060 communication module**<br>• For mounting in the right-hand accessories compartment of the 3VA2 molded case circuit breaker (including ETU power supply)<br>• Communication with the COM800/COM100 breaker data server via the 3VA-line<br>• Including a T-Connector | ✓ | -- | | 3VA9187-0TB10 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | | 3VA9387-0TB10 | | 1 | 1 unit | 1CB |
| **Breaker data server** | | | | | | | | | |
|  3VA9987-0TA10 | **COM800 breaker data server**<br>• 2 terminating resistors<br>• Central communication module for connecting up to eight 3VA2 molded case circuit breakers via the 3VA-line<br>• Ethernet 10/100 Mbit/s interface<br>• Module slot for plugging on an optional PROFIBUS DP or PROFINET module | | | | 3VA9987-0TA10 | | 1 | 1 unit | 1CB |
|  3VA9987-0TA20 | **COM100 breaker data server**<br>• 2 terminating resistors<br>• Optimized, central communication module for connecting a 3VA2 molded case circuit breaker via the 3VA-line<br>• Ethernet 10/100 Mbit/s interface<br>• Module slot for plugging on an optional PROFIBUS DP or PROFINET module | | | | 3VA9987-0TA20 | | 1 | 1 unit | 1CB |
|  7KM9300-0AB01-0AA0 | **7KM PAC PROFIBUS DP expansion module**<br>• The 7KM PAC PROFIBUS DP expansion module is used for connecting the COM800/COM100 breaker data server, and the 3VA molded case circuit breakers connected to it, to PROFIBUS DPV1.<br>• The 7KM PAC PROFIBUS DP expansion module provides the status and measured quantities of the 3VA molded case circuit breaker for the PROFIBUS DP master. It receives information (e.g. commands) from the PROFIBUS DP master, and forwards this information to the 3VA molded case circuit breaker. | | | | 7KM9300-0AB01-0AA0 | | 1 | 1 unit | 1DD |
|  7KM9300-0AE01-0AA0 | **7KM PAC Switched Ethernet PROFINET expansion module**<br>• The 7KM PAC Switched Ethernet PROFINET expansion module is used to connect the COM800/COM100 breaker data server, and the connected 3VA molded cased circuit breaker, to PROFINET via two Ethernet interfaces.<br>• The 7KM PAC Switched Ethernet PROFINET expansion module provides the status and measured quantities of the 3VA molded case circuit breaker to PROFINET via the PROFINET IO, PROFIenergy and Modbus TCP protocols. | | | | 7KM9300-0AE01-0AA0 | | 1 | 1 unit | 1DD |
|  7KM9300-0AE01-0AA0 | **7KM PAC RS485 Modbus RTU expansion module**<br>• The 7KM PAC RS485 Modbus expansion module is used to connect the COM800/COM100 breaker data server, and the 3VA molded case circuit breakers connected to it, to Modbus RTU.<br>• The 7KM PAC RS485 Modbus expansion module provides the status and measured quantities of the 3VA molded case circuit breaker for the Modbus RTU master. It receives information (e.g. commands) from the Modbus RTU master, and forwards this information to the 3VA molded case circuit breaker. | | | | 7KM9300-0AM00-0AA0 | | 1 | 1 unit | 1DD |

*** You can order this quantity or a multiple thereof.**

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## Communication and testing/commissioning devices



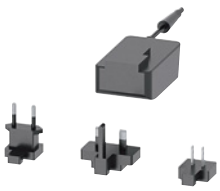
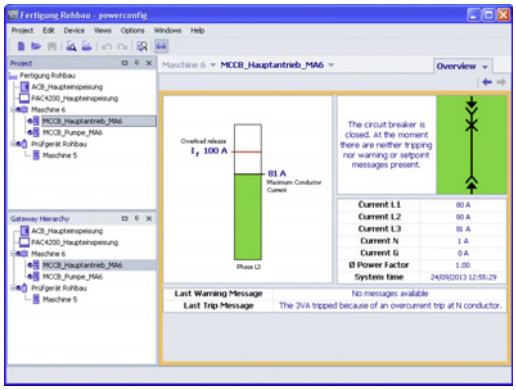
| | Version | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|
| **Accessories for communication** | | | | | | | |
|  3VA9987-0TG10 | **T-Connector**<br>• Spare part<br>• Provides spur line feeder to COM060 and loops through to the next circuit breaker. | | 3VA9987-0TG10 | | 1 | 1 unit | 1CB |
|  3VA9987-0TC10 | **Preassembled T-Connector-to-T-Connector or T-Connector-to-COM800/COM100 connecting cable** | | | | | | |
| | • 0.4 m long | | 3VA9987-0TC10 | | 1 | 1 unit | 1CB |
| | • 1 m long | | 3VA9987-0TC20 | | 1 | 1 unit | 1CB |
| | • 2 m long | | 3VA9987-0TC30 | | 1 | 1 unit | 1CB |
| | • 4 m long | | 3VA9987-0TC40 | | 1 | 1 unit | 1CB |
|  3VA9987-0TF20 | **Preassembled connecting cable for extending the COM060-to-T-Connector spur line connection** | | | | | | |
| | • 0.4 m long | | 3VA9987-0TF20 | | 1 | 1 unit | 1CB |
| | • 0.8 m long | | 3VA9987-0TF10 | | 1 | 1 unit | 1CB |
|  3VA9987-0TE10 | **Additional bus terminating resistors** | | 3VA9987-0TE10 | | 1 | 5 units | 1CB |
|  3VA9987-0UC10 | **Voltage tap to external N conductor**<br>Cable for connecting the neutral point for the metering function of the 8-series ETU, length 1.5 m | | 3VA9987-0UC10 | | 1 | 1 unit | 1CB |
|  3VA9107-0NA10 | **External current transformer for N conductor**<br>Connection of an external current transformer for the N conductor for 3-pole 3VA2 molded case circuit breakers for 5-series and 8-series ETUs, including connecting cable | • $I_n$ = 25 ... 100 A | 3VA9007-0NA10 | | 1 | 1 unit | 1CB |
| | | • $I_n$ = 160 ... 250 A | 3VA9107-0NA10 | | 1 | 1 unit | 1CB |
| | | • $I_n$ = 400 ... 630 A | 3VA9307-0NA10 | | 1 | 1 unit | 1CB |
| | **Spare part: cable for connecting external current transformer for N conductor** | | 3VA9907-0NB10 | | 1 | 1 unit | 1CB |
| **Displays** | | | | | | | |
|  3VA9987-0TD10 | **DSP800 display**<br>• For displaying the status, measured values and parameters of up to 8 3VA2 molded case circuit breakers<br>• Connection to the COM800/COM100 via Ethernet for displaying information of the COM800/COM100 and the connected 3VA2 molded case circuit breaker | | 3VA9987-0TD10 | | 1 | 1 unit | 1CB |
| **External function box** | | | | | | | |
|  3VA9987-0UA10 | **EFB300**<br>• External function box for connection to the ETU of the 3VA2 molded case circuit breaker<br>• 4 digital outputs for information output<br>• 1 digital input<br>• ZSI functionality<br>• S0 interface<br>• Including cable 1.5 m in length | | 3VA9987-0UA10 | | 1 | 1 unit | 1CB |
| | **Connecting cable for EFB300**<br>Spare part | | | | | | |
| | • Length 1.5 m | | 3VA9987-0UB10 | | 1 | 1 unit | 1CB |
| | • Length 3.0 m | | 3VA9987-0UB20 | | 1 | 1 unit | 1CB |
| | • Length 3.0 m for 3VA2 with EFB and RCD820 | | 3VA9987-0UB30 | | 1 | 1 unit | 1CB |



* You can order this quantity or a multiple thereof.

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| | Version | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|
| **Test devices** | | | | | | | |
|  3VA9987-0MA10 | **TD300**<br>• Connection to the front interface of the ETU<br>• Test device for activating the ETU and triggering a test trip | | 3VA9987-0MA10 | | 1 | 1 unit | 1CB |
|  3VA9987-0MB10 | **TD500**<br>• Connection to the front interface of the ETU<br>• Initiation of various test trips (LSING)<br>• USB interface for connection of a PC using powerconfig<br>• ETU parameterization<br>• Including an external power supply<br>• Including connecting cable to the 3VA2 molded case circuit breaker | | 3VA9987-0MB10 | | 1 | 1 unit | 1CB |
|  3VA9987-0MX10 | **Spare part: external power supply for TD500**<br>Spare part 110 ... 240 V AC | | 3VA9987-0MX10 | | 1 | 1 unit | 1CB |
|  3VA9987-0MY10 | **Spare part: cable for connecting the TD500 to the 3VA2 molded case circuit breaker** | | 3VA9987-0MY10 | | 1 | 1 unit | 1CB |
| **Commissioning and service software: powerconfig** | | | | | | | |
| | <br>• Commissioning and service software for 3VA2 molded case circuit breakers and further SENTRON components<br>• For Windows XP, Windows 7 and Windows 8<br>• Connection via TD500 or COM800/COM100<br>• Languages: German, English, Chinese, Spanish, Portuguese<br>• Enables complete use of the electronic components of the 3VA2 such as ETU, EFB300, DSP800, TD500<br>• Communication via PROFINET, PROFIBUS, Ethernet Modbus TCP and RS 485 with Modbus RTU<br>• See also chapter "Software" "Configuring, visualizing and controlling with SENTRON".<br>• powerconfig can be downloaded free of charge from Siemens Industry Online Support at http://support.automation.siemens.com/WW/view/en/63452759<br>• More information can be found on the Internet at www.siemens.com/sentron. | | | | | | |

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## Overview

With all types of 3VA molded case circuit breakers, a basic distinction is made between:

- Locking of molded case circuit breakers
- Interlocking of molded case circuit breakers

The padlock devices make it possible to lock the 3VA molded case circuit breaker in either the OFF or the ON operating position.

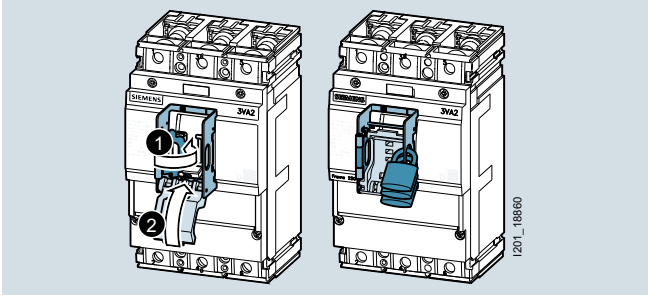
Using the interlocking technology, it is possible to mutually interlock two or more molded case circuit breakers. The interlock system is designed to ensure that no more than one molded case circuit breaker can be operated at a time. The following methods of interlocking can be used on 3VA molded case circuit breakers:

- Front interlock
- Rear interlock

### *Locking technology*

Padlock device for the handle

A padlock device mounted and latched on the handle allows the 3VA molded case circuit breaker to be locked in the OFF or the ON position.

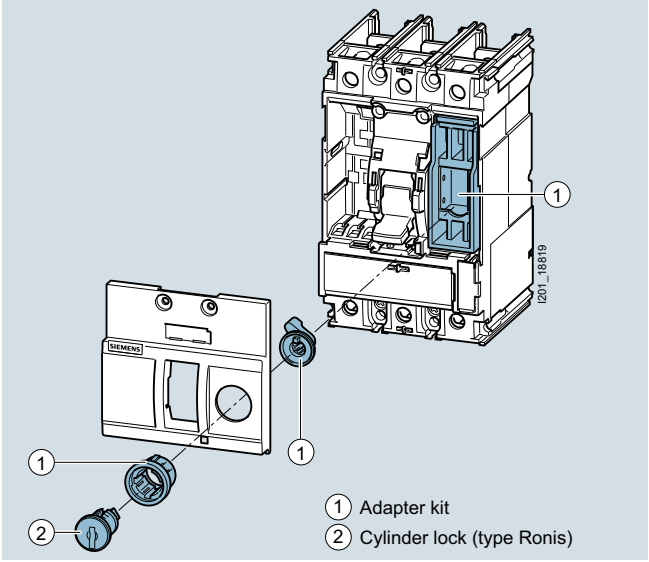



Locking with cylinder lock

The 3VA molded case circuit breaker can also be locked in the OFF (O) or ON (I) position by means of a cylinder lock supplied by Ronis. This prevents further operation of the circuit breaker.

In order to lock a molded case circuit breaker in a specific operating state, the following two components need to be ordered.

- Cylinder lock (type Ronis)
- Lock adapter kit for mounting the cylinder lock in the accessories compartment

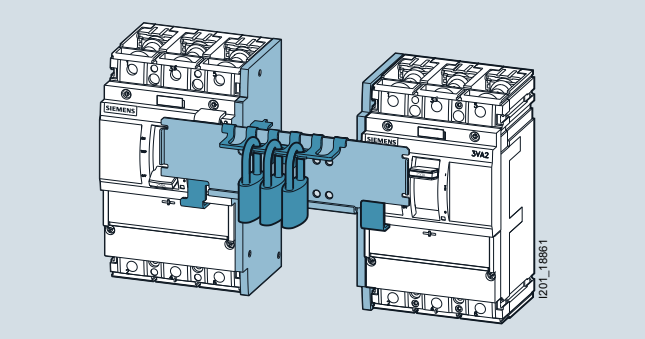



### *Interlocking technology*

Interlocking by means of a sliding bar

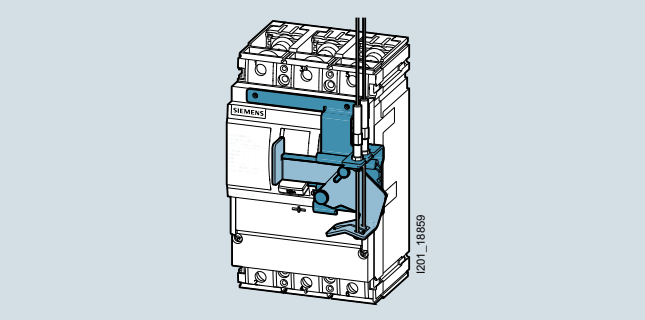
The sliding bar allows between two and three 3VA molded case circuit breakers of the same size to be mutually interlocked by means of a sliding bar.

With this device, the sliding bar is moved to block the handle of the interlocked molded case circuit breaker. For this reason, a molded case circuit breaker is always locked in the safe OFF position, while the released circuit breaker can still be operated.




Handle interlock using a Bowden cable

With the front Bowden cable interlock, it is possible to implement a mutual interlock between two or three molded case circuit breakers of different sizes. The front Bowden cable interlock operates according to the blocking principle. In order to implement this system, modules for the Bowden cable interlock must be mounted on the molded case circuit breakers to be included in the interlock arrangement. Each of these modules is equipped with a slide which blocks or releases operation of the handle.




Interlocking with cylinder locks

Using the cylinder lock (type Ronis), it is not only possible to lock a molded case circuit breaker, but also to create an interlock between an optional number of molded case circuit breakers of different sizes. To implement an interlocking application using cylinder locks, the adapter kit with the cylinder lock (type Ronis) must be fitted in the right-hand accessories compartment of each molded case circuit breaker to be included in the interlock arrangement and all breakers must be locked in the OFF position. In order to ensure reliable functioning of the interlock, only one key may be used for the entire interlock application! All other keys must be kept or locked away in a safe place. This one key must be used as the release instrument for only one molded case circuit breaker at a time! To release or operate a molded case circuit breaker, the cylinder lock must be turned to the "Unlocked" position with this one particular key. Only then can the handle of the circuit breaker be moved to the ON position. When the cylinder lock is in the "Unlocked" position, the key cannot be removed and must be left in the lock.

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To implement an interlocking application involving multiple molded case circuit breakers, the following two components must be ordered for each circuit breaker:

- Cylinder lock (type Ronis) with identical key number
- Interlock adapter kit for mounting the cylinder lock in the accessories compartment




Interlocking using an interlocking module in the rotary operator

In addition to the interlocking options described above, it is also possible to mutually interlock molded case circuit breakers with rotary operators of different sizes. This type of interlock can be employed with door mounted rotary operators, side wall mounted rotary operators, front operators and rotary operators with shaft stub or combinations thereof.

For this purpose, a rotary operator interlock module must be fitted in each individual rotary operator of the molded case circuit breakers to be included in the interlock arrangement. The interlocking modules are interconnected by means of Bowden cables in a similar manner to the handle interlock.

Rear interlock

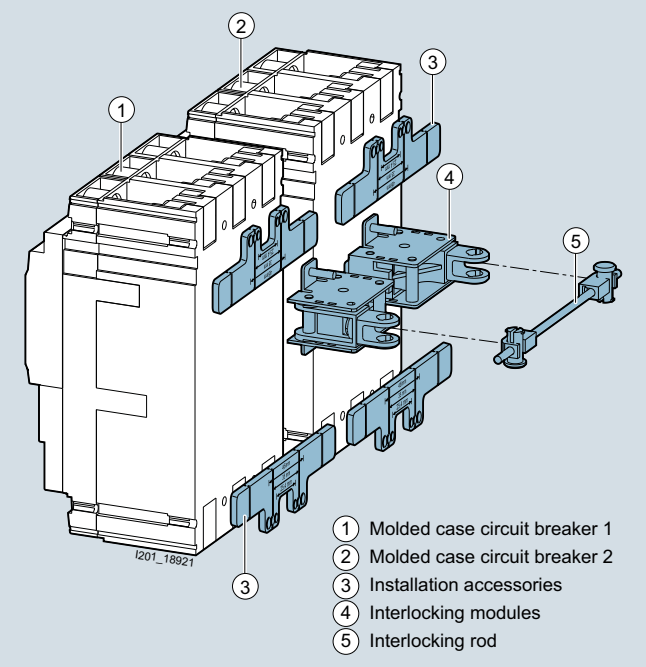
The rear interlock system allows implementation of an interlock without restricting the number of accessories which can be installed at the front of the 3VA molded case circuit breaker. Using the rear interlock, it is possible to create an interlock between two molded case circuit breakers of different sizes based on the blocking principle. When one molded case circuit breaker closes, the other circuit breaker is prevented from closing by a tappet which engages in the breaker mechanism directly from the rear panel of the molded case circuit breaker.

This system requires the installation of two interlocking modules which are mounted behind the molded case circuit breakers and behind the mounting frame of the cubicle. The two interlocking modules are interconnected by means of the interlocking rod.

A mounting plate comprising a plate and two DIN rails is available as an accessory to assist installation.

Rear interlock for plug-in or draw-out units

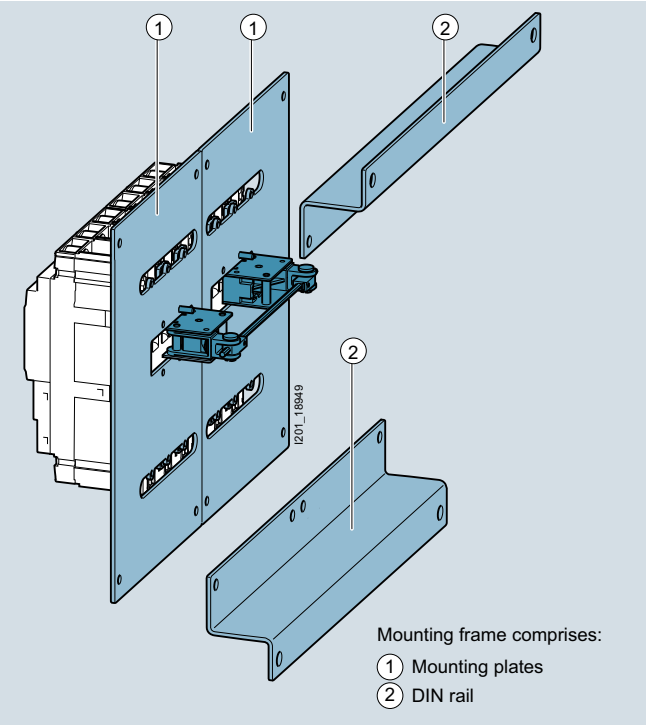
In order to install a rear interlock for plug-in or draw-out versions of the molded case circuit breakers, the tappet needs to be lengthened. The rear interlock for plug-in or draw-out versions is offered as a complete kit.




Rear interlock without mounting frame

## Benefits

- Broad range of applications thanks to flexibility of interlocking technology
- Locking technology ensures safe locking of molded case circuit breakers, e.g. for maintenance purposes
- No restriction to use of internal accessories or to scope of accessories installed at the front of the molded case circuit breaker (when a rear interlock is deployed)
- Molded case circuit breakers of different sizes can be mutually interlocked.



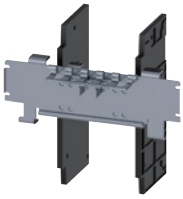
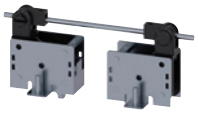
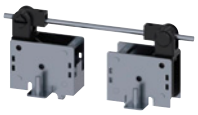
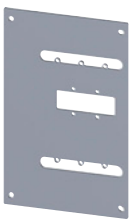

Rear interlock with mounting frame

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2

## Selection and ordering data

| | Version | For molded case circuit breakers/frame size | | | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3VA1 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | | | | | | |
| **Accessories for locking and interlocking** | | | | | | | | | | | |
|  3VA9167-0LF10 | **Adapter kit for mounting the cylinder lock (type Ronis) in the accessories compartment of the molded case circuit breaker**<br>Comprising 2 cylinder lock casings (one for locking and one for interlocking) and the appropriate mounting module | | | | | | | | | | |
| | Notes | ✓ | -- | -- | -- | | 3VA9157-0LF10 | | 1 | 1 unit | 1CB |
| | • To implement an interlock or a lock: select suitable cylinder lock(s)<br>• For an interlock: select the same cylinder lock number | -- | ✓ | -- | -- | | 3VA9257-0LF10 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9167-0LF10 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9367-0LF10 | | 1 | 1 unit | 1CB |
|  3VA9980-0VL10 | **Cylinder lock (type Ronis)**<br>• Includes a lock with 2 keys<br>• For locking or interlocking<br>• For installation in all rotary operators with shaft stub<br>• For mounting in the adapter kit for the accessories compartment | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| | • Key 1 (lock number 1) | ✓ | ✓ | ✓ | ✓ | | 3VA9980-0VL10 | | 1 | 1 unit | 1CB |
| | • Key 2 (lock number 2) | ✓ | ✓ | ✓ | ✓ | | 3VA9980-0VL20 | | 1 | 1 unit | 1CB |
| | • Key 3 (lock number 3) | ✓ | ✓ | ✓ | ✓ | | 3VA9980-0VL30 | | 1 | 1 unit | 1CB |
| | • Key 4 (lock number 4) | ✓ | ✓ | ✓ | ✓ | | 3VA9980-0VL40 | | 1 | 1 unit | 1CB |
|  3VA9168-0VF30 | **Sliding bar**<br>Complete kit for interlocking 2 circuit breakers | | | | | | | | | | |
| | Note | ✓ | -- | -- | -- | | 3VA9158-0VF30 | | 1 | 1 unit | 1CB |
| | The article number must be ordered 2 x to implement an interlock between 3 breakers of the same size. | -- | ✓ | -- | -- | | 3VA9258-0VF30 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9168-0VF30 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9368-0VF30 | | 1 | 1 unit | 1CB |
|  3VA9167-0VF10 | **Module for handle interlock using a Bowden cable** | | | | | | | | | | |
| | Notes | ✓ | -- | -- | -- | | 3VA9157-0VF10 | | 1 | 1 unit | 1CB |
| | • A separate handle interlock module is required for each 3VA.<br>• A Bowden cable must be ordered separately. | -- | ✓ | -- | -- | | 3VA9257-0VF10 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9167-0VF10 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9367-0VF10 | | 1 | 1 unit | 1CB |
|  3VA9088-0VM10 | **Rear interlock with rod**<br>Complete kit | ✓ | ✓ | ✓ | ✓ | | 3VA9088-0VM10 | | 1 | 1 unit | 1CB |
| | Note | | | | | | | | | | |
| | Mounting frames are not included in scope of supply. | | | | | | | | | | |
|  3VA9088-0VM30 | **Rear interlock with rod**<br>Complete kit for plug-in/draw-out unit | ✓ | ✓ | ✓ | ✓ | | 3VA9088-0VM30 | | 1 | 1 unit | 1CB |
| | Note | | | | | | | | | | |
| | Mounting frames are not included in scope of supply. | | | | | | | | | | |
|  | **Mounting frame for rear interlock with rod**<br>The following are required for the complete mounting frame kit: | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| | • DIN rails | ✓ | ✓ | ✓ | ✓ | | 3VA9088-0VK10 | | 1 | 1 unit | 1CB |
| | • Mounting plates | ✓ | -- | -- | -- | | 3VA9158-0VK20 | | 1 | 1 unit | 1CB |
| | | -- | ✓ | -- | -- | | 3VA9258-0VK20 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9268-0VK20 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9468-0VK20 | | 1 | 1 unit | 1CB |
| | Note | | | | | | | | | | |
| | 2 mounting plates are required. They are screwed onto the DIN rail that can be ordered above. Different breakers can be mutually interlocked. | | | | | | | | | | |



* You can order this quantity or a multiple thereof.

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| | Version | For molded case circuit breakers/ frame size | | | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | | | | | | |
| **Accessories for locking and interlocking** | | | | | | | | | | | |
|  3VA9388-0LB10 | **Locking devices for toggle levers** | ✓ | ✓ | -- | -- | | 3VA9088-0LB10 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | ✓ | | 3VA9388-0LB10 | | 1 | 1 unit | 1CB |
|  3VA9980-0VC10 | **Bowden cable** | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| | • Length 0.6 m | | | | | | 3VA9980-0VC10 | | 1 | 1 unit | 1CB |
| | • Length 1.0 m | | | | | | 3VA9980-0VC20 | | 1 | 1 unit | 1CB |
| | • Length 1.5 m | | | | | | 3VA9980-0VC30 | | 1 | 1 unit | 1CB |

*** You can order this quantity or a multiple thereof.**

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## Selection and ordering data

| Version | For molded case circuit breakers/frame size 3VA1 100 A, 160 A | 3VA1 250 A | 3VA2 100 A 160 A, 250 A | 3VA2 400 A, 630 A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|
| **Escutcheon for door cutout** | | | | | | | | | | |
|  3VA9163-0SB10 **Escutcheon for door cutout for molded case circuit breaker** | | | | | | | | | | |
| Versions | | | | | | | | | | |
| • 3-pole, door cutout without ETU | ✓ | -- | -- | -- | | 3VA9053-0SB10 | | 1 | 1 unit | 1CB |
| | -- | ✓ | -- | -- | | 3VA9253-0SB10 | | 1 | 1 unit | 1CB |
| | -- | -- | ✓ | -- | | 3VA9163-0SB10 | | 1 | 1 unit | 1CB |
| | -- | -- | -- | ✓ | | 3VA9383-0SB10 | | 1 | 1 unit | 1CB |
| • 3-pole, door cutout with ETU | ✓ | -- | -- | -- | | 3VA9053-0SB20 | | 1 | 1 unit | 1CB |
| | -- | ✓ | -- | -- | | 3VA9253-0SB20 | | 1 | 1 unit | 1CB |
| | -- | -- | ✓ | -- | | 3VA9163-0SB20 | | 1 | 1 unit | 1CB |
| | -- | -- | -- | ✓ | | 3VA9363-0SB20 | | 1 | 1 unit | 1CB |
| • 4-pole, door cutout without ETU | ✓ | -- | -- | -- | | 3VA9054-0SB10 | | 1 | 1 unit | 1CB |
| | -- | ✓ | -- | -- | | 3VA9254-0SB10 | | 1 | 1 unit | 1CB |
| | -- | -- | ✓ | -- | | 3VA9164-0SB10 | | 1 | 1 unit | 1CB |
| | -- | -- | -- | ✓ | | 3VA9384-0SB10 | | 1 | 1 unit | 1CB |
| • 4-pole, door cutout with ETU | ✓ | -- | -- | -- | | 3VA9054-0SB20 | | 1 | 1 unit | 1CB |
| | -- | ✓ | -- | -- | | 3VA9254-0SB20 | | 1 | 1 unit | 1CB |
| | -- | -- | ✓ | -- | | 3VA9164-0SB20 | | 1 | 1 unit | 1CB |
| | -- | -- | -- | ✓ | | 3VA9364-0SB20 | | 1 | 1 unit | 1CB |
| **Escutcheon for MO320 motor operators** | ✓ | -- | -- | -- | | 3VA9053-0SB20 | | 1 | 1 unit | 1CB |
| | -- | ✓ | ✓ | -- | | 3VA9257-0SB30 | | 1 | 1 unit | 1CB |
| | -- | -- | -- | ✓ | | 3VA9387-0SB30 | | 1 | 1 unit | 1CB |
| **Masking frame for RCD320, RCD520 and RCD820 residual current protection device** | | | | | | | | | | |
| Versions | | | | | | | | | | |
| • 3-pole | ✓ | -- | -- | -- | | 3VA9053-0SB10 | | 1 | 1 unit | 1CB |
| | -- | ✓ | ✓ | -- | | 3VA9253-0SB10 | | 1 | 1 unit | 1CB |
| | -- | -- | -- | ✓ | | 3VA9303-0SB40 | | 1 | 1 unit | 1CB |
| • 4-pole | ✓ | -- | -- | -- | | 3VA9054-0SB10 | | 1 | 1 unit | 1CB |
| | -- | ✓ | ✓ | -- | | 3VA9254-0SB10 | | 1 | 1 unit | 1CB |
| | -- | -- | -- | ✓ | | 3VA9304-0SB40 | | 1 | 1 unit | 1CB |
| **Escutcheon for front mounted rotary operator** | ✓ | -- | -- | -- | | 3VA9053-0SB10 | | 1 | 1 unit | 1CB |
| | -- | ✓ | -- | -- | | 3VA9253-0SB10 | | 1 | 1 unit | 1CB |
| | -- | -- | ✓ | -- | | 3VA9163-0SB10 | | 1 | 1 unit | 1CB |
| | -- | -- | -- | ✓ | | 3VA9383-0SB10 | | 1 | 1 unit | 1CB |
| **Escutcheon for door feedthrough** | -- | ✓ | ✓ | -- | | 3VA9253-0SB20 | | 1 | 1 unit | 1CB |
| | -- | -- | -- | ✓ | | 3VA9353-0SB20 | | 1 | 1 unit | 1CB |
|  3VA9087-0SX10 **Labeling plate for escutcheon** | | | | | | 3VA9087-0SX10 | | 1 | 10 units | 1CB |



* You can order this quantity or a multiple thereof.

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| | Version | For molded case circuit breakers/frame size | | | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 3VA1 100 A 160 A | 3VA1 250 A | 3VA2 100 A 160 A 250 A | 3VA2 400 A 630 A | | | | | | |
| **Adapter for DIN rails for 3VA1 molded case circuit breakers** | | | | | | | | | | | |
|  3VA9187-0SH10 | **Adapter for DIN rails for 3VA1 molded case circuit breakers** | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| | • 1-pole[1)] | ✓ | -- | -- | -- | | 3VA9181-0SH10 | | 1 | 1 unit | 1CB |
| | • 2-pole | ✓ | -- | -- | -- | | 3VA9182-0SH10 | | 1 | 1 unit | 1CB |
| | • 3- and 4-pole | ✓ | -- | -- | -- | | 3VA9187-0SH10 | | 1 | 1 unit | 1CB |
| | • 3 and 4-pole in conjunction with RCD310 or RCD510 | ✓ | -- | -- | -- | | 3VA9187-0SH20 | | 1 | 1 unit | 1CB |
| **Adapter for 60 mm busbar system (8US)** | | | | | | | | | | | |
|  | Busbar adapter systems with 40 mm or 60 mm busbar center-to-center spacing with components for busbar runs, adapters and switching device holders for individual equipment possibilities, devices with an integrated adapter, as well as accessories and flat copper profiles. Observe the short-circuit strength of the busbar system. Short-circuit strength greater than 50 kA on request.<br>For more information, see chapter "Busbar Systems". | | | | | | | | | | |
| **Mounting screw kit** | | | | | | | | | | | |
|  3VA9111-0SS10 | **Mounting screw kit** | | | | | | | | | | |
| | Versions | | | | | | | | | | |
| | • For fixed-mounted molded case circuit breakers | | | | | | | | | | |
| | - 1-pole | ✓ | -- | -- | -- | | 3VA9111-0SS10 | | 1 | 1 unit | 1CB |
| | - 2 and 3-pole (apart from 125 A/160 A with 55 kA and 70 kA) | ✓ | ✓ | -- | -- | | 3VA9116-0SS10 | | 1 | 1 unit | 1CB |
| | - 3-pole (125 A/160 A with 55 kA and 70 kA) and 4-pole | ✓ | ✓ | -- | -- | | 3VA9114-0SS10 | | 1 | 1 unit | 1CB |
| | - 3-pole | -- | -- | ✓ | -- | | 3VA9126-0SS10 | | 1 | 1 unit | 1CB |
| | - 4-pole | -- | -- | ✓ | -- | | 3VA9124-0SS10 | | 1 | 1 unit | 1CB |
| | - 3- and 4-pole | -- | -- | -- | ✓ | | 3VA9328-0SS10 | | 1 | 1 unit | 1CB |
| | • For plug-in technology | ✓ | ✓ | -- | -- | | 3VA9114-0SS10 | | 1 | 1 unit | 1CB |
| | • For plug-in and draw-out units | -- | ✓ | -- | -- | | 3VA9114-0SS10 | | 1 | 1 unit | 1CB |
| | | -- | -- | ✓ | -- | | 3VA9124-0SS10 | | 1 | 1 unit | 1CB |
| | | -- | -- | -- | ✓ | | 3VA9328-0SS10 | | 1 | 1 unit | 1CB |

1) For 3VA1 molded case circuit breakers, 160 A 1-pole up to 25 kA

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## Overview

| Devices | | Page | Applications/ Individual components | Standards | Used in | | |
|---|---|---|---|---|---|---|---|
| | | | | | Non-residential buildings | Residential buildings | Industry |
|  | **3VL molded case circuit breakers for line protection**<br><br>**3VL molded case circuit breakers for generator protection** | 2/126 ... 2/141, 2/150 ... 2/167 | The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads.<br><br>The overload and short-circuit releases can be used for optimized protection of generators. | IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2. | ✓ | ✓ | ✓ |
|  | **3VL molded case circuit breakers for motor protection**<br>Are you IE3 ready? | 2/142 ... 2/145 | Circuit breakers for motor protection are specifically designed for the characteristic curve of the motor, and have additional functions such as phase failure detection and adjustable trip class. | IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.<br>IE3 ready | ✓ | ✓ | ✓ |
|  | **3VL molded case circuit breakers for starter protection**<br>Are you IE3 ready? | 2/146, 2/147 | Starter combinations consist of: Motor starter protector + contactor + overload relay. The motor starter protector provides short-circuit protection and the isolating function. The task of the contactor is the operational switching of the feeder. The overload relay provides overload protection, which is specifically designed for the motor. | IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.<br>IE3 ready | ✓ | ✓ | ✓ |
|  | **3VL non-automatic circuit breakers, molded case** | 2/146, 2/147, 2/168, 2/169 | These circuit breakers are used as feeder circuit breakers, main control switches or disconnectors without overload protection. They have fixed short-circuit releases. | IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.<br>Isolating features according to IEC 60947-2 and EN 60947-2. | ✓ | ✓ | ✓ |
|  | **Auxiliary switches and auxiliary releases for 3VL molded case circuit breakers** | 2/175, 2/176 | Auxiliary switches, alarm switches, undervoltage releases and shunt releases | As for circuit breakers | ✓ | ✓ | ✓ |
|  | **Operating mechanisms** | 2/178 ... 2/185 | The manual operating mechanisms are available in two versions:<br>• Front-operated rotary operating mechanism,<br>• Door-coupling rotary operating mechanism<br>In the case of the motorized operating mechanisms there are also two versions:<br>• MO for standard applications<br>• SEO for network synchronization tasks | As for circuit breakers | ✓ | ✓ | ✓ |
|  | **Plug-in versions/ withdrawable versions** | 2/186 ... 2/191 | Assembly in plug-in and withdrawable versions allows the 3VL molded case circuit breaker to be replaced quickly without accessing the terminals. | As for circuit breakers | ✓ | ✓ | ✓ |

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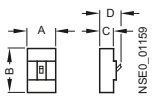
| Devices | | Page | Applications/ Individual components | Standards | Used in | | |
|---|---|---|---|---|---|---|---|
| | | | | | Non-residential buildings | Residential buildings | Industry |
|  | **RCD modules** | 2/192 | Protection of plant and personnel against damage or injury caused by residual currents and insulation faults. | IEC EN 60947-2 (Annex B) | ✓ | ✓ | ✓ |
|  | **Residual current devices (MRCD)** | Ch. 12 | Modular residual current devices (MRCD) monitor residual currents in electrical systems and trip the molded case circuit breaker via an auxiliary release after an adjustable advance warning if the residual current exceeds a defined value. | IEC EN 60947-2 (Annex M) | ✓ | ✓ | ✓ |
|  | **Connection parts for fixed-mounted circuit breakers** | 2/193 ... 2/198 | Front connecting bars, rear terminals, box terminals, circular conductor terminals, multiple feed-in terminals, auxiliary conductor terminals, terminal plates, connections with screw terminals, terminal covers for circuit breakers, phase barriers for circuit breakers | As for circuit breakers | ✓ | ✓ | ✓ |
|  | **Interlocks** | 2/199 ... 2/204 | Locking devices for toggle levers, rear interlocking modules, interlocking modules for Bowden wire interlocking | As for circuit breakers | ✓ | ✓ | ✓ |
|   | **3KC ATC5300 and NEW ATC3100 transfer control devices** | Ch. 12 | The 3KC ATC5300 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 | ✓ | ✓ | ✓ |
|  | **40 mm busbar systems and 60 mm busbar systems** | Ch. 10 | Busbar adapters | As for circuit breakers | ✓ | ✓ | ✓ |
|  | **Accessories for communication** | 2/207 | Data transmission through COM20, COM21:<br>COM20 (PROFIBUS) for Electronic Trip Units with communication function,<br>COM21 (MODBUS) for Electronic Trip Units with communication function,<br>powerconfig parameterization software | As for circuit breakers | ✓ | ✓ | ✓ |
| | **Further accessories** | 2/208 ... 2/211 | Masking frames (cover frames) for door cutouts, to increase degree of protection | As for circuit breakers | ✓ | ✓ | ✓ |

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| Type | | VL160X/3VL1 | | VL160/3VL2 | | VL250/3VL3 | | VL400/3VL4 | |
|---|---|---|---|---|---|---|---|---|---|
| **Molded case circuit breakers** | | | | | | | | | |
| **3VL molded case circuit breakers up to 1600 A** | | | | | | | | | |
| Rated current $I_n$ at 50 °C ambient temperature | A | 16 ... 160 | | 50 ... 160 | | 200 ... 250 | | 200 ... 400 | |
| Number of poles | | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 |
| Rated operational voltage $U_e$ | | | | | | | | | |
| 50/60 Hz AC | V | 690 | 690 | 690 | 690 | 690 | 690 | 690 | 690 |
| DC[1] | V | 500 | 500[2] | 600 | 600 | 600 | 600 | 600 | 600 |
| **Trip Units** | | | | | | | | | |
| Thermal-magnetic | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Electronic LCD ETU/ETU | | -- | -- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| PROFIBUS module COM20 | | -- | -- | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Dimensions | | | | | | | | | |
|  A | mm | 105 | 139 | 105 | 139 | 105 | 139 | 139 | 183 |
| B | mm | 157 | 157 | 175 | 175 | 175 | 175 | 279 | 279 |
| C | mm | 81 | 81 | 81 | 81 | 81 | 81 | 102 | 102 |
| D | mm | 107 | 107 | 107 | 107 | 107 | 107 | 138 | 138 |
| **Breaking capacity $I_{cu}/I_{cs}$ RMS value acc. to IEC 60947-2** | | | | | | | | | |
| Standard breaking capacity N[3] (N) | | | | | | | | | |
| Up to 240 V AC | kA | 65/65 | | 65/65 | | 65/65 | | 65/65 | |
| Up to 415 V AC | kA | 55/55 | | 55/55 | | 55/55 | | 55/55 | |
| Up to 440 V AC | kA | 25/20 | | 25/20 | | 25/20 | | 35/26 | |
| Up to 500/525 V AC | kA | 18/14 | | 25/20 | | 25/20 | | 25/20 | |
| Up to 690 V AC | kA | 8/4[4] | | 12/6 | | 12/6 | | 15/8 | |
| Up to 250 V DC[5] | kA | 30/30 | | 32/32 | | 32/32 | | 32/32 | |
| Up to 500 V DC[5] | kA | -- | | -- | | -- | | -- | |
| Up to 600 V DC[5] | kA | -- | | -- | | -- | | -- | |
| NEMA breaking capacity[6] | | | | | | | | | |
| Up to 480 V AC | kA | 25 | | 25 | | 25 | | 35 | |
| Up to 600 V AC | kA | 8[4] | | 12 | | 12 | | 20 | |
| High breaking capacity H[3] (H) | | | | | | | | | |
| Up to 240 V AC | kA | 100/75 | | 100/75 | | 100/75 | | 100/75 | |
| Up to 415 V AC | kA | 70/70 | | 70/70 | | 70/70 | | 70/70 | |
| Up to 440 V AC | kA | 42/32 | | 50/38 | | 50/38 | | 50/38 | |
| Up to 500/525 V AC | kA | 30/23 | | 40/30 | | 40/30 | | 40/30 | |
| Up to 690 V AC | kA | 12/6[4] | | 12/6 | | 12/6 | | 15/8 | |
| Up to 250 V DC[5] | kA | 30/30 | | 32/32 | | 32/32 | | 32/32 | |
| Up to 500 V DC[5] | kA | 30/30 | | 32/32 | | 32/32 | | 32/32 | |
| Up to 600 V DC[5] | kA | -- | | -- | | -- | | -- | |
| NEMA breaking capacity[6] | | | | | | | | | |
| Up to 480 V AC | kA | 42 | | 50 | | 50 | | 50 | |
| Up to 600 V AC | kA | 12[4] | | 12 | | 12 | | 20 | |
| Very high breaking capacity L[3] (L) | | | | | | | | | |
| Up to 240 V AC | kA | -- | | 200/150 | | 200/150 | | 200/150 | |
| Up to 415 V AC | kA | -- | | 100/75 | | 100/75 | | 100/75 | |
| Up to 440 V AC | kA | -- | | 75/50 | | 75/50 | | 75/50 | |
| Up to 500/525 V AC | kA | -- | | 50/38 | | 50/38 | | 50/38 | |
| Up to 690 V AC | kA | -- | | 12/6 | | 12/6 | | 15/8 | |
| Up to 250 V DC[5] | kA | -- | | 32/32 | | 32/32 | | 32/32 | |
| Up to 500 V DC[5] | kA | -- | | 32/32 | | 32/32 | | 32/32 | |
| Up to 600 V DC[5] | kA | -- | | 32/32 | | 32/32 | | 32/32 | |
| NEMA breaking capacity[6] | | | | | | | | | |
| Up to 480 V AC | kA | -- | | 75 | | 75 | | 75 | |
| Up to 600 V AC | kA | -- | | 12 | | 12 | | 20 | |

✓ Available
-- Not available

For 3VL molded case circuit breakers according to UL 489, see page 2/214 or see Catalog LV 16.

[1] Rated DC voltage applies only for circuit breakers with thermal-magnetic trip unit.

[2] For PV applications up to $U_{oc}$ = 1000 V DC.

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VL630/3VL5



VL800/3VL6



VL1250/3VL7



VL1600/3VL8

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **3VL molded case circuit breakers up to 1600 A** | | | | | | | |
| 315 ... 630 | | 800 | | 1000 ... 1250 | | 1600 | |
| 3 | 4 | 3 | 4 | 3 | 4 | 3 | 4 |
| 690<br>600 | 690<br>600 | 690<br>-- | 690<br>-- | 690<br>-- | 690<br>-- | 690<br>-- | 690<br>-- |
| ✓<br>✓<br>✓ | ✓<br>✓<br>✓ | --<br>✓<br>✓ | --<br>✓<br>✓ | --<br>✓<br>✓ | --<br>✓<br>✓ | --<br>✓<br>✓ | --<br>✓<br>✓ |
| 190<br>279<br>102<br>138 | 253<br>279<br>102<br>138 | 190<br>406<br>114<br>151 | 253<br>406<br>114<br>151 | 229<br>406<br>152<br>207 | 305<br>406<br>152<br>207 | 229<br>406<br>152<br>207 | 305<br>406<br>152<br>207 |
| | | | | | | | |
| 65/65<br>55/55<br>35/26<br>25/20<br>20/10 | | 65/65<br>55/55<br>35/26<br>25/20<br>20/10 | | 65/35<br>55/28<br>35/26<br>25/20<br>20/10 | | 65/35<br>55/28<br>35/26<br>25/20<br>20/10 | |
| 32/32<br>--<br>-- | | --<br>--<br>-- | | --<br>--<br>-- | | --<br>--<br>-- | |
| 25<br>20 | | 25<br>20 | | 25<br>20 | | 25<br>20 | |
| | | | | | | | |
| 100/75<br>70/70<br>50/38<br>40/30<br>20/10 | | 100/75<br>70/70<br>50/38<br>40/30<br>20/10 | | 100/50<br>70/35<br>50/38<br>40/30<br>30/15 | | 100/50<br>70/35<br>50/38<br>40/30<br>30/15 | |
| 32/32<br>32/32<br>-- | | --<br>--<br>-- | | --<br>--<br>-- | | --<br>--<br>-- | |
| 50<br>30 | | 50<br>30 | | 50<br>30 | | 50<br>30 | |
| | | | | | | | |
| 200/150<br>100/75<br>75/50<br>50/38<br>20/10 | | 200/150<br>100/75<br>75/50<br>50/38<br>20/10 | | 200/100<br>100/50<br>75/50<br>50/38<br>35/17 | | 200/100<br>100/50<br>75/50<br>50/38<br>35/17 | |
| 32/32<br>32/32<br>32/32 | | --<br>--<br>-- | | --<br>--<br>-- | | --<br>--<br>-- | |
| 65<br>35 | | 65<br>35 | | 65<br>35 | | 65<br>35 | |

[3] At 240 V AC, 415 V AC, 525 V AC and 690 V AC max. 5 % overvoltage, at 440 V AC and 500 V AC max. 10 % overvoltage, at 250/500/600 V DC max. 5 % overvoltage.

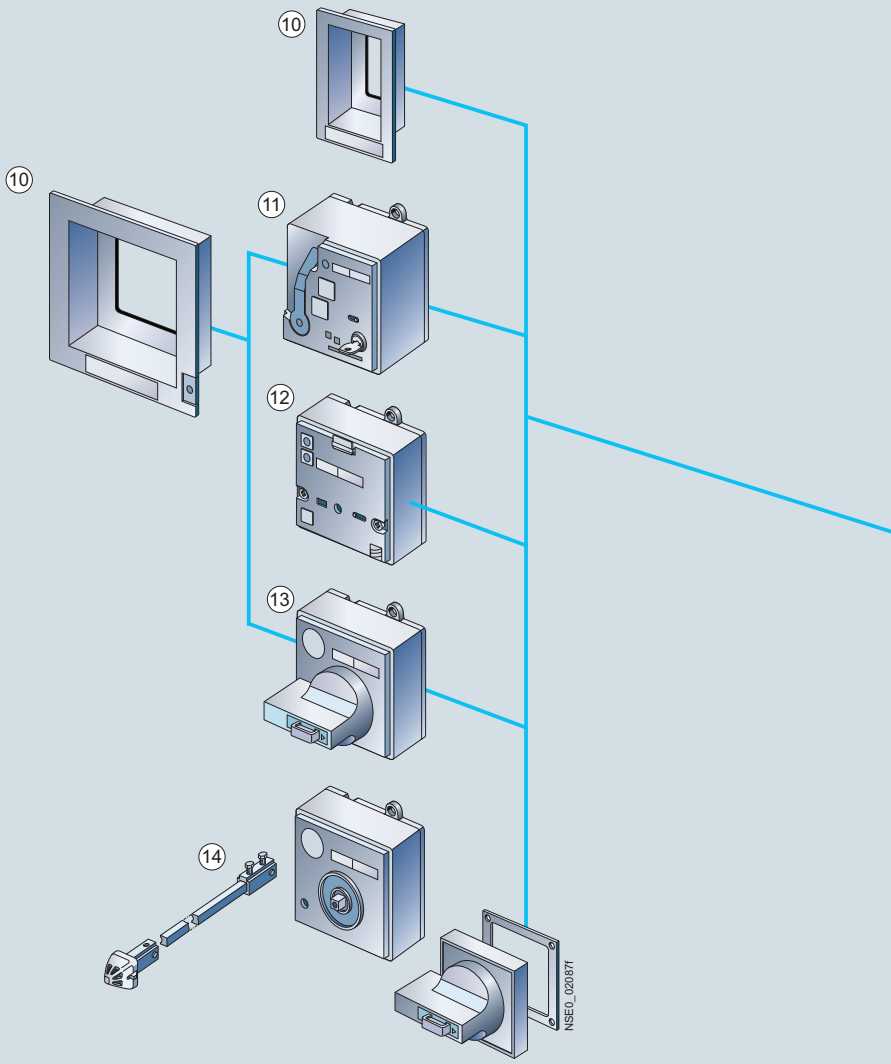
[4] Rated current $I_n \geq 25$ A.

[5] The maximum permitted DC voltage for each conducting path needs to be taken into account for DC switching applications; see Technical Information at www.siemens.com/lowvoltage/product-support; time constant $t = 15$ ms.

[6] The NEMA breaking capacity can be found on the rating plate of each IEC circuit breaker.

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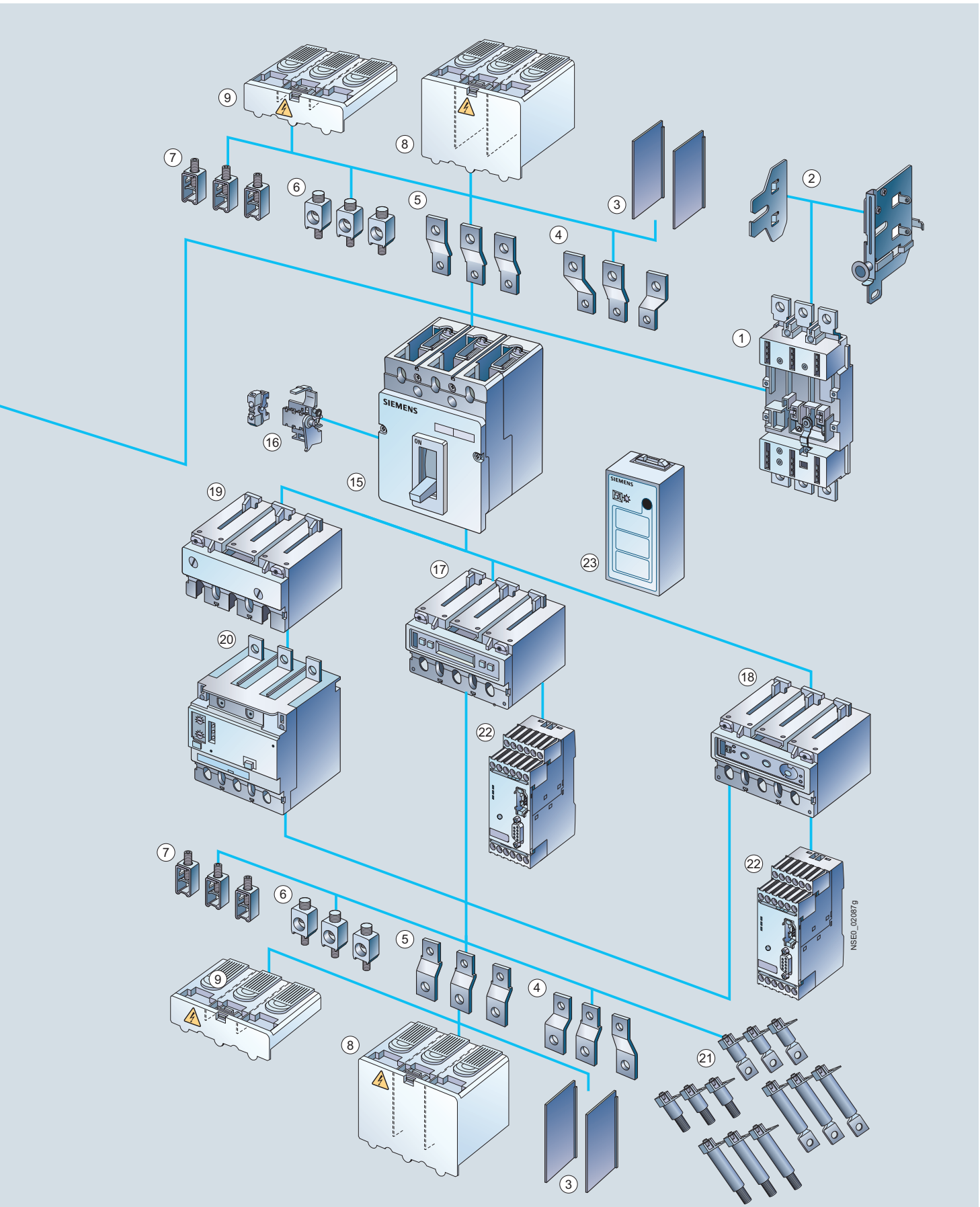





① Withdrawable/plug-in bases (pages 2/186 to 2/191)
② Side walls of withdrawable unit (pages 2/186 to 2/191)
③ Phase barriers (pages 2/193 to 2/198)
④ Flared front busbar connecting bars (pages 2/193 to 2/198)
⑤ Straight connecting bars (pages 2/193 to 2/198)
⑥ Circular conductor terminals for Al/Cu (pages 2/193 to 2/195)
⑦ Box terminals for Cu (pages 2/193 to 2/198)
⑧ Extended connection covers (terminal covers) (pages 2/193 to 2/198)
⑨ Standard connection covers (pages 2/193 to 2/198)
⑩ Masking frames/cover frames for door cutout (pages 2/208 to 2/211)
⑪ Motorized operating mechanisms with stored energy mechanism (SEO) (page 2/182)
⑫ Motorized operating mechanism (MO) (page 2/182)
⑬ Front-operated rotary operating mechanisms (pages 2/178 to 2/181)
⑭ Door-coupling rotary operating mechanisms (pages 2/178 to 2/181)
⑮ 3VL molded case circuit breakers (pages 2/126 to 2/169)
⑯ Internal accessories (pages 2/173, 2/174, 2/175 to 2/177)
⑰ Electronic Trip Units LCD ETU (pages 2/136, 2/140, 2/144, 2/160 and 2/162)
⑱ Electronic Trip Units with communication function (pages 2/128 to 2/144 and 2/156 to 2/166)
⑲ Thermal/magnetic overcurrent releases (pages 2/126 to 2/128, 2/146, 2/150 to 2/154, 2/168)
⑳ RCD modules (page 2/192)
㉑ Rear terminals – flat and round (pages 2/193 to 2/198)
㉒ COM20/21 communication modules to the PROFIBUS DP/MODBUS (page 2/207)
㉓ Battery power supplies with test function for Electronic Trip Units (pages 2/200 to 2/204)

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2

## Benefits

- The compact design of the 3VL molded case circuit breakers coupled with excellent characteristics fulfills the high demands of today's electrical distribution systems.
- These circuit breakers offer a broad product range, improved technology, space savings and easy operation.
- They are available both in thermal-magnetic (16 A to 630 A) and in electronic versions (63 A to 1,600 A).

### *Communication*

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

- 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 assigning power to cost centers.

Communication:

- For molded case circuit breakers with communication function, see pages 2/128 to 2/144, 2/156 to 2/144.
- For communication accessories, see page 2/207.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

## Application

The different versions of 3VL molded case circuit breakers are suitable for the following applications:

- Incoming and outgoing circuit breakers in distribution systems
- Switching and protection devices for motors, transformers and capacitors
- Disconnecting means with features for stopping and switching off in an emergency (main disconnecting means and EMERGENCY-STOP switches) in conjunction with lockable rotary operating mechanisms and terminal covers.

The 3VL molded case circuit breakers are available in the following versions:

1. For line protection (in 3- and 4-pole versions)
   The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads.
2. For motor protection (in 3-pole version)
   The overload and short-circuit releases are designed for optimized protection and direct-on-line starting of induction squirrel-cage motors. The circuit breakers for motor protection are susceptible to phase failure and feature an adjustable trip class. The Electronic Trip Units operate with a microprocessor.
3. For starter combinations (in 3-pole version)
   These circuit breakers are used both for short-circuit protection as well as for isolating functions, which may be required in starter combinations consisting of motor starter protectors, overload relays and motor contactors. These circuit breakers exclusively feature adjustable, instantaneous short-circuit releases.
4. As non-automatic air circuit breakers (in 3- and 4-pole versions)
   These circuit breakers can be used as feeder circuit breakers, main control switches or non-automatic circuit breakers without overload protection. They incorporate an integrated short-circuit self-protection system, eliminating the need for back-up fuses.

### *Breaking capacity*

| | |
|---|---|
| (N) | Circuit breakers with standard breaking capacity N ($I_{cu}$ up to 55 kA at 415 V) |
| (H) | Circuit breakers with high breaking capacity H ($I_{cu}$ up to 70 kA at 415 V) |
| (L) | Circuit breakers with very high breaking capacity L ($I_{cu}$ up to 100 kA at 415 V) |
| | These breaking capacities are indicated in the corresponding tables by the symbols shown on orange backgrounds. |

### *Standards and specifications*

3VL molded case circuit breakers comply with:

IEC 60947-1, EN 60947-1,
VDE 0660-100,
IEC 60947-2, EN 60947-2,
VDE 0660-101.
Isolating features according IEC 60947-2, EN 60947-2.

Disconnecting means (main disconnecting means) according to EN 60204 (VDE 0113).
The 3VL molded case circuit breakers comply in addition with requirements for "disconnecting means with features for stopping and switching off in an emergency" (EMERGENCY-STOP switches) in conjunction with lockable rotary operating mechanisms (red-yellow) and terminal covers.

Please contact Siemens for details of other standards.

The Electronic Trip Units of the circuit breakers for motor protection also fulfill IEC 60947-4-1, VDE 0660-102.

VL160X to VL400 circuit breakers can be equipped with a 3VL RCD module. They then comply with IEC 60947-2 Annex B.

The 3VL RCD module complies with IEC 61000-4-2 to IEC 61000-4-6, IEC 61000-4-11 and EN 55011, Class B (equivalent to CISPR 11) with regard to electromagnetic compatibility.

### *Operating conditions*

The 3VL molded case circuit breakers are designed for operation in enclosed areas.

Suitable enclosures must be provided for operation in areas with severe ambient conditions (such as dust, caustic vapors, hazardous gases).

The incoming and outgoing terminals for the circuit breaker can be freely selected. The electrical data remains unaffected.

### *IE3 ready*

As from January 2015, the energy-efficiency class IE3 will be mandatory, with a few exceptions only, for three-phase asynchronous motors. This will have an effect on motors, low-voltage power distribution and electrical installation technology, as well as industrial controls.

For use of 3VL molded case circuit breakers in conjunction with highly energy-efficient IE3 motors, please observe the information on dimensioning and configuring, see "Configuration Manual for SIRIUS Controls with IE3 Motors", at http://support.automation.siemens.com/WW/view/en/94770820.

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### *RCD modules*

The RCD module is designed for retrofitting to the circuit breaker. It can also be retrofitted by the customer.

The combination of 3VL molded case circuit breaker and RCD module can be fed from the top or bottom.

All 3VL molded case circuit breakers with RCD modules are available with auxiliary switches, alarm switches, undervoltage and shunt releases.

Protection of plant and equipment against overload or damage by ground faults (ground-fault protection).

The RCD module trips the circuit breaker through vectorial summation current formation for all phase currents if the vectorial sum of the currents in the poles (= the ground fault current) overshoots the pre-set response and delay time values.
AC currents and pulsating DC currents are measured (CBR, design A according to EN 60947-2).

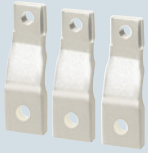
### *Main connections, basic equipment and options*



Box terminal
(for copper cables or solid/ flexible busbars)



Connection with screw terminal (available with direct cable lug connection on VL160X, VL160, VL250, VL400)



Connection to front busbar connecting bars (screw terminal required)



Circular conductor terminals multiple feed-in terminal (for Al/Cu terminal)

Main connections (for conductor cross-sections, see below)

| Circuit breakers | Connection overview and further options | | | | |
|---|---|---|---|---|---|
| | Box terminals | Screw terminals with metric thread for flat connection | Circular conductor terminal/multiple feed-in terminals | Rear terminals | Front-accessible connecting bars |
| VL160X | ☐ | ☐ | × | × | × |
| VL160 | ☐ | ☐ | × | × | × |
| VL250 | ☐ | ☐ | × | × | × |
| VL400 | × | ○ | ×[2)3)] | × | × |
| VL630 | ×[1)] | ○ | ×[2)] | × | × |
| VL800 | -- | ○ | ×[2)] | × | × |
| VL1250 | -- | ○ | ×[2)] | × | × |
| VL1600 | -- | × | -- | × | ○ |

○ Scope of supply
☐ Optional scope of supply
× Available
-- Not available

1) Connecting terminal plate for flexible busbar; not for 690 V AC/600 V DC.
2) Multiple feed-in terminal.
3) Circular conductor terminal also available.

### *Conductor cross-sections*

| Type | | | VL160X 3VL1 | VL160 3VL2 | VL250 3VL3 | VL400 3VL4 | VL630 3VL5 | VL800 3VL6 | VL1250 3VL7 | VL1600 3VL8 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Conductor cross-sections** | | | | | | | | | | |
| Box terminals[1)] | | | | | | | | | | |
| • Solid or stranded cable | Copper only | $mm^2$ | 2.5 ... 95 | 2.5 ... 95 | 25 ... 185 | 50 ... 300 | -- | -- | -- | -- |
| • Finely stranded with end sleeve | | $mm^2$ | 2.5 ... 50 | 2.5 ... 50 | 25 ... 120 | 50 ... 240 | -- | -- | -- | -- |
| • Flexible busbar | | mm | 12 × 10 | 12 × 10 | 17 × 10 | 25 × 10 | -- | -- | -- | -- |
| Connecting terminal plate for flexible busbar[2)] | | mm | -- | -- | -- | -- | 2 units 10 × 32 | -- | -- | -- |
| Circular conductor terminal for cable[1)] | | | | | | | | | | |
| • Solid or stranded cable | Cu or Al | $mm^2$ | 16 ... 70 | 16 ... 70 | 25 ... 185 | 50 ... 300 | -- | -- | -- | -- |
| - With terminal cover | Cu or Al | $mm^2$ | 16 ... 150 | 16 ... 150 | 120 ... 240 | -- | -- | -- | -- | -- |
| • Finely stranded with end sleeve | | $mm^2$ | 10 ... 50 | 10 ... 50 | 25 ... 120 | 50 ... 240 | -- | -- | -- | -- |
| Multiple feed-in terminal[1)] | | | | | | | | | | |
| • Solid or stranded cable | Cu or Al | $mm^2$ | -- | -- | -- | 2 units 50 ... 120 | 2 units 50 ... 240 | 3 units 50 ... 240 | 4 units 50 ... 240 | -- |
| - With terminal cover | Cu or Al | $mm^2$ | -- | -- | -- | 2 units 70 ... 300 | -- | -- | -- | -- |
| • Finely stranded with end sleeve | | $mm^2$ | -- | -- | -- | 2 units 50 ... 95 | 2 units 50 ... 185 | 3 units 50 ... 185 | 4 units 50 ... 185 | -- |
| • Direct connection of busbars | Cu or Al | mm | 17 × 7 | 22 × 7 | 24 × 7 | 32 × 10 | 40 × 10 | 2 × 40 × 10 | 2 × 50 × 10 | 3 × 60 × 10 |
| • Screw for connection with screw terminal | | | M6 | M6 | M8 | M8 | M6 | M8 | M8 | -- |
| **Conductor cross-sections for control circuits with terminal connection** | | | | | | | | | | |
| Screw terminals | | | | | | | | | | |
| • Solid | | $mm^2$ | 0.75 ... 1.5 | 0.75 ... 1.5 | 0.75 ... 1.5 | 0.75 ... 1.5 | 0.75 ... 1.5 | 0.75 ... 1.5 | 0.75 ... 1.5 | 0.75 ... 1.5 |
| • Finely stranded with end sleeve | | $mm^2$ | 0.75 ... 1.0 | 0.75 ... 1.0 | 0.75 ... 1.0 | 0.75 ... 1.0 | 0.75 ... 1.0 | 0.75 ... 1.0 | 0.75 ... 1.0 | 0.75 ... 1.0 |

For details, see Mounting Instructions.

1) Cross-sections according to IEC 60999.
2) Not for 690 V AC/600 V DC.

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## General data

### *VL160 to VL1600 Trip Units – Functional overview*



| Article No. supplement | Releases | Line protection | Line/generator protection | Motor protection | Starter protection | Non-automatic circuit breakers | Function | Setting options | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | L Overload protection | S[1] Short-circuit protection (short-time delayed) | | I[1] Short-circuit protection (instantaneous) | G Ground-fault protection | |
| | | | | | | | | $I_r = \times I_n$ | $I_{sd} = \times I_r$ | $t_{sd}$ [s] | $I_i = \times I_n$ | $I_g = \times I_n$ | $t_g$ [s] |
| DK | M | -- | -- | -- | ✓ | -- | I | -- | -- | -- | 7 ... 15 | -- | -- |
| DE | M | -- | -- | -- | -- | ✓ | I | -- | -- | -- | 8 ... 18 | -- | -- |
| EE | M | -- | -- | -- | -- | ✓ | I | -- | -- | -- | 8 ... 18 | -- | -- |
| DA | TM[2] | ✓ | -- | -- | -- | -- | LI | 1 | -- | -- | 9 ... 18[4] | -- | -- |
| DD | TM[2] | ✓ | -- | -- | -- | -- | LI | 0.8 ... 1 | -- | -- | 9 ... 18[4] | -- | -- |
| DC | TM[2] | ✓ | -- | -- | -- | -- | LI | 0.8 ... 1 | -- | -- | 5 ... 10 | -- | -- |
| EH | TM[2] | ✓ | -- | -- | -- | -- | LI | 1 | -- | -- | 9 ... 18[4] | -- | -- |
| EJ | TM[2] | ✓ | -- | -- | -- | -- | LI | 0.8 ... 1 | -- | -- | 5 ... 10 | -- | -- |
| EA/EL | TM[2] | ✓ | -- | -- | -- | -- | LIN | 1 | -- | -- | 9 ... 18[4] | -- | -- |
| EC | TM[2] | ✓ | -- | -- | -- | -- | LIN | 0.8 ... 1 | -- | -- | 5 ... 10 | -- | -- |
| EM | TM[2] | ✓ | -- | -- | -- | -- | LIN | 0.8 ... 1 | -- | -- | 5 ... 10 | -- | -- |
| SP | ETU10M[3] | -- | -- | ✓ | -- | -- | LI | 0.4 ... 1 | -- | -- | 1.25 ... 11 | -- | -- |
| MP | ETU10M[3] | -- | -- | ✓ | -- | -- | LI | 0.4 ... 1 | -- | -- | 1.25 ... 11 | -- | -- |
| SB | ETU10 | ✓ | -- | -- | -- | -- | LI | 0.4 ... 1 | -- | -- | 1.25 ... 11 | -- | -- |
| MB | ETU10 | ✓ | -- | -- | -- | -- | LI | 0.4 ... 1 | -- | -- | 1.25 ... 11 | -- | -- |
| LB | ETU10 | ✓ | -- | -- | -- | -- | LI | 0.4 ... 1 | -- | -- | 1.25 ... 11 | -- | -- |
| TA | ETU10 | ✓ | -- | -- | -- | -- | LIN | 0.4 ... 1 | -- | -- | 1.25 ... 11 | -- | -- |
| NA | ETU10 | ✓ | -- | -- | -- | -- | LIN | 0.4 ... 1 | -- | -- | 1.25 ... 11 | -- | -- |
| LA | ETU10 | ✓ | -- | -- | -- | -- | LIN | 0.4 ... 1 | -- | -- | 1.25 ... 11 | -- | -- |
| TB | ETU10 | ✓ | -- | -- | -- | -- | LI | 0.4 ... 1 | -- | -- | 1.25 ... 11 | -- | -- |
| NB | ETU10 | ✓ | -- | -- | -- | -- | LI | 0.4 ... 1 | -- | -- | 1.25 ... 11 | -- | -- |
| SL | ETU12 | ✓ | -- | -- | -- | -- | LIG | 0.4 ... 1 | -- | -- | 1.25 ... 11 | 0.6 ... 1, OFF | 0.1 ... 0.3 |
| ML | ETU12 | ✓ | -- | -- | -- | -- | LIG | 0.4 ... 1 | -- | -- | 1.25 ... 11 | 0.6 ... 1, OFF | 0.1 ... 0.3 |
| SF | ETU12 | ✓ | -- | -- | -- | -- | LIG | 0.4 ... 1 | -- | -- | 1.25 ... 11 | 0.6 ... 1, OFF | 0.1 ... 0.3 |
| MF | ETU12 | ✓ | -- | -- | -- | -- | LIG | 0.4 ... 1 | -- | -- | 1.25 ... 11 | 0.6 ... 1, OFF | 0.1 ... 0.3 |
| TN | ETU12 | ✓ | -- | -- | -- | -- | LING | 0.4 ... 1 | -- | -- | 1.25 ... 11 | 0.6 ... 1, OFF | 0.1 ... 0.3 |
| NN | ETU12 | ✓ | -- | -- | -- | -- | LING | 0.4 ... 1 | -- | -- | 1.25 ... 11 | 0.6 ... 1, OFF | 0.1 ... 0.3 |
| SE | ETU20 | -- | ✓ | -- | -- | -- | LSI | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 11 | -- | -- |
| ME | ETU20 | -- | ✓ | -- | -- | -- | LSI | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 11 | -- | -- |
| LE | ETU20 | -- | ✓ | -- | -- | -- | LSI | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 11 | -- | -- |
| TE | ETU20 | -- | ✓ | -- | -- | -- | LSI | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 11 | -- | -- |
| NE | ETU20 | -- | ✓ | -- | -- | -- | LSI | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 11 | -- | -- |
| TF | ETU20 | -- | ✓ | -- | -- | -- | LSIN | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 11 | -- | -- |
| NF | ETU20 | -- | ✓ | -- | -- | -- | LSIN | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 11 | -- | -- |
| LF | ETU20 | -- | ✓ | -- | -- | -- | LSIN | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 11 | -- | -- |
| SG | ETU22 | -- | ✓ | -- | -- | -- | LSIG | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 11 | 0.6 ... 1, OFF | 0.1 ... 0.3 |
| MG | ETU22 | -- | ✓ | -- | -- | -- | LSIG | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 11 | 0.6 ... 1, OFF | 0.1 ... 0.3 |
| SH | ETU22 | -- | ✓ | -- | -- | -- | LSIG | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 11 | 0.6 ... 1, OFF | 0.1 ... 0.3 |
| MH | ETU22 | -- | ✓ | -- | -- | -- | LSIG | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 11 | 0.6 ... 1, OFF | 0.1 ... 0.3 |
| TH | ETU22 | -- | ✓ | -- | -- | -- | LSING | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 11 | 0.6 ... 1, OFF | 0.1 ... 0.3 |
| NH | ETU22 | -- | ✓ | -- | -- | -- | LSING | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 11 | 0.6 ... 1, OFF | 0.1 ... 0.3 |
| SS | ETU30M[3] | -- | -- | ✓ | -- | -- | LI | 0.4 ... 1 | -- | -- | 6/8/11 | -- | -- |
| MS | ETU30M[3] | -- | -- | ✓ | -- | -- | LI | 0.4 ... 1 | -- | -- | 6/8/11 | -- | -- |
| LS | ETU30M[3] | -- | -- | ✓ | -- | -- | LI | 0.4 ... 1 | -- | -- | 6/8/11 | -- | -- |
| UP | LCD ETU40M[3] | -- | -- | ✓ | -- | -- | LI | 0.4 ... 1 | -- | -- | 1.25 ... 11 | -- | -- |
| UH | LCD ETU40 | -- | ✓ | -- | -- | -- | LI, LS, LSI | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 1.25 ... 11 | -- | -- |
| UJ | LCD ETU40 | -- | ✓ | -- | -- | -- | LI, LSI, LIN, LSIN | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 1.25 ... 11 | -- | -- |
| UL | LCD ETU42 | -- | ✓ | -- | -- | -- | LSIG | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 1.25 ... 11 | 0.4 ... 1 | 0.1 ... 0.5 |
| UM | LCD ETU42 | -- | ✓ | -- | -- | -- | LSIG | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 1.25 ... 11 | 0.4 ... 1 | 0.1 ... 0.5 |
| UN | LCD ETU42 | -- | ✓ | -- | -- | -- | LSIG, LSING | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 1.25 ... 11 | 0.4 ... 1 | 0.1 ... 0.5 |

✓ Function is available.

-- Function not available.

1) Size dependent.

2) TM up to $I_n$ = 630 A.

3) Motor protection up to $I_n$ = 500 A.

4) Non-adjustable.

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| Article No. supplement | Releases | Thermal image | Phase failure | Communication-capable | Ground-fault protection | Number of poles | N pole protected[1] | $I^2t$ (ON/OFF) | Trip class ($t_C$) | Time-lag class ($t_R$) | Thermal-magnetic overcurrent releases | Magnetic releases | Electronic Trip Unit | LCD display |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DK | M | -- | -- | -- | -- | 3 | -- | -- | -- | -- | -- | ✓ | -- | -- |
| DE | M | -- | -- | -- | -- | 3 | -- | -- | -- | -- | -- | ✓ | -- | -- |
| EE | M | -- | -- | -- | -- | 4 | -- | -- | -- | -- | -- | ✓ | -- | -- |
| DA | TM[2] | ✓ | -- | -- | -- | 3 | -- | -- | -- | -- | ✓ | -- | -- | -- |
| DD | TM[2] | ✓ | -- | -- | -- | 3 | -- | -- | -- | -- | ✓ | -- | -- | -- |
| DC | TM[2] | ✓ | -- | -- | -- | 3 | -- | -- | -- | -- | ✓ | -- | -- | -- |
| EH | TM[2] | ✓ | -- | -- | -- | 4 | -- | -- | -- | -- | ✓ | -- | -- | -- |
| EJ | TM[2] | ✓ | -- | -- | -- | 4 | -- | -- | -- | -- | ✓ | -- | -- | -- |
| EA/EL | TM[2] | ✓ | -- | -- | -- | 4 | 100 % | -- | -- | -- | ✓ | -- | -- | -- |
| EC | TM[2] | ✓ | -- | -- | -- | 4 | 60 % | -- | -- | -- | ✓ | -- | -- | -- |
| EM | TM[2] | ✓ | -- | -- | -- | 4 | 100 % | -- | -- | -- | ✓ | -- | -- | -- |
| SP | ETU10M[3] | ✓ | 40 % $I_R$ | -- | -- | 3 | -- | -- | 10 | -- | -- | -- | ✓ | -- |
| MP | ETU10M[3] | ✓ | 40 % $I_R$ | ✓[4] | -- | 3 | -- | -- | 10 | -- | -- | -- | ✓ | -- |
| SB | ETU10 | ✓ | -- | -- | -- | 3 | -- | -- | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| MB | ETU10 | ✓ | -- | ✓[4] | -- | 3 | -- | -- | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| LB | ETU10 | ✓ | -- | -- | -- | 3 | -- | -- | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| TA | ETU10 | ✓ | -- | -- | -- | 4 | 50/100 % | -- | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| NA | ETU10 | ✓ | -- | ✓[4] | -- | 4 | 50/100 % | -- | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| LA | ETU10 | ✓ | -- | -- | -- | 4 | 50/100 % | -- | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| TB | ETU10 | ✓ | -- | -- | -- | 4 | -- | -- | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| NB | ETU10 | ✓ | -- | ✓[4] | -- | 4 | -- | -- | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| SL | ETU12 | ✓ | -- | -- | ① | 3 | -- | -- | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| ML | ETU12 | ✓ | -- | ✓[4] | ① | 3 | -- | -- | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| SF | ETU12 | ✓ | -- | -- | ② | 3 | -- | -- | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| MF | ETU12 | ✓ | -- | ✓[4] | ② | 3 | -- | -- | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| TN | ETU12 | ✓ | -- | -- | ② | 4 | 50/100 % | -- | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| NN | ETU12 | ✓ | -- | ✓[4] | ② | 4 | 50/100 % | -- | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| SE | ETU20 | ✓ | -- | -- | -- | 3 | -- | ✓ | -- | -- | -- | -- | ✓ | -- |
| ME | ETU20 | ✓ | -- | ✓[4] | -- | 3 | -- | ✓ | -- | -- | -- | -- | ✓ | -- |
| LE | ETU20 | ✓ | -- | -- | -- | 3 | -- | ✓ | -- | -- | -- | -- | ✓ | -- |
| TE | ETU20 | ✓ | -- | -- | -- | 4 | -- | ✓ | -- | -- | -- | -- | ✓ | -- |
| NE | ETU20 | ✓ | -- | ✓[4] | -- | 4 | -- | ✓ | -- | -- | -- | -- | ✓ | -- |
| TF | ETU20 | ✓ | -- | -- | -- | 4 | 50/100 % | ✓ | -- | -- | -- | -- | ✓ | -- |
| NF | ETU20 | ✓ | -- | ✓[4] | -- | 4 | 50/100 % | ✓ | -- | -- | -- | -- | ✓ | -- |
| LF | ETU20 | ✓ | -- | -- | -- | 4 | 50/100 % | ✓ | -- | -- | -- | -- | ✓ | -- |
| SG | ETU22 | ✓ | -- | -- | ① | 3 | -- | ✓ | -- | -- | -- | -- | ✓ | -- |
| MG | ETU22 | ✓ | -- | ✓[4] | ① | 3 | -- | ✓ | -- | -- | -- | -- | ✓ | -- |
| SH | ETU22 | ✓ | -- | -- | ② | 3 | -- | ✓ | -- | -- | -- | -- | ✓ | -- |
| MH | ETU22 | ✓ | -- | ✓[4] | ② | 3 | -- | ✓ | -- | -- | -- | -- | ✓ | -- |
| TH | ETU22 | ✓ | -- | -- | ② | 4 | 50/100 % | ✓ | -- | -- | -- | -- | ✓ | -- |
| NH | ETU22 | ✓ | -- | ✓[4] | ② | 4 | 50/100 % | ✓ | -- | -- | -- | -- | ✓ | -- |
| SS | ETU30M[3] | ✓ | 40 % $I_R$ | -- | -- | 3 | -- | -- | 10, 20, 30 | -- | -- | -- | ✓ | -- |
| MS | ETU30M[3] | ✓ | 40 % $I_R$ | ✓[4] | -- | 3 | -- | -- | 10, 20, 30 | -- | -- | -- | ✓ | -- |
| LS | ETU30M[3] | ✓ | 40 % $I_R$ | -- | -- | 3 | -- | -- | 10, 20, 30 | -- | -- | -- | ✓ | -- |
| UP | LCD ETU40M[3] | ✓ | 5 ... 50 % $I_R$ | ✓[4] | -- | 3 | -- | -- | 5, 10, 15, 20, 30 | -- | -- | -- | ✓ | ✓ |
| UH | LCD ETU40 | ✓ | -- | ✓[4] | -- | 3 | -- | ✓ | -- | 2.5 ... 30 | -- | -- | ✓ | ✓ |
| UJ | LCD ETU40 | ✓ | -- | ✓[4] | -- | 4 | 50 ... 100 %, OFF | ✓ | -- | 2.5 ... 30 | -- | -- | ✓ | ✓ |
| UL | LCD ETU42 | ✓ | -- | ✓[4] | ① | 3 | -- | ✓ | -- | 2.5 ... 30 | -- | -- | ✓ | ✓ |
| UM | LCD ETU42 | ✓ | -- | ✓[4] | ①/③ | 3 | -- | ✓ | -- | 2.5 ... 30 | -- | -- | ✓ | ✓ |
| UN | LCD ETU42 | ✓ | -- | ✓[4] | ② | 4 | 50 ... 100 %, OFF | ✓ | -- | 2.5 ... 30 | -- | -- | ✓ | ✓ |

Ground-fault protection
① Vectorial summation current formation (3-conductor system)
② Vectorial summation current formation (4-conductor system)
③ Direct detection of ground-fault current in the neutral point of the transformer

✓ Function is available.
-- Function not available.

[1] Size dependent.
[2] TM up to $I_n$ = 630 A.
[3] Motor protection up to $I_n$ = 500 A.
[4] With COM20/COM21.

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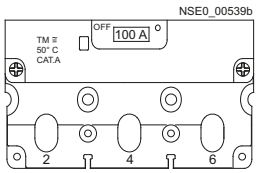
## 3-pole



### Selection and ordering data

| Type | Rated current $I_n$ | Current setting range of the inverse-time delayed overcurrent protection "**L**" $I_R$ | Operating current of the instantaneous short-circuit protection "**I**" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | | | | | | | kg |
| **3-pole, fixed-mounted, for line protection, 16 A to 160 A, thermal-magnetic overcurrent releases LI** | | | | | | | | | | |
| | 16 | 16 | 300 | | 3VL1796-1DA3□-□□□□ | | 1 | 1 unit | 1CC | 1.900 |
| VL160X/ 3VL1 | 20 | 20 | 300 | | 3VL1702-1DA3□-□□□□ | | 1 | 1 unit | 1CC | 1.900 |
| | 25 | 25 | 300 | | 3VL1725-1DA3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 32 | 32 | 300 | | 3VL1703-1DA3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 40 | 40 | 600 | | 3VL1704-1DA3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 50 | 50 | 600 | | 3VL1705-1DA3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 63 | 63 | 600 | | 3VL1706-1DA3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 80 | 80 | 1000 | | 3VL1708-1DA3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 100 | 100 | 1000 | | 3VL1710-1DA3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 125 | 125 | 1000 | | 3VL1712-1DA3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 160 | 160 | 1500 | | 3VL1716-1DA3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |


NSE0_00695




***Line protection, TM, LI function***

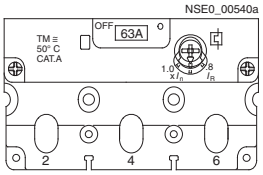
With non-adjustable thermal overcurrent releases, non-adjustable short-circuit releases

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | **3** |
| • Connection with flat screw terminal not in conjunction with RCD module[1)] | **6** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **3-pole, fixed-mounted, for line protection, 16 A to 160 A, thermal-magnetic overcurrent releases LI** | | | | | | | | | | |
| VL160X/ 3VL1 | 20 | 16 ... 20 | 300 | | 3VL1702-1DD3□-□□□□ | | 1 | 1 unit | 1CC | 1.900 |
| | 32 | 25 ... 32 | 300 | | 3VL1703-1DD3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 40 | 32 ... 40 | 600 | | 3VL1704-1DD3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 50 | 40 ... 50 | 600 | | 3VL1705-1DD3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 63 | 50 ... 63 | 600 | | 3VL1706-1DD3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 80 | 63 ... 80 | 1000 | | 3VL1708-1DD3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 100 | 80 ... 100 | 1000 | | 3VL1710-1DD3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 125 | 100 ... 125 | 1000 | | 3VL1712-1DD3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 160 | 125 ... 160 | 1500 | | 3VL1716-1DD3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |


NSE0_00703




***Line protection, TM, LI function***

With adjustable thermal overcurrent releases, non-adjustable short-circuit releases

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | **3** |
| • Connection with flat screw terminal not in conjunction with RCD module[1)] | **6** |

[1)] **When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**



* **Diese Menge oder ein Vielfaches dieser Menge kann bestellt werden.**

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No.<br>Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No.<br>Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL1796-2DA3□-□□□□** | | 1 | 1 unit | 1CC | 1.900 | | -- | | | | | |
| | **3VL1702-2DA3□-□□□□** | | 1 | 1 unit | 1CC | 1.900 | | -- | | | | | |
| | **3VL1725-2DA3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1703-2DA3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1704-2DA3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1705-2DA3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1706-2DA3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1708-2DA3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1710-2DA3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1712-2DA3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1716-2DA3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |

3
6

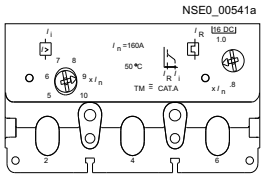
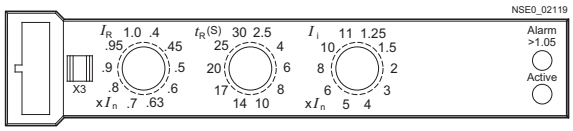
| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **3VL1702-2DD3□-□□□□** | | 1 | 1 unit | 1CC | 1.900 | | -- | | | | | |
| | **3VL1703-2DD3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1704-2DD3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1705-2DD3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1706-2DD3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1708-2DD3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1710-2DD3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1712-2DD3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1716-2DD3□-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |

3
6

*** You can order this quantity or a multiple thereof.**

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| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "L" $I_R$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | (N) Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | | | | | | | kg |
| **3-pole, fixed-mounted, for line protection, 50 A to 630 A, thermal-magnetic overcurrent releases LI** | | | | | | | | | | |
| |  NSE0_00691 |  NSE0_00541a | | | | | | | | |
| ***Line protection, TM, LI function*** | | | | | | | | | | |
| With adjustable thermal overcurrent releases, adjustable short-circuit releases | | | | | | | | | | |
| VL160/ 3VL2 | 50 | 40 ... 50 | 300 ... 600 | | 3VL2705-1DC3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 63 | 50 ... 63 | 300 ... 600 | | 3VL2706-1DC3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 80 | 63 ... 80 | 400 ... 800 | | 3VL2708-1DC3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 100 | 80 ... 100 | 500 ... 1000 | | 3VL2710-1DC3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 125 | 100 ... 125 | 625 ... 1250 | | 3VL2712-1DC3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 160 | 125 ... 160 | 800 ... 1600 | | 3VL2716-1DC3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| VL250/ 3VL3 | 200 | 160 ... 200 | 1000 ... 2000 | | 3VL3720-1DC3□-□□□□ | | 1 | 1 unit | 1CC | 2.300 |
| | 250 | 200 ... 250 | 1250 ... 2500 | | 3VL3725-1DC3□-□□□□ | | 1 | 1 unit | 1CC | 2.300 |
| | | | | | Connection type can be selected by assignment of the 12th position of the Article No. | | | | | |
| | | | | | • Connection with box terminal — 3 | | | | | |
| | | | | | • Connection with flat screw terminal[1] — 6 | | | | | |
| VL400/3VL4 | 200 | 160 ... 200 | 1000 ... 2000 | | 3VL4720-1DC36-□□□□ | | 1 | 1 unit | 1CC | 5.700 |
| | 250 | 200 ... 250 | 1250 ... 2500 | | 3VL4725-1DC36-□□□□ | | 1 | 1 unit | 1CC | 5.700 |
| | 315 | 250 ... 315 | 1575 ... 3150 | | 3VL4731-1DC36-□□□□ | | 1 | 1 unit | 1CC | 5.700 |
| | 400 | 320 ... 400 | 2000 ... 4000 | | 3VL4740-1DC36-□□□□ | | 1 | 1 unit | 1CC | 5.700 |
| VL630/3VL5 | 315 | 250 ... 315 | 1575 ... 3150 | | 3VL5731-1DC36-□□□□ | | 1 | 1 unit | 1CC | 9.000 |
| | 400 | 320 ... 400 | 2000 ... 4000 | | 3VL5740-1DC36-□□□□ | | 1 | 1 unit | 1CC | 9.000 |
| | 500 | 400 ... 500 | 2500 ... 5000 | | 3VL5750-1DC36-□□□□ | | 1 | 1 unit | 1CC | 9.000 |
| | 630 | 500 ... 630 | 3150 ... 6300 | | 3VL5763-1DC36-□□□□ | | 1 | 1 unit | 1CC | 9.000 |
| **3-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LI** | | | | | | | | | | |
| |  NSE0_00691 |  NSE0_02119 | | | | | | | | |
| ***ETU10, LI function*** | | | | | | | | | | |
| With adjustable overcurrent releases, adjustable short-circuit releases | | | | | | | | | | |
| VL160/3VL2 | 63 | 25 ... 63 | 1.25 ... 11 × $I_n$ | | 3VL2706-1□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 40 ... 100 | 1.25 ... 11 × $I_n$ | | 3VL2710-1□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 160 | 64 ... 160 | 1.25 ... 11 × $I_n$ | | 3VL2716-1□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| VL250/3VL3 | 200 | 80 ... 200 | 1.25 ... 11 × $I_n$ | | 3VL3720-1□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 100 ... 250 | 1.25 ... 11 × $I_n$ | | 3VL3725-1□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | | | | | Connection type can be selected by assignment of the 12th position of the Article No. | | | | | |
| | | | | | • Connection with box terminal — 3 | | | | | |
| | | | | | • Connection with flat screw terminal[1] — 6 | | | | | |
| VL400/3VL4 | 315 | 128 ... 315 | 1.25 ... 11 × $I_n$ | | 3VL4731-1□□36-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 400 | 160 ... 400 | 1.25 ... 11 × $I_n$ | | 3VL4740-1□□36-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| VL630/3VL5 | 630 | 252 ... 630 | 1.25 ... 10 × $I_n$ | | 3VL5763-1□□36-□□□□ | | 1 | 1 unit | 1CC | 9.300 |
| VL800/3VL6 | 800 | 320 ... 800 | 1.25 ... 8 × $I_n$ | | 3VL6780-1□□36-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| VL1250/3VL7 | 1000 | 400 ... 1000 | 1.25 ... 11 × $I_n$ | | 3VL7710-1□□36-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 1250 | 500 ... 1250 | 1.25 ... 11 × $I_n$ | | 3VL7712-1□□36-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| VL1600/3VL8[2] | 1600 | 640 ... 1600 | 1.25 ... 9 × $I_n$ | | 3VL8716-1□□30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |
| | | | | | • Without communication preparation — SB | | | | | |
| | | | | | • With communication preparation — MB | | | | | |
| | | | | | • Marine engineering-certified LRS, DNV, GL and BV (not communication-ready) — LB | | | | | |

**[1] When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

[2] Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:
- For accessories, see page 2/207.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".



* You can order this quantity or a multiple thereof.

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2705-2DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.200 | | **3VL2705-3DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.200 |
| | **3VL2706-2DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.200 | | **3VL2706-3DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.200 |
| | **3VL2708-2DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.200 | | **3VL2708-3DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.200 |
| | **3VL2710-2DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.200 | | **3VL2710-3DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.200 |
| | **3VL2712-2DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.200 | | **3VL2712-3DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.200 |
| | **3VL2716-2DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.200 | | **3VL2716-3DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.200 |
| | **3VL3720-2DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.300 | | **3VL3720-3DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.300 |
| | **3VL3725-2DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.300 | | **3VL3725-3DC3□-□□□□** | | 1 | 1 unit | 1CC | 2.300 |
| | **3<br>6** | | | | | | | **3<br>6** | | | | | |
| | **3VL4720-2DC36-□□□□** | | 1 | 1 unit | 1CC | 5.700 | | **3VL4720-3DC36-□□□□** | | 1 | 1 unit | 1CC | 5.700 |
| | **3VL4725-2DC36-□□□□** | | 1 | 1 unit | 1CC | 5.700 | | **3VL4725-3DC36-□□□□** | | 1 | 1 unit | 1CC | 5.700 |
| | **3VL4731-2DC36-□□□□** | | 1 | 1 unit | 1CC | 5.700 | | **3VL4731-3DC36-□□□□** | | 1 | 1 unit | 1CC | 5.700 |
| | **3VL4740-2DC36-□□□□** | | 1 | 1 unit | 1CC | 5.700 | | **3VL4740-3DC36-□□□□** | | 1 | 1 unit | 1CC | 5.700 |
| | **3VL5731-2DC36-□□□□** | | 1 | 1 unit | 1CC | 9.000 | | **3VL5731-3DC36-□□□□** | | 1 | 1 unit | 1CC | 9.000 |
| | **3VL5740-2DC36-□□□□** | | 1 | 1 unit | 1CC | 9.000 | | **3VL5740-3DC36-□□□□** | | 1 | 1 unit | 1CC | 9.000 |
| | **3VL5750-2DC36-□□□□** | | 1 | 1 unit | 1CC | 9.000 | | **3VL5750-3DC36-□□□□** | | 1 | 1 unit | 1CC | 9.000 |
| | **3VL5763-2DC36-□□□□** | | 1 | 1 unit | 1CC | 9.000 | | **3VL5763-3DC36-□□□□** | | 1 | 1 unit | 1CC | 9.000 |
| | **3VL2706-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2706-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2710-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2710-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2716-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2716-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL3720-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3720-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3725-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3725-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3<br>6** | | | | | | | **3<br>6** | | | | | |
| | **3VL4731-2□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4731-3□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4740-2□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4740-3□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL5763-2□□36-□□□□** | | 1 | 1 unit | 1CC | 9.300 | | **3VL5763-3□□36-□□□□** | | 1 | 1 unit | 1CC | 9.300 |
| | **3VL6780-2□□36-□□□□** | | 1 | 1 unit | 1CC | 16.000 | | **3VL6780-3□□36-□□□□** | | 1 | 1 unit | 1CC | 16.000 |
| | **3VL7710-2□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7710-3□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL7712-2□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7712-3□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL8716-2□□30-□□□□** | | 1 | 1 unit | 1CC | 31.300 | | **3VL8716-3□□30-□□□□** | | 1 | 1 unit | 1CC | 31.300 |
| | **SB<br>MB<br>LB** | | | | | | | **SB<br>MB<br>LB** | | | | | |

*** You can order this quantity or a multiple thereof.**

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## 3-pole

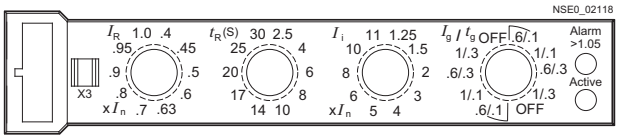


| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "**L**" $I_R$ | Operating current of the instantaneous short-circuit protection "**I**" $I_i$ | Ground-fault protection "**G**" $I_g$ | DT | $I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | A | | | | | | | kg |

### 3-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LIG



NSE0_00693




#### *ETU12, LIG function for 3-wire three-phase systems*

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current formation, ground fault delay $t_g$ = 0.1 ... 0.3 s, ground fault function (G) can be switched off.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 63 | 25 ... 63 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL2706-1□□3□-□□□□ | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 40 ... 100 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL2710-1□□3□-□□□□ | 1 | 1 unit | 1CC | 2.400 |
| | 160 | 64 ... 160 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL2716-1□□3□-□□□□ | 1 | 1 unit | 1CC | 2.400 |
| VL250/3VL3 | 200 | 80 ... 200 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL3720-1□□3□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 100 ... 250 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL3725-1□□3□-□□□□ | 1 | 1 unit | 1CC | 2.500 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | **3** |
| • Connection with screw terminal[1)] | **6** |

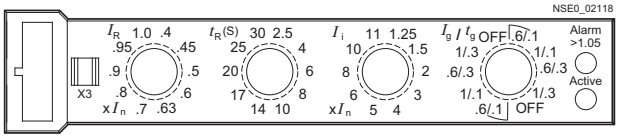
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| VL400/3VL4 | 315 | 128 ... 315 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL4731-1□□36-□□□□ | 1 | 1 unit | 1CC | 5.900 |
| | 400 | 160 ... 400 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL4740-1□□36-□□□□ | 1 | 1 unit | 1CC | 5.900 |
| VL630/3VL5 | 630 | 252 ... 630 | 1.25 ... 10 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL5763-1□□36-□□□□ | 1 | 1 unit | 1CC | 9.300 |
| VL800/3VL6 | 800 | 320 ... 800 | 1.25 ... 8 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL6780-1□□36-□□□□ | 1 | 1 unit | 1CC | 16.000 |
| VL1250/3VL7 | 1000 | 400 ... 1000 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL7710-1□□36-□□□□ | 1 | 1 unit | 1CC | 25.000 |
| | 1250 | 500 ... 1250 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL7712-1□□36-□□□□ | 1 | 1 unit | 1CC | 25.000 |
| VL1600/3VL8[2)] | 1600 | 640 ... 1600 | 1.25 ... 9 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL8716-1□□30-□□□□ | 1 | 1 unit | 1CC | 31.300 |

| | |
|---|---|
| • Without communication preparation | **SL** |
| • With communication preparation | **ML** |

### 3-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LIG



NSE0_00693




#### *ETU12, LIG function for 4-wire three-phase systems*

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current formation, external current transformers required in addition, see page 2/206.
Ground fault delay $t_g$ = 0.1 ...0.3 s, ground fault function (G) can be switched off.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 63 | 25 ... 63 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL2706-1□□3□-□□□□ | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 40 ... 100 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL2710-1□□3□-□□□□ | 1 | 1 unit | 1CC | 2.400 |
| | 160 | 64 ... 160 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL2716-1□□3□-□□□□ | 1 | 1 unit | 1CC | 2.400 |
| VL250/3VL3 | 200 | 80 ... 200 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL3720-1□□3□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 100 ... 250 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL3725-1□□3□-□□□□ | 1 | 1 unit | 1CC | 2.500 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | **3** |
| • Connection with screw terminal[1)] | **6** |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| VL400/3VL4 | 315 | 128 ... 315 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL4731-1□□36-□□□□ | 1 | 1 unit | 1CC | 5.900 |
| | 400 | 160 ... 400 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL4740-1□□36-□□□□ | 1 | 1 unit | 1CC | 5.900 |
| VL630/3VL5 | 630 | 252 ... 630 | 1.25 ... 10 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL5763-1□□36-□□□□ | 1 | 1 unit | 1CC | 9.300 |
| VL800/3VL6 | 800 | 320 ... 800 | 1.25 ... 8 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL6780-1□□36-□□□□ | 1 | 1 unit | 1CC | 16.000 |
| VL1250/3VL7 | 1000 | 400 ... 1000 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL7710-1□□36-□□□□ | 1 | 1 unit | 1CC | 25.000 |
| | 1250 | 500 ... 1250 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL7712-1□□36-□□□□ | 1 | 1 unit | 1CC | 25.000 |
| VL1600/3VL8[2)] | 1600 | 640 ... 1600 | 1.25 ... 9 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL8716-1□□30-□□□□ | 1 | 1 unit | 1CC | 31.300 |

| | |
|---|---|
| • Without communication preparation | **SF** |
| • With communication preparation | **MF** |

[1)] **When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

[2)] Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.



*** You can order this quantity or a multiple thereof.**

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2706-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2706-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2710-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2710-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2716-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2716-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL3720-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3720-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3725-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3725-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | **3VL4731-2□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4731-3□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4740-2□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4740-3□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL5763-2□□36-□□□□** | | 1 | 1 unit | 1CC | 9.300 | | **3VL5763-3□□36-□□□□** | | 1 | 1 unit | 1CC | 9.300 |
| | **3VL6780-2□□36-□□□□** | | 1 | 1 unit | 1CC | 16.000 | | **3VL6780-3□□36-□□□□** | | 1 | 1 unit | 1CC | 16.000 |
| | **3VL7710-2□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7710-3□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL7712-2□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7712-3□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL8716-2□□30-□□□□** | | 1 | 1 unit | 1CC | 31.300 | | **3VL8716-3□□30-□□□□** | | 1 | 1 unit | 1CC | 31.300 |
| | **SL ML** | | | | | | | **SL ML** | | | | | |

| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2706-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2706-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2710-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2710-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2716-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2716-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL3720-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3720-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3725-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3725-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | **3VL4731-2□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4731-3□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4740-2□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4740-3□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL5763-2□□36-□□□□** | | 1 | 1 unit | 1CC | 9.300 | | **3VL5763-3□□36-□□□□** | | 1 | 1 unit | 1CC | 9.300 |
| | **3VL6780-2□□36-□□□□** | | 1 | 1 unit | 1CC | 16.000 | | **3VL6780-3□□36-□□□□** | | 1 | 1 unit | 1CC | 16.000 |
| | **3VL7710-2□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7710-3□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL7712-2□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7712-3□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL8716-2□□30-□□□□** | | 1 | 1 unit | 1CC | 31.300 | | **3VL8716-3□□30-□□□□** | | 1 | 1 unit | 1CC | 31.300 |
| | **SF MF** | | | | | | | **SF MF** | | | | | |

Communication:

- For accessories, see page 2/207.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

*** You can order this quantity or a multiple thereof.**

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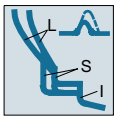


## 3-pole

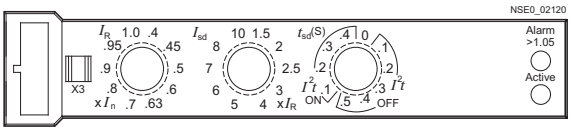


| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "**L**" $I_R$ | Operating current of the instantaneous short-circuit protection "**I**" $I_i$ | S function short-circuit protection (short-time delayed) **S** | DT | $I_{cu}$ up to 55 kA at 415 V, **standard breaking capacity N** See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | A | | | | | | | kg |

### 3-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSI



NSE0_00692




***ETU20, LSI function for time-based discrimination***

With adjustable overcurrent releases, non-adjustable short-circuit releases, short-circuit delay ($t_{sd}$ = 0 to 0.5 s)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 63 | 0.4 ... 1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL2706-1□□3□-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 0.4 ... 1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL2710-1□□3□-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| | 160 | 0.4 ... 1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL2716-1□□3□-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| VL250/3VL3 | 200 | 0.4 ... 1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL3720-1□□3□-□□□□** | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 0.4 ... 1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL3725-1□□3□-□□□□** | 1 | 1 unit | 1CC | 2.500 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | **3** |
| • Connection with screw terminal[1)] | **6** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| VL400/3VL4 | 315 | 0.4 ... 1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL4731-1□□36-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| | 400 | 0.4 ... 1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL4740-1□□36-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| VL630/3VL5 | 630 | 0.4 ... 1.0 × $I_n$ | 10 × $I_n$ | 1.5 ... 9 × $I_R$ | **3VL5763-1□□36-□□□□** | 1 | 1 unit | 1CC | 9.300 |
| VL800/3VL6 | 800 | 0.4 ... 1.0 × $I_n$ | 8 × $I_n$ | 1.5 ... 7 × $I_R$ | **3VL6780-1□□36-□□□□** | 1 | 1 unit | 1CC | 16.000 |
| VL1250/3VL7 | 1000 | 0.4 ... 1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL7710-1□□36-□□□□** | 1 | 1 unit | 1CC | 25.000 |
| | 1250 | 0.4 ... 1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL7712-1□□36-□□□□** | 1 | 1 unit | 1CC | 25.000 |
| VL1600/3VL8[2)] | 1600 | 0.4 ... 1.0 × $I_n$ | 9 × $I_n$ | 1.5 ... 8 × $I_R$ | **3VL8716-1□□30-□□□□** | 1 | 1 unit | 1CC | 31.300 |

| | |
|---|---|
| • Without communication preparation | **SE** |
| • With communication preparation | **ME** |
| • Marine engineering-certified LRS, DNV, GL and BV (not communication-ready) | **LE** |

**1) When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

2) Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/207.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".



*** You can order this quantity or a multiple thereof.**

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2706-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2706-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2710-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2710-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2716-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2716-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL3720-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3720-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3725-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3725-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | **3VL4731-2□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4731-3□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4740-2□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4740-3□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL5763-2□□36-□□□□** | | 1 | 1 unit | 1CC | 9.300 | | **3VL5763-3□□36-□□□□** | | 1 | 1 unit | 1CC | 9.300 |
| | **3VL6780-2□□36-□□□□** | | 1 | 1 unit | 1CC | 16.000 | | **3VL6780-3□□36-□□□□** | | 1 | 1 unit | 1CC | 16.000 |
| | **3VL7710-2□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7710-3□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL7712-2□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7712-3□□36-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL8716-2□□30-□□□□** | | 1 | 1 unit | 1CC | 31.300 | | **3VL8716-3□□30-□□□□** | | 1 | 1 unit | 1CC | 31.300 |
| | **SE ME LE** | | | | | | | **SE ME LE** | | | | | |

*** You can order this quantity or a multiple thereof.**

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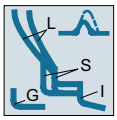


## 3-pole

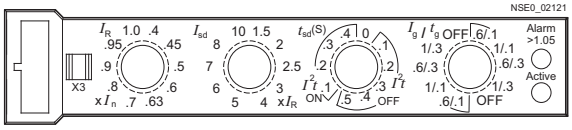
2

| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "**L**" $I_R$ | Operating current of the instantaneous short-circuit protection "**I**" $I_i$ | S function short-circuit protection (short-time delayed) **S** | Ground-fault protection "**G**" $I_g$ | DT | $I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N (N) See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | A | A | | | | | | | kg |

### 3-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSIG



NSE0_00694




***ETU22, LSIG function for 3-wire three-phase systems and time-based discrimination***

With adjustable overcurrent releases, non-adjustable short-circuit releases, ground fault delay $t_g$ = 0.1 ... 0.3 s, short-circuit delay $t_{sd}$ = 0 ... 0.5 s, ground-fault protection (G) can be switched off

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 63 | 25 ... 63 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | 3VL2706-1□□3□-□□□□ | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 40 ... 100 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | 3VL2710-1□□3□-□□□□ | 1 | 1 unit | 1CC | 2.400 |
| | 160 | 64 ... 160 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | 3VL2716-1□□3□-□□□□ | 1 | 1 unit | 1CC | 2.400 |
| VL250/3VL3 | 200 | 80 ... 200 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | 3VL3720-1□□3□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 100 ... 250 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | 3VL3725-1□□3□-□□□□ | 1 | 1 unit | 1CC | 2.500 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | 3 |
| • Connection with screw terminal[1] | 6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VL400/3VL4 | 315 | 128 ... 315 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | 3VL4731-1□□36-□□□□ | 1 | 1 unit | 1CC | 5.900 |
| | 400 | 160 ... 400 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | 3VL4740-1□□36-□□□□ | 1 | 1 unit | 1CC | 5.900 |
| VL630/3VL5 | 630 | 252 ... 630 | 10 × $I_n$ | 1.5 ... 9 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | 3VL5763-1□□36-□□□□ | 1 | 1 unit | 1CC | 9.300 |
| VL800/3VL6 | 800 | 320 ... 800 | 8 × $I_n$ | 1.5 ... 7 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | 3VL6780-1□□36-□□□□ | 1 | 1 unit | 1CC | 16.000 |
| VL1250/3VL7 | 1000 | 400 ... 1000 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | 3VL7710-1□□36-□□□□ | 1 | 1 unit | 1CC | 25.000 |
| | 1250 | 500 ... 1250 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | 3VL7712-1□□36-□□□□ | 1 | 1 unit | 1CC | 25.000 |
| VL1600/3VL8[2] | 1600 | 640 ... 1600 | 9 × $I_n$ | 1.5 ... 8 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | 3VL8716-1□□30-□□□□ | 1 | 1 unit | 1CC | 31.300 |

| | |
|---|---|
| • Without communication preparation | SG |
| • With communication preparation | MG |

[1] **When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

[2] Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/207.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".



* You can order this quantity or a multiple thereof.

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | 3VL2706-2□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 | | 3VL2706-3□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 3VL2710-2□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 | | 3VL2710-3□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 3VL2716-2□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 | | 3VL2716-3□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 3VL3720-2□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.500 | | 3VL3720-3□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 3VL3725-2□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.500 | | 3VL3725-3□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 3<br>6 | | | | | | | 3<br>6 | | | | | |
| | 3VL4731-2□□36-□□□□ | | 1 | 1 unit | 1CC | 5.900 | | 3VL4731-3□□36-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 3VL4740-2□□36-□□□□ | | 1 | 1 unit | 1CC | 5.900 | | 3VL4740-3□□36-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 3VL5763-2□□36-□□□□ | | 1 | 1 unit | 1CC | 9.300 | | 3VL5763-3□□36-□□□□ | | 1 | 1 unit | 1CC | 9.300 |
| | 3VL6780-2□□36-□□□□ | | 1 | 1 unit | 1CC | 16.000 | | 3VL6780-3□□36-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| | 3VL7710-2□□36-□□□□ | | 1 | 1 unit | 1CC | 25.000 | | 3VL7710-3□□36-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 3VL7712-2□□36-□□□□ | | 1 | 1 unit | 1CC | 25.000 | | 3VL7712-3□□36-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 3VL8716-2□□30-□□□□ | | 1 | 1 unit | 1CC | 31.300 | | 3VL8716-3□□30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |
| | SG<br>MG | | | | | | | SG<br>MG | | | | | |

* You can order this quantity or a multiple thereof.

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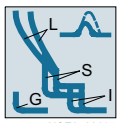


## 3-pole

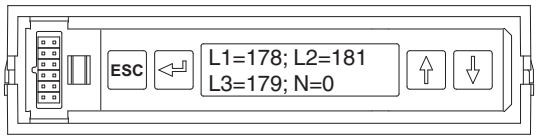


| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "**L**" $I_R$ | Operating current of the instantaneous short-circuit protection "**I**" $I_i$ | S function short-circuit protection (short-time delayed) **S** | Ground-fault protection "**G**" $I_g$ | DT | $I_{cu}$ **up to 55 kA at 415 V, standard breaking capacity N** See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | A | A | | | | | | | kg |

### 3-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSIG



NSE0_00697



NSE0_02129

#### *LCD-ETU42, LSIG function for 3-wire three-phase systems and time-based discrimination*

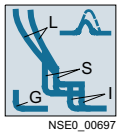
With adjustable overcurrent releases, adjustable short-circuit releases
Vectorial summation current formation, ground fault delay $t_g$ = 0.1 ... 0.5 s, short-circuit delay $t_{sd}$ = 0 ... 0.5 s

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 63 | 25 ... 63 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL2706-1UL3□-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 40 ... 100 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL2710-1UL3□-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| | 160 | 64 ... 160 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL2716-1UL3□-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| VL250/3VL3 | 200 | 80 ... 200 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL3720-1UL3□-□□□□** | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 100 ... 250 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL3725-1UL3□-□□□□** | 1 | 1 unit | 1CC | 2.500 |

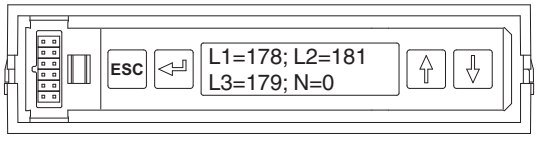
Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | **3** |
| • Connection with screw terminal[1)] | **6** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VL400/3VL4 | 315 | 128 ... 315 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL4731-1UL36-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| | 400 | 160 ... 400 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL4740-1UL36-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| VL630/3VL5 | 630 | 252 ... 630 | 10 × $I_n$ | 1.5 ... 9 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL5763-1UL36-□□□□** | 1 | 1 unit | 1CC | 9.300 |
| VL800/3VL6 | 800 | 320 ... 800 | 8 × $I_n$ | 1.5 ... 7 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL6780-1UL36-□□□□** | 1 | 1 unit | 1CC | 16.000 |
| VL1250/3VL7 | 1000 | 400 ... 1000 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL7710-1UL36-□□□□** | 1 | 1 unit | 1CC | 25.000 |
| | 1250 | 500 ... 1250 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL7712-1UL36-□□□□** | 1 | 1 unit | 1CC | 25.000 |
| VL1600/3VL8[2)] | 1600 | 640 ... 1600 | 9 × $I_n$ | 1.5 ... 8 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL8716-1UL30-□□□□** | 1 | 1 unit | 1CC | 31.300 |



NSE0_00697



NSE0_02129

#### *LCD-ETU42, LSIG function for 4-wire three-phase systems and time-based discrimination*

With adjustable overcurrent releases, adjustable short-circuit releases. External current transformer required in addition, see page 2/206.
Vectorial summation current formation, ground fault delay $t_g$ = 0.1 ... 0.5 s, short-circuit delay $t_{sd}$ = 0 ... 0.5 s

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 63 | 25 ... 63 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL2706-1UM3□-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 40 ... 100 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL2710-1UM3□-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| | 160 | 64 ... 160 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL2716-1UM3□-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| VL250/3VL3 | 200 | 80 ... 200 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL3720-1UM3□-□□□□** | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 100 ... 250 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL3725-1UM3□-□□□□** | 1 | 1 unit | 1CC | 2.500 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | **3** |
| • Connection with screw terminal[1)] | **6** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VL400/3VL4 | 315 | 128 ... 315 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL4731-1UM36-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| | 400 | 160 ... 400 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL4740-1UM36-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| VL630/3VL5 | 630 | 252 ... 630 | 10 × $I_n$ | 1.5 ... 9 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL5763-1UM36-□□□□** | 1 | 1 unit | 1CC | 9.300 |
| VL800/3VL6 | 800 | 320 ... 800 | 8 × $I_n$ | 1.5 ... 7 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL6780-1UM36-□□□□** | 1 | 1 unit | 1CC | 16.000 |
| VL1250/3VL7 | 1000 | 400 ... 1000 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL7710-1UM36-□□□□** | 1 | 1 unit | 1CC | 25.000 |
| | 1250 | 500 ... 1250 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL7712-1UM36-□□□□** | 1 | 1 unit | 1CC | 25.000 |
| VL1600/3VL8[2)] | 1600 | 640 ... 1600 | 9 × $I_n$ | 1.5 ... 8 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL8716-1UM30-□□□□** | 1 | 1 unit | 1CC | 31.300 |

**1) When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

2) Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.



*** You can order this quantity or a multiple thereof.**

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2706-2UL3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2706-3UL3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2710-2UL3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2710-3UL3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2716-2UL3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2716-3UL3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL3720-2UL3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3720-3UL3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3725-2UL3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3725-3UL3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | **3VL4731-2UL36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4731-3UL36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4740-2UL36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4740-3UL36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL5763-2UL36-□□□□** | | 1 | 1 unit | 1CC | 9.300 | | **3VL5763-3UL36-□□□□** | | 1 | 1 unit | 1CC | 9.300 |
| | **3VL6780-2UL36-□□□□** | | 1 | 1 unit | 1CC | 16.000 | | **3VL6780-3UL36-□□□□** | | 1 | 1 unit | 1CC | 16.000 |
| | **3VL7710-2UL36-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7710-3UL36-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL7712-2UL36-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7712-3UL36-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL8716-2UL30-□□□□** | | 1 | 1 unit | 1CC | 31.300 | | **3VL8716-3UL30-□□□□** | | 1 | 1 unit | 1CC | 31.300 |
| | **3VL2706-2UM3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2706-3UM3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2710-2UM3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2710-3UM3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2716-2UM3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2716-3UM3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL3720-2UM3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3720-3UM3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3725-2UM3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3725-3UM3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | **3VL4731-2UM36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4731-3UM36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4740-2UM36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4740-3UM36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL5763-2UM36-□□□□** | | 1 | 1 unit | 1CC | 9.300 | | **3VL5763-3UM36-□□□□** | | 1 | 1 unit | 1CC | 9.300 |
| | **3VL6780-2UM36-□□□□** | | 1 | 1 unit | 1CC | 16.000 | | **3VL6780-3UM36-□□□□** | | 1 | 1 unit | 1CC | 16.000 |
| | **3VL7710-2UM36-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7710-3UM36-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL7712-2UM36-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7712-3UM36-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL8716-2UM30-□□□□** | | 1 | 1 unit | 1CC | 31.300 | | **3VL8716-3UM30-□□□□** | | 1 | 1 unit | 1CC | 31.300 |

*** You can order this quantity or a multiple thereof.**

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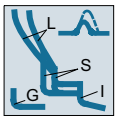


## 3-pole

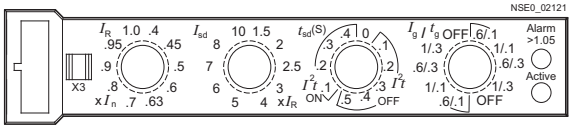


| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "**L**" $I_R$ | Operating current of the instantaneous short-circuit protection "**I**" $I_i$ | S function short-circuit protection (short-time delayed) **S** | Ground-fault protection "**G**" $I_g$ | DT | $I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N (N) See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | A | A | | | | | | | kg |

### 3-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSIG



NSE0_00694




***ETU22, LSIG function for 4-wire three-phase systems and time-based discrimination***

With adjustable overcurrent releases, non-adjustable short-circuit releases, external current transformers required in addition, see page 2/206.
Ground fault delay $t_g$ = 0.1 ... 0.3 s, short-circuit delay $t_{sd}$ = 0 ... 0.5 s, ground-fault protection (G) can be switched off

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 63 | 25 ... 63 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL2706-1□□3□-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 40 ... 100 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL2710-1□□3□-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| | 160 | 64 ... 160 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL2716-1□□3□-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| VL250/3VL3 | 200 | 80 ... 200 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL3720-1□□3□-□□□□** | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 100 ... 250 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL3725-1□□3□-□□□□** | 1 | 1 unit | 1CC | 2.500 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | **3** |
| • Connection with screw terminal[1)] | **6** |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VL400/3VL4 | 315 | 128 ... 315 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL4731-1□□36-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| | 400 | 160 ... 400 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL4740-1□□36-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| VL630/3VL5 | 630 | 252 ... 630 | 10 × $I_n$ | 1.5 ... 9 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL5763-1□□36-□□□□** | 1 | 1 unit | 1CC | 9.300 |
| VL800/3VL6 | 800 | 320 ... 800 | 8 × $I_n$ | 1.5 ... 7 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL6780-1□□36-□□□□** | 1 | 1 unit | 1CC | 16.000 |
| VL1250/3VL7 | 1000 | 400 ... 1000 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL7710-1□□36-□□□□** | 1 | 1 unit | 1CC | 25.000 |
| | 1250 | 500 ... 1250 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL7712-1□□36-□□□□** | 1 | 1 unit | 1CC | 25.000 |
| VL1600/3VL8[2)] | 1600 | 640 ... 1600 | 9 × $I_n$ | 1.5 ... 8 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL8716-1□□30-□□□□** | 1 | 1 unit | 1CC | 31.300 |

| | |
|---|---|
| • Without communication preparation | **SH** |
| • With communication preparation | **MH** |

1) **When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

2) Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/207.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".



* You can order this quantity or a multiple thereof.

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| B | 3VL2706-2□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 | B | 3VL2706-3□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| B | 3VL2710-2□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 | B | 3VL2710-3□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| B | 3VL2716-2□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 | B | 3VL2716-3□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| B | 3VL3720-2□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.500 | B | 3VL3720-3□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| B | 3VL3725-2□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.500 | B | 3VL3725-3□□3□-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| B | 3VL4731-2□□36-□□□□ | | 1 | 1 unit | 1CC | 5.900 | B | 3VL4731-3□□36-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| B | 3VL4740-2□□36-□□□□ | | 1 | 1 unit | 1CC | 5.900 | B | 3VL4740-3□□36-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| B | 3VL5763-2□□36-□□□□ | | 1 | 1 unit | 1CC | 9.300 | B | 3VL5763-3□□36-□□□□ | | 1 | 1 unit | 1CC | 9.300 |
| B | 3VL6780-2□□36-□□□□ | | 1 | 1 unit | 1CC | 16.000 | B | 3VL6780-3□□36-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| B | 3VL7710-2□□36-□□□□ | | 1 | 1 unit | 1CC | 25.000 | B | 3VL7710-3□□36-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| B | 3VL7712-2□□36-□□□□ | | 1 | 1 unit | 1CC | 25.000 | B | 3VL7712-3□□36-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| B | 3VL8716-2□□30-□□□□ | | 1 | 1 unit | 1CC | 31.300 | B | 3VL8716-3□□30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |
| | **SH MH** | | | | | | | **SH MH** | | | | | |

*** You can order this quantity or a multiple thereof.**

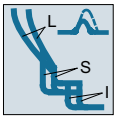
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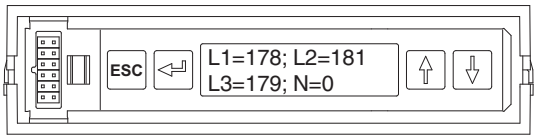
## 3-pole



### 3-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LI, LS, LSI



NSE0_00696



NSE0_02129

#### *LCD-ETU40, LI/LS/LSI function selectable*

With adjustable overcurrent releases, adjustable short-circuit releases, short-circuit delay ($t_{sd}$ = 0 to 0.5 s)

| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "L" $I_R$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | S function short-circuit protection (short-time delayed) S | DT | $I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N (N) See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | A | | | | | | | kg |
| VL160/3VL2 | 63 | 25 ... 63 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | | 3VL2706-1UH3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 40 ... 100 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | | 3VL2710-1UH3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 160 | 64 ... 160 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | | 3VL2716-1UH3□-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| VL250/3VL3 | 200 | 80 ... 200 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | | 3VL3720-1UH3□-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 100 ... 250 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | | 3VL3725-1UH3□-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | | Connection type can be selected by assignment of the 12th position of the Article No. | | | | | | | | | |
| | | • Connection with box terminal | | | | 3 | | | | | |
| | | • Connection with screw terminal[1)] | | | | 6 | | | | | |
| VL400/3VL4 | 315 | 128 ... 315 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | | 3VL4731-1UH36-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 400 | 160 ... 400 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | | 3VL4740-1UH36-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| VL630/3VL5 | 630 | 252 ... 630 | 1.25 ... 10 × $I_n$ | 1.5 ... 9 × $I_R$ | | 3VL5763-1UH36-□□□□ | | 1 | 1 unit | 1CC | 9.300 |
| VL800/3VL6 | 800 | 320 ... 800 | 1.25 ... 8 × $I_n$ | 1.5 ... 7 × $I_R$ | | 3VL6780-1UH36-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| VL1250/3VL7 | 1000 | 400 ... 1000 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | | 3VL7710-1UH36-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 1250 | 500 ... 1250 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | | 3VL7712-1UH36-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| VL1600/3VL8[2)] | 1600 | 640 ... 1600 | 1.25 ... 9 × $I_n$ | 1.5 ... 8 × $I_R$ | | 3VL8716-1UH30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |

**1) When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

2) Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.



*** You can order this quantity or a multiple thereof.**

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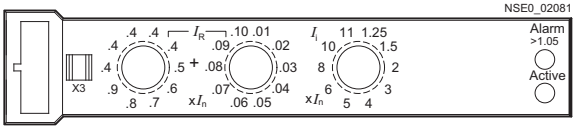
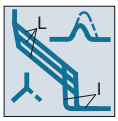
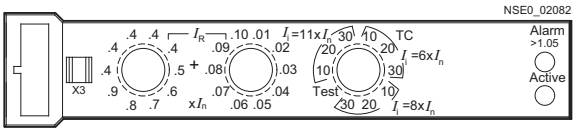


| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2706-2UH3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2706-3UH3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2710-2UH3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2710-3UH3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2716-2UH3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2716-3UH3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL3720-2UH3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3720-3UH3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3725-2UH3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3725-3UH3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | **3VL4731-2UH36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4731-3UH36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4740-2UH36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4740-3UH36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL5763-2UH36-□□□□** | | 1 | 1 unit | 1CC | 9.300 | | **3VL5763-3UH36-□□□□** | | 1 | 1 unit | 1CC | 9.300 |
| | **3VL6780-2UH36-□□□□** | | 1 | 1 unit | 1CC | 16.000 | | **3VL6780-3UH36-□□□□** | | 1 | 1 unit | 1CC | 16.000 |
| | **3VL7710-2UH36-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7710-3UH36-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL7712-2UH36-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7712-3UH36-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL8716-2UH30-□□□□** | | 1 | 1 unit | 1CC | 31.300 | | **3VL8716-3UH30-□□□□** | | 1 | 1 unit | 1CC | 31.300 |

*** You can order this quantity or a multiple thereof.**

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| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent releases "**L**" $I_R$ | Operating current of the instantaneous short-circuit protection "**I**" $I_i$ | DT | $I_{cu}$ **up to 55 kA at 415 V, standard breaking capacity N** See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | | | | | | | kg |
| **3-pole, fixed-mounted, for motor protection, 63 A to 500 A, Electronic Trip Units LI** | | | | | | | | | | |
| |  NSE0_00943 |  NSE0_02081 | | | | | | | | |
| ***ETU10M, LI function***[1] With thermal image, with non-adjustable trip class $t_C$ = 10, with phase failure sensitivity 40 % $I_R$ | | | | | | | | | | |
| VL160/3VL2 | 63 | 25 ... 63 | 1.25 ... 11 × $I_n$ | | **3VL2706-1□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 40 ... 100 | 1.25 ... 11 × $I_n$ | | **3VL2710-1□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | 160 | 64 ... 160 | 1.25 ... 11 × $I_n$ | | **3VL2716-1□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| VL250/3VL3 | 200 | 80 ... 200 | 1.25 ... 11 × $I_n$ | | **3VL3720-1□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 100 ... 250 | 1.25 ... 11 × $I_n$ | | **3VL3725-1□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| Connection type can be selected by assignment of the 12th position of the Article No. | | | | | | | | | | |
| • Connection with box terminal | | | | | **3** | | | | | |
| • Connection with screw terminal[2] | | | | | **6** | | | | | |
| VL400/3VL4 | 315 | 125 ... 315 | 1.25 ... 11 × $I_n$ | | **3VL4731-1□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| VL630/3VL5 | 500 | 200 ... 500 | 1.25 ... 12.5 × $I_n$ | | **3VL5750-1□□36-□□□□** | | 1 | 1 unit | 1CC | 9.300 |
| • Without communication preparation | | | | | **SP** | | | | | |
| • With communication preparation | | | | | **MP** | | | | | |
| |  NSE0_01419 |  NSE0_02082 | | | | | | | | |
| ***ETU30M, LI function***[1] With thermal image, with adjustable trip class $t_C$ = 10, 20, 30, with phase failure sensitivity 40 % $I_R$ | | | | | | | | | | |
| VL160/3VL2 | 63 | 25 ... 63 | 6/8/11 × $I_n$ | | **3VL2706-1□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 40 ... 100 | 6/8/11 × $I_n$ | | **3VL2710-1□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | 160 | 64 ... 160 | 6/8/11 × $I_n$ | | **3VL2716-1□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| VL250/3VL3 | 200 | 80 ... 200 | 6/8/11 × $I_n$ | | **3VL3720-1□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 100 ... 250 | 6/8/11 × $I_n$ | | **3VL3725-1□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| Connection type can be selected by assignment of the 12th position of the Article No. | | | | | | | | | | |
| • Connection with box terminal | | | | | **3** | | | | | |
| • Connection with screw terminal[2] | | | | | **6** | | | | | |
| VL400/3VL4 | 315 | 125 ... 315 | 6/8/11 × $I_n$ | | **3VL4731-1□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| VL630/3VL5 | 500 | 200 ... 500 | 6/8/12.5 × $I_n$ | | **3VL5750-1□□36-□□□□** | | 1 | 1 unit | 1CC | 9.300 |
| • Without communication preparation | | | | | **SS** | | | | | |
| • With communication preparation | | | | | **MS** | | | | | |
| • Marine engineering-certified LRS, DNV, GL and BV (not communication-ready) | | | | | **LS** | | | | | |

Communication:

- For accessories, see page 2/207.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

[1] For use of 3VL molded case circuit breakers with an energy-efficient IE3 motor, you are advised to use a contactor for operational switching of the motor; see also page 2/13.

[2] **When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**



*** You can order this quantity or a multiple thereof.**

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2706-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2706-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2710-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2710-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2716-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2716-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL3720-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3720-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3725-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3725-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | **3VL4731-2□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4731-3□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL5750-2□□36-□□□□** | | 1 | 1 unit | 1CC | 9.300 | | **3VL5750-3□□36-□□□□** | | 1 | 1 unit | 1CC | 9.300 |
| | **SP MP** | | | | | | | **SP MP** | | | | | |

| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2706-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2706-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2710-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2710-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2716-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2716-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL3720-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3720-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3725-2□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3725-3□□3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | **3VL4731-2□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4731-3□□36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL5750-2□□36-□□□□** | | 1 | 1 unit | 1CC | 9.300 | | **3VL5750-3□□36-□□□□** | | 1 | 1 unit | 1CC | 9.300 |
| | **SS MS LS** | | | | | | | **SS MS LS** | | | | | |

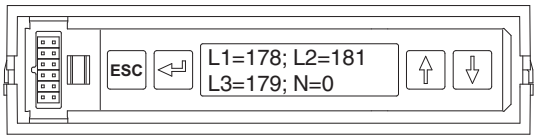
*** You can order this quantity or a multiple thereof.**

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## 3-pole

| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "**L**" $I_R$ | Operating current of the instantaneous short-circuit protection "**I**" $I_i$ | DT | $I_{cu}$ **up to 55 kA at 415 V, standard breaking capacity N** See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | | | | | | | kg |
| **3-pole, fixed-mounted, for motor protection, 63 A to 500 A, Electronic Trip Units LI** | | | | | | | | | | |
|  NSE0_01419 | | | | | | | | | | |
|   NSE0_02129 | | | | | | | | | | |
| ***LCD-ETU40M, LI function***[1] With thermal image, with adjustable trip class $t_C$ = 5, 10, 15, 20, 30, phase failure sensitivity adjustable in steps 5 ... 50 % $I_R$ | | | | | | | | | | |
| VL160/3VL2 | 63 | 25 ... 63 | 1.25 ... 11 × $I_n$ | | **3VL2706-1UP3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 40 ... 100 | 1.25 ... 11 × $I_n$ | | **3VL2710-1UP3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | 160 | 64 ... 160 | 1.25 ... 11 × $I_n$ | | **3VL2716-1UP3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| VL250/3VL3 | 200 | 80 ... 200 | 1.25 ... 11 × $I_n$ | | **3VL3720-1UP3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 100 ... 250 | 1.25 ... 11 × $I_n$ | | **3VL3725-1UP3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| Connection type can be selected by assignment of the 12th position of the Article No. | | | | | | | | | | |
| • Connection with box terminal | | | | | **3** | | | | | |
| • Connection with screw terminal[2] | | | | | **6** | | | | | |
| VL400/3VL4 | 315 | 128 ... 315 | 1.25 ... 11 × $I_n$ | | **3VL4731-1UP36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| VL630/3VL5 | 500 | 250 ... 500 | 1.25 ... 12.5 × $I_n$ | | **3VL5750-1UP36-□□□□** | | 1 | 1 unit | 1CC | 9.300 |

[1] For use of 3VL molded case circuit breakers with an energy-efficient IE3 motor, you are advised to use a contactor for operational switching of the motor; see also page 2/13.

[2] **When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**



* You can order this quantity or a multiple thereof.

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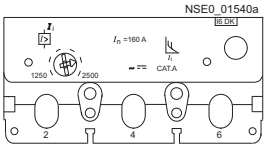
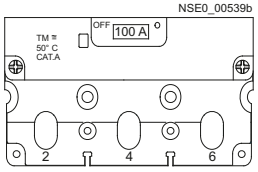


| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2706-2UP3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2706-3UP3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2710-2UP3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2710-3UP3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2716-2UP3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2716-3UP3□-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL3720-2UP3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3720-3UP3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3725-2UP3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3725-3UP3□-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | **3VL4731-2UP36-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4731-3UP36-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL5750-2UP36-□□□□** | | 1 | 1 unit | 1CC | 9.300 | | **3VL5750-3UP36-□□□□** | | 1 | 1 unit | 1CC | 9.300 |

*** You can order this quantity or a multiple thereof.**

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| Type | Rated current $I_n$ | Operating current of the instantaneous short-circuit releases "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N (N) See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|
| | A | | | | | | | | kg |
| **3-pole, fixed-mounted, for starter protection, 63 A to 500 A, magnetic trip unit I** | | | | | | | | | |
|  NSE0_00707 |  NSE0_01540a | | | | | | | | |
| ***Starter protection, M, I function***[1] Without thermal overcurrent release, with adjustable short-circuit release | | | | | | | | | |
| VL160/3VL2 | 63 | 450 ... 900 | | 3VL2706-1DK3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 100 | 750 ... 1500 | | 3VL2710-1DK3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 160 | 1250 ... 2500 | | 3VL2716-1DK3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| VL250/3VL3 | 250 | 1750 ... 3500 | | 3VL3725-1DK3□-□□□□ | | 1 | 1 unit | 1CC | 2.300 |
| | Connection type can be selected by assignment of the 12th position of the Article No. | | | | | | | | |
| | • Connection with box terminal | | | 3 | | | | | |
| | • Connection with screw terminal[2] | | | 6 | | | | | |
| VL400/3VL4 | 200 | 1250 ... 2500 | | 3VL4720-1DK36-□□□□ | | 1 | 1 unit | 1CC | 5.700 |
| | 250 | 2000 ... 4000 | | 3VL4725-1DK36-□□□□ | | 1 | 1 unit | 1CC | 5.700 |
| | 315 | 2000 ... 4000 | | 3VL4731-1DK36-□□□□ | | 1 | 1 unit | 1CC | 5.700 |
| VL630/3VL5 | 315 | 2000 ... 4000 | | 3VL5731-1DK36-□□□□ | | 1 | 1 unit | 1CC | 9.000 |
| | 500 | 3250 ... 6300 | | 3VL5750-1DK36-□□□□ | | 1 | 1 unit | 1CC | 9.000 |
| **3-pole, fixed-mounted, for safe disconnection, 100 A to 1600 A, magnetic trip unit I** | | | | | | | | | |
|  NSE0_00708 |  NSE0_00539b | | | | | | | | |
| ***Non-automatic molded case circuit breakers***[3]***, I function*** Without thermal overcurrent release, with non-adjustable short-circuit release (for intrinsic protection only) | | | | | | | | | |
| VL160X/3VL1 | 100 | 1800 | | 3VL1710-1DE3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| | 160 | 1800 | | 3VL1716-1DE3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 |
| VL160/3VL2 | 100 | 2500 | | 3VL2710-1DE3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 160 | 2500 | | 3VL2716-1DE3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| VL250/3VL3 | 250 | 3500 | | 3VL3725-1DE3□-□□□□ | | 1 | 1 unit | 1CC | 2.300 |
| | Connection type can be selected by assignment of the 12th position of the Article No. | | | | | | | | |
| | • Connection with box terminal | | | 3 | | | | | |
| | • Connection with screw terminal not in conjunction with RCD module at 3VL1[2] | | | 6 | | | | | |
| VL400/3VL4 | 400 | 4000 | | 3VL4740-1DE36-□□□□ | | 1 | 1 unit | 1CC | 5.700 |
| VL630/3VL5 | 630 | 6300 | | 3VL5763-1DE36-□□□□ | | 1 | 1 unit | 1CC | 9.000 |
| VL800/3VL6 | 800 | 6500 | | 3VL6780-1DE36-□□□□ | | 1 | 1 unit | 1CC | 15.700 |
| VL1250/3VL7 | 1250 | 12000 | | 3VL7712-1DE36-□□□□ | | 1 | 1 unit | 1CC | 23.500 |
| VL1600/3VL8[4] | 1600 | 14400 | | 3VL8716-1DE30-□□□□ | | 1 | 1 unit | 1CC | 29.800 |

For further versions, including for short-circuit and ground fault protection, see pages 2/128 to 2/144.

1) For use of 3VL molded case circuit breakers with an energy-efficient IE3 motor, you are advised to use a contactor for operational switching of the motor; see also page 2/122.

**2) When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

3) See chapter "Switch Disconnectors". 3K. switch disconnectors are also available with rear-mounting operating mechanism and leading contacts.

4) Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.



* You can order this quantity or a multiple thereof.

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | |
| | 3VL2706-2DK3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 | | 3VL2706-3DK3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 | |
| | 3VL2710-2DK3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 | | 3VL2710-3DK3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 | |
| | 3VL2716-2DK3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 | | 3VL2716-3DK3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 | |
| | 3VL3725-2DK3□-□□□□ | | 1 | 1 unit | 1CC | 2.300 | | 3VL3725-3DK3□-□□□□ | | 1 | 1 unit | 1CC | 2.300 | |
| | 3<br>6 | | | | | | | 3<br>6 | | | | | | |
| | 3VL4720-2DK36-□□□□ | | 1 | 1 unit | 1CC | 5.700 | | 3VL4720-3DK36-□□□□ | | 1 | 1 unit | 1CC | 5.700 | |
| | 3VL4725-2DK36-□□□□ | | 1 | 1 unit | 1CC | 5.700 | | 3VL4725-3DK36-□□□□ | | 1 | 1 unit | 1CC | 5.700 | |
| | 3VL4731-2DK36-□□□□ | | 1 | 1 unit | 1CC | 5.700 | | 3VL4731-3DK36-□□□□ | | 1 | 1 unit | 1CC | 5.700 | |
| | 3VL5731-2DK36-□□□□ | | 1 | 1 unit | 1CC | 9.000 | | 3VL5731-3DK36-□□□□ | | 1 | 1 unit | 1CC | 9.000 | |
| | 3VL5750-2DK36-□□□□ | | 1 | 1 unit | 1CC | 9.000 | | 3VL5750-3DK36-□□□□ | | 1 | 1 unit | 1CC | 9.000 | |
| | 3VL1710-2DE3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | | |
| | 3VL1716-2DE3□-□□□□ | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | | |
| | 3VL2710-2DE3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 | | 3VL2710-3DE3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 | |
| | 3VL2716-2DE3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 | | 3VL2716-3DE3□-□□□□ | | 1 | 1 unit | 1CC | 2.200 | |
| | 3VL3725-2DE3□-□□□□ | | 1 | 1 unit | 1CC | 2.300 | | 3VL3725-3DE3□-□□□□ | | 1 | 1 unit | 1CC | 2.300 | |
| | 3<br>6 | | | | | | | 3<br>6 | | | | | | |
| | 3VL4740-2DE36-□□□□ | | 1 | 1 unit | 1CC | 5.700 | | 3VL4740-3DE36-□□□□ | | 1 | 1 unit | 1CC | 5.700 | |
| | 3VL5763-2DE36-□□□□ | | 1 | 1 unit | 1CC | 9.000 | | 3VL5763-3DE36-□□□□ | | 1 | 1 unit | 1CC | 9.000 | |
| | 3VL6780-2DE36-□□□□ | | 1 | 1 unit | 1CC | 15.700 | | 3VL6780-3DE36-□□□□ | | 1 | 1 unit | 1CC | 15.700 | |
| | 3VL7712-2DE36-□□□□ | | 1 | 1 unit | 1CC | 23.500 | | 3VL7712-3DE36-□□□□ | | 1 | 1 unit | 1CC | 23.500 | |
| | 3VL8716-2DE30-□□□□ | | 1 | 1 unit | 1CC | 29.800 | | 3VL8716-3DE30-□□□□ | | 1 | 1 unit | 1CC | 29.800 | |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

### 3-pole

| Article No. supplement (for complete Article No., see pages 2/128 to 2/144) **3VL7 ..-. □□3.-...** Trip unit | | Breaking capacity | Type **VL160**[1] 3VL2 | | | **VL250**[1] 3VL3 | | **VL400** 3VL4 | | **VL630** 3VL5 | | **VL800** 3VL6 | **VL1250** 3VL7 | | **VL1600** 3VL8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Rated current $I_n$ | | | | | | | | | | | | |
| | | | 63 A | 100 A | 160 A | 200 A | 250 A | 315 A | 400 A | 500 A | 630 A | 800 A | 1000 A | 1250 A | 1600 A |
| | | | **Price** | | | | | | | | | | | | |
| ETU10 | **SB** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU10 | **MB** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU10 | **LB** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU12 | **SL** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU12 | **ML** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU12 | **SF** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU12 | **MF** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU20 | **SE** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU20 | **ME** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU20 | **LE** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU22 | **SG** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU22 | **MG** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU42 | **UL** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU42 | **UM** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU22 | **SH** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU22 | **MH** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU40 | **UH** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | ✓ | ✓ | ✓ | ✓ |

✓ Available

-- Not available

[1] **The basic price is reduced when the molded case circuit breaker is ordered with a flat screw terminal ".36-".**

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| Article No. supplement (for complete Article No. see pages 2/128 to 2/144) **3VL7 .. - .□□3.-....** Trip unit | | Breaking capacity | Type **VL160**[1] 3VL2 | | | **VL250**[1] 3VL3 | | **VL400** 3VL4 | | **VL630** 3VL5 | | **VL800** 3VL6 | **VL1250** 3VL7 | | **VL1600** 3VL8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Rated current $I_n$ | | | | | | | | | | | | |
| | | | 63 A | 100 A | 160 A | 200 A | 250 A | 315 A | 400 A | 500 A | 630 A | 800 A | 1000 A | 1250 A | 1600 A |
| | | | **Price** | | | | | | | | | | | | |
| ETU10M | **SP** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| ETU10M | **MP** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| ETU30M | **SS** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| ETU30M | **MS** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| ETU30M | **LS** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| ETU40M | **UP** | N | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| | | H | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |
| | | L | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | -- | ✓ | -- | -- | -- | -- | -- |

✓ Available

-- Not available

[1] **The basic price is reduced when the molded case circuit breaker is ordered with a flat screw terminal ".36-".**

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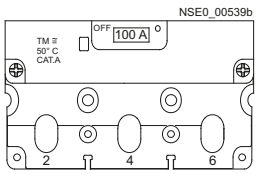


## Selection and ordering data

| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "**L**" $I_R$ | Operating current of the instantaneous short-circuit protection "**I**" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview". (N) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Article No. Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
| | A | A | A | | | | | | | kg |

### 4-pole, fixed-mounted, for line protection, 16 A to 630 A, thermal-magnetic overcurrent releases LI


NSE0_00695




***Line protection, TM, LI function***

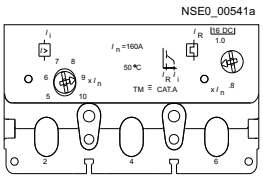
With non-adjustable thermal overcurrent releases, non-adjustable short-circuit releases, without overcurrent and short-circuit release in the 4th pole (N)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| VL160X/3VL1 | 16 | 16 | 300 | 3VL1796-1EH4□-□□□□ | 1 | 1 unit | 1CC | 2.300 |
| | 20 | 20 | 300 | 3VL1702-1EH4□-□□□□ | 1 | 1 unit | 1CC | 2.300 |
| | 25 | 25 | 300 | 3VL1725-1EH4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 32 | 32 | 300 | 3VL1703-1EH4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 40 | 40 | 600 | 3VL1704-1EH4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 50 | 50 | 600 | 3VL1705-1EH4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 63 | 63 | 600 | 3VL1706-1EH4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 80 | 80 | 1000 | 3VL1708-1EH4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 100 | 100 | 1000 | 3VL1710-1EH4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 125 | 125 | 1000 | 3VL1712-1EH4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 160 | 160 | 1500 | 3VL1716-1EH4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | 3 |
| • Connection with screw terminal not in conjunction with RCD module[1)] | 6 |


NSE0_00704




***Line protection, TM, LI function***

With adjustable thermal overcurrent releases, adjustable short-circuit releases, without overcurrent and short-circuit release in the 4th pole (N)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 50 | 40 ... 50 | 300 ... 600 | 3VL2705-1EJ4□-□□□□ | 1 | 1 unit | 1CC | 3.000 |
| | 63 | 50 ... 63 | 300 ... 600 | 3VL2706-1EJ4□-□□□□ | 1 | 1 unit | 1CC | 3.000 |
| | 80 | 63 ... 80 | 400 ... 800 | 3VL2708-1EJ4□-□□□□ | 1 | 1 unit | 1CC | 3.000 |
| | 100 | 80 ... 100 | 500 ... 1000 | 3VL2710-1EJ4□-□□□□ | 1 | 1 unit | 1CC | 3.000 |
| | 125 | 100 ... 125 | 625 ... 1250 | 3VL2712-1EJ4□-□□□□ | 1 | 1 unit | 1CC | 3.000 |
| | 160 | 125 ... 160 | 800 ... 1600 | 3VL2716-1EJ4□-□□□□ | 1 | 1 unit | 1CC | 3.000 |
| VL250/3VL3 | 200 | 160 ... 200 | 1000 ... 2000 | 3VL3720-1EJ4□-□□□□ | 1 | 1 unit | 1CC | 3.200 |
| | 250 | 200 ... 250 | 1250 ... 2500 | 3VL3725-1EJ4□-□□□□ | 1 | 1 unit | 1CC | 3.200 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | 3 |
| • Connection with flat screw terminal[1)] | 6 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| VL400/3VL4 | 200 | 160 ... 200 | 1000 ... 2000 | 3VL4720-1EJ46-□□□□ | 1 | 1 unit | 1CC | 7.400 |
| | 250 | 200 ... 250 | 1250 ... 2500 | 3VL4725-1EJ46-□□□□ | 1 | 1 unit | 1CC | 7.400 |
| | 315 | 250 ... 315 | 1575 ... 3150 | 3VL4731-1EJ46-□□□□ | 1 | 1 unit | 1CC | 7.400 |
| | 400 | 320 ... 400 | 2000 ... 4000 | 3VL4740-1EJ46-□□□□ | 1 | 1 unit | 1CC | 7.400 |
| VL630/3VL5 | 315 | 250 ... 315 | 1575 ... 3150 | 3VL5731-1EJ46-□□□□ | 1 | 1 unit | 1CC | 11.200 |
| | 400 | 320 ... 400 | 2000 ... 4000 | 3VL5740-1EJ46-□□□□ | 1 | 1 unit | 1CC | 11.200 |
| | 500 | 400 ... 500 | 2500 ... 5000 | 3VL5750-1EJ46-□□□□ | 1 | 1 unit | 1CC | 11.200 |
| | 630 | 500 ... 630 | 3150 ... 6300 | 3VL5763-1EJ46-□□□□ | 1 | 1 unit | 1CC | 11.200 |

**1) When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**



*** You can order this quantity or a multiple thereof.**

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No.<br>Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No.<br>Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL1796-2EH4□-□□□□** | | 1 | 1 unit | 1CC | 2.300 | | **--** | | | | | |
| | **3VL1702-2EH4□-□□□□** | | 1 | 1 unit | 1CC | 2.300 | | **--** | | | | | |
| | **3VL1725-2EH4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **--** | | | | | |
| | **3VL1703-2EH4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **--** | | | | | |
| | **3VL1704-2EH4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **--** | | | | | |
| | **3VL1705-2EH4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **--** | | | | | |
| | **3VL1706-2EH4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **--** | | | | | |
| | **3VL1708-2EH4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **--** | | | | | |
| | **3VL1710-2EH4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **--** | | | | | |
| | **3VL1712-2EH4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **--** | | | | | |
| | **3VL1716-2EH4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **--** | | | | | |
| | **3 6** | | | | | | | | | | | | |
| | **3VL2705-2EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2705-3EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL2706-2EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2706-3EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL2708-2EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2708-3EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL2710-2EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2710-3EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL2712-2EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2712-3EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL2716-2EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2716-3EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL3720-2EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.200 | | **3VL3720-3EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.200 |
| | **3VL3725-2EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.200 | | **3VL3725-3EJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.200 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | **3VL4720-2EJ46-□□□□** | | 1 | 1 unit | 1CC | 7.400 | | **3VL4720-3EJ46-□□□□** | | 1 | 1 unit | 1CC | 7.400 |
| | **3VL4725-2EJ46-□□□□** | | 1 | 1 unit | 1CC | 7.400 | | **3VL4725-3EJ46-□□□□** | | 1 | 1 unit | 1CC | 7.400 |
| | **3VL4731-2EJ46-□□□□** | | 1 | 1 unit | 1CC | 7.400 | | **3VL4731-3EJ46-□□□□** | | 1 | 1 unit | 1CC | 7.400 |
| | **3VL4740-2EJ46-□□□□** | | 1 | 1 unit | 1CC | 7.400 | | **3VL4740-3EJ46-□□□□** | | 1 | 1 unit | 1CC | 7.400 |
| | **3VL5731-2EJ46-□□□□** | | 1 | 1 unit | 1CC | 11.200 | | **3VL5731-3EJ46-□□□□** | | 1 | 1 unit | 1CC | 11.200 |
| | **3VL5740-2EJ46-□□□□** | | 1 | 1 unit | 1CC | 11.200 | | **3VL5740-3EJ46-□□□□** | | 1 | 1 unit | 1CC | 11.200 |
| | **3VL5750-2EJ46-□□□□** | | 1 | 1 unit | 1CC | 11.200 | | **3VL5750-3EJ46-□□□□** | | 1 | 1 unit | 1CC | 11.200 |
| | **3VL5763-2EJ46-□□□□** | | 1 | 1 unit | 1CC | 11.200 | | **3VL5763-3EJ46-□□□□** | | 1 | 1 unit | 1CC | 11.200 |

*** You can order this quantity or a multiple thereof.**

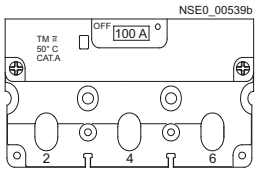
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| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "L" $I_R$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | | | | | | | kg |

## 4-pole, fixed-mounted, for line protection, 16 A to 160 A, thermal-magnetic overcurrent releases LIN


NSE0_00695




### *Line protection, TM, LIN function*

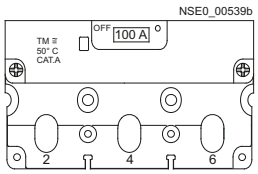
With non-adjustable thermal overcurrent releases, non-adjustable short-circuit releases, with "N" overcurrent and short-circuit release
N protection = 100 %

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| VL160X/3VL1 | 16 | 16 | 300 | 3VL1796-1EA4□-□□□□ | 1 | 1 unit | 1CC | 2.300 |
| | 20 | 20 | 300 | 3VL1702-1EA4□-□□□□ | 1 | 1 unit | 1CC | 2.300 |
| | 25 | 25 | 300 | 3VL1725-1EA4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 32 | 32 | 300 | 3VL1703-1EA4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 40 | 40 | 600 | 3VL1704-1EA4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 50 | 50 | 600 | 3VL1705-1EA4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 63 | 63 | 600 | 3VL1706-1EA4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 80 | 80 | 1000 | 3VL1708-1EA4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 100 | 100 | 1000 | 3VL1710-1EA4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 125 | 125 | 1000 | 3VL1712-1EL4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 160 | 160 | 1500 | 3VL1716-1EL4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | 3 |
| • Connection with screw terminal not in conjunction with RCD module[1)] | 6 |


NSE0_00695




### *Line protection, TM, LIN function*

With non-adjustable thermal overcurrent releases, non-adjustable short-circuit releases, with "N" overcurrent and short-circuit release
N protection = 60 %

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| VL160X/3VL1 | 125 | 125 | 1000 | 3VL1712-1EA4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 160 | 160 | 1500 | 3VL1716-1EA4□-□□□□ | 1 | 1 unit | 1CC | 2.500 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | 3 |
| • Connection with screw terminal not in conjunction with RCD module[1)] | 6 |

[1)] **When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**



*** You can order this quantity or a multiple thereof.**

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | |
| | **3VL1796-2EA4□-□□□□** | | 1 | 1 unit | 1CC | 2.300 | | -- | | | | | | |
| | **3VL1702-2EA4□-□□□□** | | 1 | 1 unit | 1CC | 2.300 | | -- | | | | | | |
| | **3VL1725-2EA4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | -- | | | | | | |
| | **3VL1703-2EA4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | -- | | | | | | |
| | **3VL1704-2EA4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | -- | | | | | | |
| | **3VL1705-2EA4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | -- | | | | | | |
| | **3VL1706-2EA4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | -- | | | | | | |
| | **3VL1708-2EA4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | -- | | | | | | |
| | **3VL1710-2EA4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | -- | | | | | | |
| | **3VL1712-2EL4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | -- | | | | | | |
| | **3VL1716-2EL4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | -- | | | | | | |
| | **3** **6** | | | | | | | | | | | | | |
| | **3VL1712-2EA4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | -- | | | | | | |
| | **3VL1716-2EA4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | -- | | | | | | |
| | **3** **6** | | | | | | | | | | | | | |

*** You can order this quantity or a multiple thereof.**

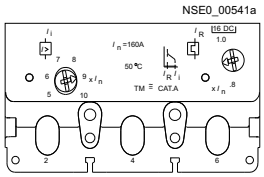
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| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "L" $I_R$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | (N) Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | | | | | | | |

### 4-pole, fixed-mounted, for line protection, 16 A to 630 A, thermal-magnetic overcurrent releases LIN




#### *Line protection, TM, LIN function*

With adjustable thermal overcurrent releases, adjustable short-circuit releases, with "N" overcurrent and short-circuit release
N protection = 100 %

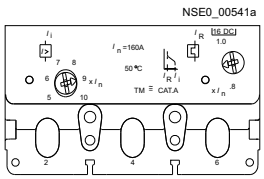
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 50 | 40 ... 50 | 300 ... 600 | 3VL2705-1EM4□-□□□□ | 1 | 1 unit | 1CC | 3.000 |
| | 63 | 50 ... 63 | 300 ... 600 | 3VL2706-1EM4□-□□□□ | 1 | 1 unit | 1CC | 3.000 |
| | 80 | 63 ... 80 | 400 ... 800 | 3VL2708-1EM4□-□□□□ | 1 | 1 unit | 1CC | 3.000 |
| | 100 | 80 ... 100 | 500 ... 1000 | 3VL2710-1EM4□-□□□□ | 1 | 1 unit | 1CC | 3.000 |
| | 125 | 100 ... 125 | 625 ... 1250 | 3VL2712-1EM4□-□□□□ | 1 | 1 unit | 1CC | 3.000 |
| | 160 | 125 ... 160 | 800 ... 1600 | 3VL2716-1EM4□-□□□□ | 1 | 1 unit | 1CC | 3.000 |
| VL250/3VL3 | 200 | 160 ... 200 | 1000 ... 2000 | 3VL3720-1EM4□-□□□□ | 1 | 1 unit | 1CC | 3.200 |
| | 250 | 200 ... 250 | 1250 ... 2500 | 3VL3725-1EM4□-□□□□ | 1 | 1 unit | 1CC | 3.200 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | 3 |
| • Connection with flat screw terminal[1)] | 6 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| VL400/3VL4 | 200 | 160 ... 200 | 1000 ... 2000 | 3VL4720-1EM46-□□□□ | 1 | 1 unit | 1CC | 7.400 |
| | 250 | 200 ... 250 | 1250 ... 2500 | 3VL4725-1EM46-□□□□ | 1 | 1 unit | 1CC | 7.400 |
| | 315 | 250 ... 315 | 1575 ... 3150 | 3VL4731-1EM46-□□□□ | 1 | 1 unit | 1CC | 7.400 |
| | 400 | 320 ... 400 | 2000 ... 4000 | 3VL4740-1EM46-□□□□ | 1 | 1 unit | 1CC | 7.400 |
| VL630/3VL5 | 315 | 250 ... 315 | 1575 ... 3150 | 3VL5731-1EM46-□□□□ | 1 | 1 unit | 1CC | 11.200 |
| | 400 | 320 ... 400 | 2000 ... 4000 | 3VL5740-1EM46-□□□□ | 1 | 1 unit | 1CC | 11.200 |
| | 500 | 400 ... 500 | 2500 ... 5000 | 3VL5750-1EM46-□□□□ | 1 | 1 unit | 1CC | 11.200 |
| | 630 | 500 ... 630 | 3150 ... 6300 | 3VL5763-1EM46-□□□□ | 1 | 1 unit | 1CC | 11.200 |




#### *Line protection, TM, LIN function*

With adjustable thermal overcurrent releases, adjustable short-circuit releases, with "N" overcurrent and short-circuit release
N protection = 60 %

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 125 | 100 ... 125 | 625 ... 1250 | 3VL2712-1EC4□-□□□□ | 1 | 1 unit | 1CC | 3.000 |
| | 160 | 125 ... 160 | 800 ... 1600 | 3VL2716-1EC4□-□□□□ | 1 | 1 unit | 1CC | 3.000 |
| VL250/3VL3 | 200 | 160 ... 200 | 1000 ... 2000 | 3VL3720-1EC4□-□□□□ | 1 | 1 unit | 1CC | 3.200 |
| | 250 | 200 ... 250 | 1250 ... 2500 | 3VL3725-1EC4□-□□□□ | 1 | 1 unit | 1CC | 3.200 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | 3 |
| • Connection with flat screw terminal[1)] | 6 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| VL400/3VL4 | 200 | 160 ... 200 | 1000 ... 2000 | 3VL4720-1EC46-□□□□ | 1 | 1 unit | 1CC | 7.400 |
| | 250 | 200 ... 250 | 1250 ... 2500 | 3VL4725-1EC46-□□□□ | 1 | 1 unit | 1CC | 7.400 |
| | 315 | 250 ... 315 | 1575 ... 3150 | 3VL4731-1EC46-□□□□ | 1 | 1 unit | 1CC | 7.400 |
| | 400 | 320 ... 400 | 2000 ... 4000 | 3VL4740-1EC46-□□□□ | 1 | 1 unit | 1CC | 7.400 |
| VL630/3VL5 | 315 | 250 ... 315 | 1575 ... 3150 | 3VL5731-1EC46-□□□□ | 1 | 1 unit | 1CC | 11.200 |
| | 400 | 320 ... 400 | 2000 ... 4000 | 3VL5740-1EC46-□□□□ | 1 | 1 unit | 1CC | 11.200 |
| | 500 | 400 ... 500 | 2500 ... 5000 | 3VL5750-1EC46-□□□□ | 1 | 1 unit | 1CC | 11.200 |
| | 630 | 500 ... 630 | 3150 ... 6300 | 3VL5763-1EC46-□□□□ | 1 | 1 unit | 1CC | 11.200 |

**1) When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**



*** You can order this quantity or a multiple thereof.**

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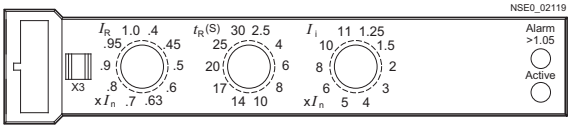
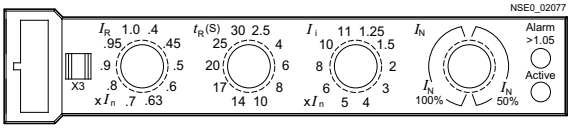


| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2705-2EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2705-3EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL2706-2EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2706-3EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL2708-2EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2708-3EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL2710-2EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2710-3EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL2712-2EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2712-3EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL2716-2EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2716-3EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL3720-2EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.200 | | **3VL3720-3EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.200 |
| | **3VL3725-2EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.200 | | **3VL3725-3EM4□-□□□□** | | 1 | 1 unit | 1CC | 3.200 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | **3VL4720-2EM46-□□□□** | | 1 | 1 unit | 1CC | 7.400 | | **3VL4720-3EM46-□□□□** | | 1 | 1 unit | 1CC | 7.400 |
| | **3VL4725-2EM46-□□□□** | | 1 | 1 unit | 1CC | 7.400 | | **3VL4725-3EM46-□□□□** | | 1 | 1 unit | 1CC | 7.400 |
| | **3VL4731-2EM46-□□□□** | | 1 | 1 unit | 1CC | 7.400 | | **3VL4731-3EM46-□□□□** | | 1 | 1 unit | 1CC | 7.400 |
| | **3VL4740-2EM46-□□□□** | | 1 | 1 unit | 1CC | 7.400 | | **3VL4740-3EM46-□□□□** | | 1 | 1 unit | 1CC | 7.400 |
| | **3VL5731-2EM46-□□□□** | | 1 | 1 unit | 1CC | 11.200 | | **3VL5731-3EM46-□□□□** | | 1 | 1 unit | 1CC | 11.200 |
| | **3VL5740-2EM46-□□□□** | | 1 | 1 unit | 1CC | 11.200 | | **3VL5740-3EM46-□□□□** | | 1 | 1 unit | 1CC | 11.200 |
| | **3VL5750-2EM46-□□□□** | | 1 | 1 unit | 1CC | 11.200 | | **3VL5750-3EM46-□□□□** | | 1 | 1 unit | 1CC | 11.200 |
| | **3VL5763-2EM46-□□□□** | | 1 | 1 unit | 1CC | 11.200 | | **3VL5763-3EM46-□□□□** | | 1 | 1 unit | 1CC | 11.200 |
| | **3VL2712-2EC4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2712-3EC4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL2716-2EC4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2716-3EC4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL3720-2EC4□-□□□□** | | 1 | 1 unit | 1CC | 3.200 | | **3VL3720-3EC4□-□□□□** | | 1 | 1 unit | 1CC | 3.200 |
| | **3VL3725-2EC4□-□□□□** | | 1 | 1 unit | 1CC | 3.200 | | **3VL3725-3EC4□-□□□□** | | 1 | 1 unit | 1CC | 3.200 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | **3VL4720-2EC46-□□□□** | | 1 | 1 unit | 1CC | 7.400 | | **3VL4720-3EC46-□□□□** | | 1 | 1 unit | 1CC | 7.400 |
| | **3VL4725-2EC46-□□□□** | | 1 | 1 unit | 1CC | 7.400 | | **3VL4725-3EC46-□□□□** | | 1 | 1 unit | 1CC | 7.400 |
| | **3VL4731-2EC46-□□□□** | | 1 | 1 unit | 1CC | 7.400 | | **3VL4731-3EC46-□□□□** | | 1 | 1 unit | 1CC | 7.400 |
| | **3VL4740-2EC46-□□□□** | | 1 | 1 unit | 1CC | 7.400 | | **3VL4740-3EC46-□□□□** | | 1 | 1 unit | 1CC | 7.400 |
| | **3VL5731-2EC46-□□□□** | | 1 | 1 unit | 1CC | 11.200 | | **3VL5731-3EC46-□□□□** | | 1 | 1 unit | 1CC | 11.200 |
| | **3VL5740-2EC46-□□□□** | | 1 | 1 unit | 1CC | 11.200 | | **3VL5740-3EC46-□□□□** | | 1 | 1 unit | 1CC | 11.200 |
| | **3VL5750-2EC46-□□□□** | | 1 | 1 unit | 1CC | 11.200 | | **3VL5750-3EC46-□□□□** | | 1 | 1 unit | 1CC | 11.200 |
| | **3VL5763-2EC46-□□□□** | | 1 | 1 unit | 1CC | 11.200 | | **3VL5763-3EC46-□□□□** | | 1 | 1 unit | 1CC | 11.200 |

*** You can order this quantity or a multiple thereof.**

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| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "**L**" $I_R$ | Operating current of the instantaneous short-circuit protection "**I**" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. (N) |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | | | | | | | kg |
| **4-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LI** | | | | | | | | | | |
|  NSE0_00691 |  NSE0_02119 | | | | | | | | | |
| ***ETU10, LI function*** | | | | | | | | | | |
| With adjustable overcurrent releases, adjustable short-circuit releases, without overcurrent and short-circuit release in the 4th pole (N) | | | | | | | | | | |
| VL160/3VL2 | 63 | 25 ... 63 | 1.25 ... 11 × $I_n$ | | **3VL2706-1□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 |
| | 100 | 40 ... 100 | 1.25 ... 11 × $I_n$ | | **3VL2710-1□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 |
| | 160 | 64 ... 160 | 1.25 ... 11 × $I_n$ | | **3VL2716-1□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 |
| VL250/3VL3 | 200 | 80 ... 200 | 1.25 ... 11 × $I_n$ | | **3VL3720-1□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.300 |
| | 250 | 100 ... 250 | 1.25 ... 11 × $I_n$ | | **3VL3725-1□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.300 |
| Connection type can be selected by assignment of the 12th position of the Article No. | | | | | | | | | | |
| • Connection with box terminal | | | | | **3** | | | | | |
| • Connection with flat screw terminal[1] | | | | | **6** | | | | | |
| VL400/3VL4 | 315 | 128 ... 315 | 1.25 ... 11 × $I_n$ | | **3VL4731-1□□46-□□□□** | | 1 | 1 unit | 1CC | 7.600 |
| | 400 | 160 ... 400 | 1.25 ... 11 × $I_n$ | | **3VL4740-1□□46-□□□□** | | 1 | 1 unit | 1CC | 7.600 |
| VL630/3VL5 | 630 | 252 ... 630 | 1.25 ... 10 × $I_n$ | | **3VL5763-1□□46-□□□□** | | 1 | 1 unit | 1CC | 11.700 |
| VL800/3VL6 | 800 | 320 ... 800 | 1.25 ... 8 × $I_n$ | | **3VL6780-1□□46-□□□□** | | 1 | 1 unit | 1CC | 20.500 |
| VL1250/3VL7 | 1000 | 400 ... 1000 | 1.25 ... 11 × $I_n$ | | **3VL7710-1□□46-□□□□** | | 1 | 1 unit | 1CC | 33.500 |
| | 1250 | 500 ... 1250 | 1.25 ... 11 × $I_n$ | | **3VL7712-1□□46-□□□□** | | 1 | 1 unit | 1CC | 33.500 |
| VL1600/3VL8[2] | 1600 | 640 ... 1600 | 1.25 ... 9 × $I_n$ | | **3VL8716-1□□40-□□□□** | | 1 | 1 unit | 1CC | 40.800 |
| • Without communication preparation | | | | | **TB** | | | | | |
| • With communication preparation | | | | | **NB** | | | | | |
| **4-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LIN** | | | | | | | | | | |
|  NSE0_00691 |  NSE0_02077 | | | | | | | | | |
| ***ETU10, LIN function*** | | | | | | | | | | |
| With adjustable overcurrent releases, adjustable short-circuit releases with overcurrent and short-circuit release in the 4th pole (N) N protection = 50/100 % | | | | | | | | | | |
| VL160/3VL2 | 63 | 25 ... 63 | 1.25 ... 11 × $I_n$ | | **3VL2706-1□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 |
| | 100 | 40 ... 100 | 1.25 ... 11 × $I_n$ | | **3VL2710-1□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 |
| | 160 | 64 ... 160 | 1.25 ... 11 × $I_n$ | | **3VL2716-1□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 |
| VL250/3VL3 | 200 | 80 ... 200 | 1.25 ... 11 × $I_n$ | | **3VL3720-1□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.300 |
| | 250 | 100 ... 250 | 1.25 ... 11 × $I_n$ | | **3VL3725-1□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.300 |
| Connection type can be selected by assignment of the 12th position of the Article No. | | | | | | | | | | |
| • Connection with box terminal | | | | | **3** | | | | | |
| • Connection with flat screw terminal[1] | | | | | **6** | | | | | |
| VL400/3VL4 | 315 | 128 ... 315 | 1.25 ... 11 × $I_n$ | | **3VL4731-1□□46-□□□□** | | 1 | 1 unit | 1CC | 7.600 |
| | 400 | 160 ... 400 | 1.25 ... 11 × $I_n$ | | **3VL4740-1□□46-□□□□** | | 1 | 1 unit | 1CC | 7.600 |
| VL630/3VL5 | 630 | 252 ... 630 | 1.25 ... 10 × $I_n$ | | **3VL5763-1□□46-□□□□** | | 1 | 1 unit | 1CC | 11.700 |
| VL800/3VL6 | 800 | 320 ... 800 | 1.25 ... 8 × $I_n$ | | **3VL6780-1□□46-□□□□** | | 1 | 1 unit | 1CC | 20.500 |
| VL1250/3VL7 | 1000 | 400 ... 1000 | 1.25 ... 11 × $I_n$ | | **3VL7710-1□□46-□□□□** | | 1 | 1 unit | 1CC | 33.500 |
| | 1250 | 500 ... 1250 | 1.25 ... 11 × $I_n$ | | **3VL7712-1□□46-□□□□** | | 1 | 1 unit | 1CC | 33.500 |
| VL1600/3VL8[2] | 1600 | 640 ... 1600 | 1.25 ... 9 × $I_n$ | | **3VL8716-1□□40-□□□□** | | 1 | 1 unit | 1CC | 40.800 |
| • Without communication preparation | | | | | **TA** | | | | | |
| • With communication preparation | | | | | **NA** | | | | | |
| • Marine engineering-certified LRS, DNV, GL and BV (not communication-ready) | | | | | **LA** | | | | | |

**[1] When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

[2] Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.



* You can order this quantity or a multiple thereof.

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | 3VL2706-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2706-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL2710-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2710-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL2716-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2716-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL3720-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 | | 3VL3720-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 |
| | 3VL3725-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 | | 3VL3725-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | 3VL4731-2□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 | | 3VL4731-3□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 |
| | 3VL4740-2□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 | | 3VL4740-3□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 |
| | 3VL5763-2□□46-□□□□ | | 1 | 1 unit | 1CC | 11.700 | | 3VL5763-3□□46-□□□□ | | 1 | 1 unit | 1CC | 11.700 |
| | 3VL6780-2□□46-□□□□ | | 1 | 1 unit | 1CC | 20.500 | | 3VL6780-3□□46-□□□□ | | 1 | 1 unit | 1CC | 20.500 |
| | 3VL7710-2□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 | | 3VL7710-3□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 |
| | 3VL7712-2□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 | | 3VL7712-3□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 |
| | 3VL8716-2□□40-□□□□ | | 1 | 1 unit | 1CC | 40.800 | | 3VL8716-3□□40-□□□□ | | 1 | 1 unit | 1CC | 40.800 |
| | **TB NB** | | | | | | | **TB NB** | | | | | |

| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | 3VL2706-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2706-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL2710-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2710-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL2716-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2716-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL3720-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 | | 3VL3720-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 |
| | 3VL3725-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 | | 3VL3725-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | 3VL4731-2□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 | | 3VL4731-3□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 |
| | 3VL4740-2□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 | | 3VL4740-3□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 |
| | 3VL5763-2□□46-□□□□ | | 1 | 1 unit | 1CC | 11.700 | | 3VL5763-3□□46-□□□□ | | 1 | 1 unit | 1CC | 11.700 |
| | 3VL6780-2□□46-□□□□ | | 1 | 1 unit | 1CC | 20.500 | | 3VL6780-3□□46-□□□□ | | 1 | 1 unit | 1CC | 20.500 |
| | 3VL7710-2□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 | | 3VL7710-3□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 |
| | 3VL7712-2□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 | | 3VL7712-3□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 |
| | 3VL8716-2□□40-□□□□ | | 1 | 1 unit | 1CC | 40.800 | | 3VL8716-3□□40-□□□□ | | 1 | 1 unit | 1CC | 40.800 |
| | **TA NA LA** | | | | | | | **TA NA LA** | | | | | |

Communication:
- For accessories, see page 2/207.

- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

*** You can order this quantity or a multiple thereof.**

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## 4-pole

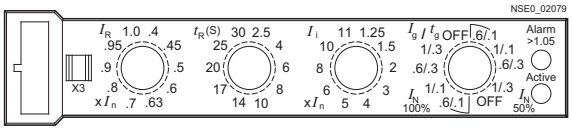


| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "**L**" $I_R$ | Operating current of the instantaneous short-circuit protection "**I**" $I_i$ | Ground-fault protection "**G**" $I_g$ | DT | $I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | A | | | | | | | kg |

### 4-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LING



NSE0_00693




***ETU12, LING function for 4-wire three-phase systems***

With adjustable overcurrent releases, adjustable short-circuit releases, vectorial summation current formation, ground-fault delay $t_g$ = 0.1 ... 0.3 s, ground-fault protection (G) can be switched off with overcurrent and short-circuit release in the 4th pole (N), N protection = 50/100 %

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 63 | 25 ... 63 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL2706-1□□4□-□□□□ | 1 | 1 unit | 1CC | 3.100 |
| | 100 | 40 ... 100 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL2710-1□□4□-□□□□ | 1 | 1 unit | 1CC | 3.100 |
| | 160 | 64 ... 160 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL2716-1□□4□-□□□□ | 1 | 1 unit | 1CC | 3.100 |
| VL250/3VL3 | 200 | 80 ... 200 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL3720-1□□4□-□□□□ | 1 | 1 unit | 1CC | 3.300 |
| | 250 | 100 ... 250 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL3725-1□□4□-□□□□ | 1 | 1 unit | 1CC | 3.300 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | **3** |
| • Connection with flat screw terminal[1)] | **6** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| VL400/3VL4 | 315 | 128 ... 315 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL4731-1□□46-□□□□ | 1 | 1 unit | 1CC | 7.600 |
| | 400 | 160 ... 400 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL4740-1□□46-□□□□ | 1 | 1 unit | 1CC | 7.600 |
| VL630/3VL5 | 630 | 252 ... 630 | 1.25 ... 10 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL5763-1□□46-□□□□ | 1 | 1 unit | 1CC | 11.700 |
| VL800/3VL6 | 800 | 320 ... 800 | 1.25 ... 8 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL6780-1□□46-□□□□ | 1 | 1 unit | 1CC | 20.500 |
| VL1250/3VL7 | 1000 | 400 ... 1000 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL7710-1□□46-□□□□ | 1 | 1 unit | 1CC | 33.500 |
| | 1250 | 500 ... 1250 | 1.25 ... 11 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL7712-1□□46-□□□□ | 1 | 1 unit | 1CC | 33.500 |
| VL1600/3VL8[2)] | 1600 | 640 ... 1600 | 1.25 ... 9 × $I_n$ | 0.6 ... 1 × $I_n$, OFF | 3VL8716-1□□40-□□□□ | 1 | 1 unit | 1CC | 40.800 |

| | |
|---|---|
| • Without communication preparation | **TN** |
| • With communication preparation | **NN** |

[1)] **When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

[2)] Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/207.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".



* You can order this quantity or a multiple thereof.

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2706-2□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 | | **3VL2706-3□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 |
| | **3VL2710-2□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 | | **3VL2710-3□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 |
| | **3VL2716-2□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 | | **3VL2716-3□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 |
| | **3VL3720-2□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.300 | | **3VL3720-3□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.300 |
| | **3VL3725-2□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.300 | | **3VL3725-3□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.300 |
| | **3<br>6** | | | | | | | **3<br>6** | | | | | |
| | **3VL4731-2□□46-□□□□** | | 1 | 1 unit | 1CC | 7.600 | | **3VL4731-3□□46-□□□□** | | 1 | 1 unit | 1CC | 7.600 |
| | **3VL4740-2□□46-□□□□** | | 1 | 1 unit | 1CC | 7.600 | | **3VL4740-3□□46-□□□□** | | 1 | 1 unit | 1CC | 7.600 |
| | **3VL5763-2□□46-□□□□** | | 1 | 1 unit | 1CC | 11.700 | | **3VL5763-3□□46-□□□□** | | 1 | 1 unit | 1CC | 11.700 |
| | **3VL6780-2□□46-□□□□** | | 1 | 1 unit | 1CC | 20.500 | | **3VL6780-3□□46-□□□□** | | 1 | 1 unit | 1CC | 20.500 |
| | **3VL7710-2□□46-□□□□** | | 1 | 1 unit | 1CC | 33.500 | | **3VL7710-3□□46-□□□□** | | 1 | 1 unit | 1CC | 33.500 |
| | **3VL7712-2□□46-□□□□** | | 1 | 1 unit | 1CC | 33.500 | | **3VL7712-3□□46-□□□□** | | 1 | 1 unit | 1CC | 33.500 |
| | **3VL8716-2□□40-□□□□** | | 1 | 1 unit | 1CC | 40.800 | | **3VL8716-3□□40-□□□□** | | 1 | 1 unit | 1CC | 40.800 |
| | **TN<br>NN** | | | | | | | **TN<br>NN** | | | | | |

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## 4-pole

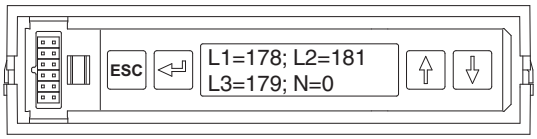


| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "**L**" $I_R$ | Operating current of the instantaneous short-circuit protection "**I**" $I_i$ | S function short-circuit protection (short-time delayed) **S** | DT | $I_{cu}$ **up to 55 kA at 415 V, standard breaking capacity N** See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | A | | | | | | | kg |

### 4-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LI, LSI, LIN, LSIN



NSE0_00696



NSE0_02129

#### *LCD-ETU40, LI/LSI/LIN/LSIN function selectable*

With adjustable overcurrent releases, adjustable short-circuit releases,
short-circuit delay $t_{sd}$ = 0 ... 0.5 s
with overcurrent and short-circuit release in the 4th pole (N), N protection = 50 ... 100 %, OFF

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 63[1] | 25 ... 63 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL2706-1UJ4□-□□□□** | 1 | 1 unit | 1CC | 3.100 |
| | 100[1] | 40 ... 100 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL2710-1UJ4□-□□□□** | 1 | 1 unit | 1CC | 3.100 |
| | 160 | 64 ... 160 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL2716-1UJ4□-□□□□** | 1 | 1 unit | 1CC | 3.100 |
| VL250/3VL3 | 200 | 80 ... 200 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL3720-1UJ4□-□□□□** | 1 | 1 unit | 1CC | 3.300 |
| | 250 | 100 ... 250 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL3725-1UJ4□-□□□□** | 1 | 1 unit | 1CC | 3.300 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | **3** |
| • Connection with flat screw terminal[2] | **6** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| VL400/3VL4 | 315 | 128 ... 315 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL4731-1UJ46-□□□□** | 1 | 1 unit | 1CC | 7.600 |
| | 400 | 160 ... 400 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL4740-1UJ46-□□□□** | 1 | 1 unit | 1CC | 7.600 |
| VL630/3VL5 | 630 | 252 ... 630 | 1.25 ... 10 × $I_n$ | 1.5 ... 9 × $I_R$ | **3VL5763-1UJ46-□□□□** | 1 | 1 unit | 1CC | 11.700 |
| VL800/3VL6 | 800 | 320 ... 800 | 1.25 ... 8 × $I_n$ | 1.5 ... 7 × $I_R$ | **3VL6780-1UJ46-□□□□** | 1 | 1 unit | 1CC | 20.500 |
| VL1250/3VL7 | 1000 | 400 ... 1000 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL7710-1UJ46-□□□□** | 1 | 1 unit | 1CC | 33.500 |
| | 1250 | 500 ... 1250 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | **3VL7712-1UJ46-□□□□** | 1 | 1 unit | 1CC | 33.500 |
| VL1600/3VL8[3] | 1600 | 640 ... 1600 | 1.25 ... 9 × $I_n$ | 1.5 ... 8 × $I_R$ | **3VL8716-1UJ40-□□□□** | 1 | 1 unit | 1CC | 40.800 |

[1] N = 100 % protection for $I_n \leq 100$ A.

[2] **When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

[3] Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.



* You can order this quantity or a multiple thereof.

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2706-2UJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 | | **3VL2706-3UJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 |
| | **3VL2710-2UJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 | | **3VL2710-3UJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 |
| | **3VL2716-2UJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 | | **3VL2716-3UJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 |
| | **3VL3720-2UJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.300 | | **3VL3720-3UJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.300 |
| | **3VL3725-2UJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.300 | | **3VL3725-3UJ4□-□□□□** | | 1 | 1 unit | 1CC | 3.300 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | **3VL4731-2UJ46-□□□□** | | 1 | 1 unit | 1CC | 7.600 | | **3VL4731-3UJ46-□□□□** | | 1 | 1 unit | 1CC | 7.600 |
| | **3VL4740-2UJ46-□□□□** | | 1 | 1 unit | 1CC | 7.600 | | **3VL4740-3UJ46-□□□□** | | 1 | 1 unit | 1CC | 7.600 |
| | **3VL5763-2UJ46-□□□□** | | 1 | 1 unit | 1CC | 11.700 | | **3VL5763-3UJ46-□□□□** | | 1 | 1 unit | 1CC | 11.700 |
| | **3VL6780-2UJ46-□□□□** | | 1 | 1 unit | 1CC | 20.500 | | **3VL6780-3UJ46-□□□□** | | 1 | 1 unit | 1CC | 20.500 |
| | **3VL7710-2UJ46-□□□□** | | 1 | 1 unit | 1CC | 33.500 | | **3VL7710-3UJ46-□□□□** | | 1 | 1 unit | 1CC | 33.500 |
| | **3VL7712-2UJ46-□□□□** | | 1 | 1 unit | 1CC | 33.500 | | **3VL7712-3UJ46-□□□□** | | 1 | 1 unit | 1CC | 33.500 |
| | **3VL8716-2UJ40-□□□□** | | 1 | 1 unit | 1CC | 40.800 | | **3VL8716-3UJ40-□□□□** | | 1 | 1 unit | 1CC | 40.800 |

*** You can order this quantity or a multiple thereof.**

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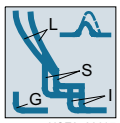


## 4-pole

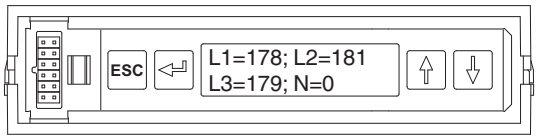


| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "**L**" $I_R$ | Operating current of the instantaneous short-circuit protection "**I**" $I_i$ | S function short-circuit protection (short-time delayed) **S** | Ground-fault protection "**G**" $I_g$ | DT | $I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N (N) See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | A | A | | | | | | | kg |

### 4-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSIG, LSING



NSE0_00697



NSE0_02129

***LCD-ETU42, LSIG/LSING function for 4-wire three-phase systems and time-based discrimination***

With adjustable overcurrent releases, adjustable short-circuit releases
Ground fault delay $t_g$ = 0.1 ... 0.5 s, short-circuit delay $t_{sd}$ = 0 ... 0.5 s
with overcurrent and short-circuit release in the 4th pole (N), N protection = 50 ... 100 %, OFF

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 63 | 25 ... 63 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL2706-1UN4□-□□□□** | 1 | 1 unit | 1CC | 3.100 |
| | 100 | 40 ... 100 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL2710-1UN4□-□□□□** | 1 | 1 unit | 1CC | 3.100 |
| | 160 | 64 ... 160 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL2716-1UN4□-□□□□** | 1 | 1 unit | 1CC | 3.100 |
| VL250/3VL3 | 200 | 80 ... 200 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL3720-1UN4□-□□□□** | 1 | 1 unit | 1CC | 3.300 |
| | 250 | 100 ... 250 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL3725-1UN4□-□□□□** | 1 | 1 unit | 1CC | 3.300 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | **3** |
| • Connection with flat screw terminal[1)] | **6** |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VL400/3VL4 | 315 | 128 ... 315 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL4731-1UN46-□□□□** | 1 | 1 unit | 1CC | 7.600 |
| | 400 | 160 ... 400 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL4740-1UN46-□□□□** | 1 | 1 unit | 1CC | 7.600 |
| VL630/3VL5 | 630 | 252 ... 630 | 1.25 ... 10 × $I_n$ | 1.5 ... 9 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL5763-1UN46-□□□□** | 1 | 1 unit | 1CC | 11.700 |
| VL800/3VL6 | 800 | 320 ... 800 | 1.25 ... 8 × $I_n$ | 1.5 ... 7 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL6780-1UN46-□□□□** | 1 | 1 unit | 1CC | 20.500 |
| VL1250/3VL7 | 1000 | 400 ... 1000 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL7710-1UN46-□□□□** | 1 | 1 unit | 1CC | 33.500 |
| | 1250 | 500 ... 1250 | 1.25 ... 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.4 ... 1 × $I_n$ | **3VL7712-1UN46-□□□□** | 1 | 1 unit | 1CC | 33.500 |
| VL1600/3VL8[2)] | 1600 | 640 ... 1600 | 1.25 ... 9 × $I_n$ | 1.5 ... 8 × $I_R$ | 0.4 ... 1 $I_n$ | **3VL8716-1UN40-□□□□** | 1 | 1 unit | 1CC | 40.800 |

**[1)] When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

[2)] Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.



*** You can order this quantity or a multiple thereof.**

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx.<br>kg | | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx.<br>kg |
| | 3VL2706-2UN4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2706-3UN4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL2710-2UN4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2710-3UN4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL2716-2UN4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2716-3UN4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL3720-2UN4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 | | 3VL3720-3UN4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 |
| | 3VL3725-2UN4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 | | 3VL3725-3UN4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | 3VL4731-2UN46-□□□□ | | 1 | 1 unit | 1CC | 7.600 | | 3VL4731-3UN46-□□□□ | | 1 | 1 unit | 1CC | 7.600 |
| | 3VL4740-2UN46-□□□□ | | 1 | 1 unit | 1CC | 7.600 | | 3VL4740-3UN46-□□□□ | | 1 | 1 unit | 1CC | 7.600 |
| | 3VL5763-2UN46-□□□□ | | 1 | 1 unit | 1CC | 11.700 | | 3VL5763-3UN46-□□□□ | | 1 | 1 unit | 1CC | 11.700 |
| | 3VL6780-2UN46-□□□□ | | 1 | 1 unit | 1CC | 20.500 | | 3VL6780-3UN46-□□□□ | | 1 | 1 unit | 1CC | 20.500 |
| | 3VL7710-2UN46-□□□□ | | 1 | 1 unit | 1CC | 33.500 | | 3VL7710-3UN46-□□□□ | | 1 | 1 unit | 1CC | 33.500 |
| | 3VL7712-2UN46-□□□□ | | 1 | 1 unit | 1CC | 33.500 | | 3VL7712-3UN46-□□□□ | | 1 | 1 unit | 1CC | 33.500 |
| | 3VL8716-2UN40-□□□□ | | 1 | 1 unit | 1CC | 40.800 | | 3VL8716-3UN40-□□□□ | | 1 | 1 unit | 1CC | 40.800 |

*** You can order this quantity or a multiple thereof.**

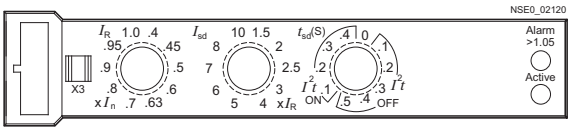
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| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "**L**" $I_R$ | Operating current of the instantaneous short-circuit protection "**I**" $I_i$ | S function short-circuit protection (short-time delayed) **S** | DT | $I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | (N) Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | A | | | | | | | kg |

### 4-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSI




***ETU20, LSI function for time-based discrimination***

With adjustable overcurrent releases, non-adjustable short-circuit releases, short-circuit delay ($t_{sd}$ = 0 ... 0.5 s)
Without overcurrent and short-circuit release in the 4th pole (N)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 63 | 25 ... 63 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL2706-1□□4□-□□□□ | 1 | 1 unit | 1CC | 3.100 |
| | 100 | 40 ... 100 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL2710-1□□4□-□□□□ | 1 | 1 unit | 1CC | 3.100 |
| | 160 | 64 ... 160 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL2716-1□□4□-□□□□ | 1 | 1 unit | 1CC | 3.100 |
| VL250/3VL3 | 200 | 80 ... 200 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL3720-1□□4□-□□□□ | 1 | 1 unit | 1CC | 3.300 |
| | 250 | 100 ... 250 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL3725-1□□4□-□□□□ | 1 | 1 unit | 1CC | 3.300 |

Connection type can be selected by assignment of the 12th position of the Article No.

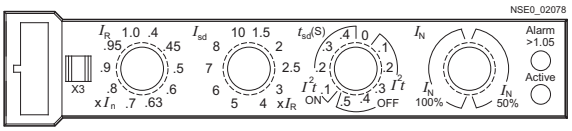
| | |
|---|---|
| • Connection with box terminal | **3** |
| • Connection with flat screw terminal[1)] | **6** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| VL400/3VL4 | 315 | 128 ... 315 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL4731-1□□46-□□□□ | 1 | 1 unit | 1CC | 7.600 |
| | 400 | 160 ... 400 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL4740-1□□46-□□□□ | 1 | 1 unit | 1CC | 7.600 |
| VL630/3VL5 | 630 | 252 ... 630 | 10 × $I_n$ | 1.5 ... 9 × $I_R$ | 3VL5763-1□□46-□□□□ | 1 | 1 unit | 1CC | 11.700 |
| VL800/3VL6 | 800 | 320 ... 800 | 8 × $I_n$ | 1.5 ... 7 × $I_R$ | 3VL6780-1□□46-□□□□ | 1 | 1 unit | 1CC | 20.500 |
| VL1250/3VL7 | 1000 | 400 ... 1000 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL7710-1□□46-□□□□ | 1 | 1 unit | 1CC | 33.500 |
| | 1250 | 500 ... 1250 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL7712-1□□46-□□□□ | 1 | 1 unit | 1CC | 33.500 |
| VL1600/3VL8[1)] | 1600 | 640 ... 1600 | 9 × $I_n$ | 1.5 ... 8 × $I_R$ | 3VL8716-1□□40-□□□□ | 1 | 1 unit | 1CC | 40.800 |

| | |
|---|---|
| • Without communication preparation | **TE** |
| • With communication preparation | **NE** |

### 4-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSIN




***ETU20, LSIN function for time-based discrimination***

With adjustable overcurrent releases, non-adjustable short-circuit releases, short-circuit delay ($t_{sd}$ = 0 ... 0.5 s)
with overcurrent and short-circuit release in the 4th pole (N), N protection = 50/100 %

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 63 | 0.4 ...1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL2706-1□□4□-□□□□ | 1 | 1 unit | 1CC | 3.100 |
| | 100 | 0.4 ...1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL2710-1□□4□-□□□□ | 1 | 1 unit | 1CC | 3.100 |
| | 160 | 0.4 ...1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL2716-1□□4□-□□□□ | 1 | 1 unit | 1CC | 3.100 |
| VL250/3VL3 | 200 | 0.4 ...1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL3720-1□□4□-□□□□ | 1 | 1 unit | 1CC | 3.300 |
| | 250 | 0.4 ...1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL3725-1□□4□-□□□□ | 1 | 1 unit | 1CC | 3.300 |

Connection type can be selected by assignment of the 12th position of the Article No.

| | |
|---|---|
| • Connection with box terminal | **3** |
| • Connection with flat screw terminal[1)] | **6** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| VL400/3VL4 | 315 | 0.4 ...1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL4731-1□□46-□□□□ | 1 | 1 unit | 1CC | 7.600 |
| | 400 | 0.4 ...1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL4740-1□□46-□□□□ | 1 | 1 unit | 1CC | 7.600 |
| VL630/3VL5 | 630 | 0.4 ...1.0 × $I_n$ | 10 × $I_n$ | 1.5 ... 9 × $I_R$ | 3VL5763-1□□46-□□□□ | 1 | 1 unit | 1CC | 11.700 |
| VL800/3VL6 | 800 | 0.4 ...1.0 × $I_n$ | 8 × $I_n$ | 1.5 ... 7 × $I_R$ | 3VL6780-1□□46-□□□□ | 1 | 1 unit | 1CC | 20.500 |
| VL1250/3VL7 | 1000 | 0.4 ...1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL7710-1□□46-□□□□ | 1 | 1 unit | 1CC | 33.500 |
| | 1250 | 0.4 ...1.0 × $I_n$ | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 3VL7712-1□□46-□□□□ | 1 | 1 unit | 1CC | 33.500 |
| VL1600/3VL8[2)] | 1600 | 0.4 ...1.0 × $I_n$ | 9 × $I_n$ | 1.5 ... 8 × $I_R$ | 3VL8716-1□□40-□□□□ | 1 | 1 unit | 1CC | 40.800 |

| | |
|---|---|
| • Without communication preparation | **TF** |
| • With communication preparation | **NF** |
| • Marine engineering-certified LRS, DNV, GL and BV (not communication-ready) | **LF** |

**1) When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

2) Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:
- For accessories, see page 2/207.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".



*** You can order this quantity or a multiple thereof.**

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | 3VL2706-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2706-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL2710-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2710-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL2716-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2716-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL3720-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 | | 3VL3720-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 |
| | 3VL3725-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 | | 3VL3725-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | 3VL4731-2□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 | | 3VL4731-3□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 |
| | 3VL4740-2□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 | | 3VL4740-3□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 |
| | 3VL5763-2□□46-□□□□ | | 1 | 1 unit | 1CC | 11.700 | | 3VL5763-3□□46-□□□□ | | 1 | 1 unit | 1CC | 11.700 |
| | 3VL6780-2□□46-□□□□ | | 1 | 1 unit | 1CC | 20.500 | | 3VL6780-3□□46-□□□□ | | 1 | 1 unit | 1CC | 20.500 |
| | 3VL7710-2□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 | | 3VL7710-3□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 |
| | 3VL7712-2□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 | | 3VL7712-3□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 |
| | 3VL8716-2□□40-□□□□ | | 1 | 1 unit | 1CC | 40.800 | | 3VL8716-3□□40-□□□□ | | 1 | 1 unit | 1CC | 40.800 |
| | **TE NE** | | | | | | | **TE NE** | | | | | |

| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | 3VL2706-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2706-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL2710-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2710-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL2716-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2716-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL3720-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 | | 3VL3720-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 |
| | 3VL3725-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 | | 3VL3725-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | 3VL4731-2□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 | | 3VL4731-3□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 |
| | 3VL4740-2□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 | | 3VL4740-3□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 |
| | 3VL5763-2□□46-□□□□ | | 1 | 1 unit | 1CC | 11.700 | | 3VL5763-3□□46-□□□□ | | 1 | 1 unit | 1CC | 11.700 |
| | 3VL6780-2□□46-□□□□ | | 1 | 1 unit | 1CC | 20.500 | | 3VL6780-3□□46-□□□□ | | 1 | 1 unit | 1CC | 20.500 |
| | 3VL7710-2□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 | | 3VL7710-3□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 |
| | 3VL7712-2□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 | | 3VL7712-3□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 |
| | 3VL8716-2□□40-□□□□ | | 1 | 1 unit | 1CC | 40.800 | | 3VL8716-3□□40-□□□□ | | 1 | 1 unit | 1CC | 40.800 |
| | **TF NF LF** | | | | | | | **TF NF LF** | | | | | |

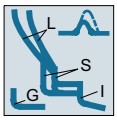
*** You can order this quantity or a multiple thereof.**

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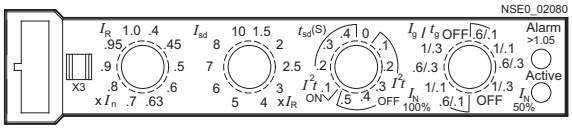


| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overcurrent protection "**L**" $I_R$ | Operating current of the instan-taneous short-circuit protec-tion "**I**" $I_i$ | S function short-circuit protection (short-time delayed) **S** | Ground-fault protection "**G**" $I_g$ | DT | $I_{cu}$ **up to 55 kA at 415 V, standard breaking capacity N** See "Overview". | | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | A | A | | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | | | | kg |

### 4-pole, fixed-mounted, for line protection – generator protection, 63 A to 1600 A, Electronic Trip Units LSING



NSE0_00694




***ETU22, LSING function for 4-wire three-phase systems and time-based discrimination***

With adjustable overcurrent releases, adjustable short-circuit releases, ground fault delay $t_g$ = 0.1 ... 0.3 s, ground-fault protection (G) can be switched off, short-circuit delay $t_{sd}$ = 0 ... 0.5 s with overcurrent and short-circuit release in the 4th pole (N), N protection = 50/100 %

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 63 | 25 ... 63 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL2706-1□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 |
| | 100 | 40 ... 100 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL2710-1□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 |
| | 160 | 64 ... 160 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL2716-1□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.100 |
| VL250/3VL3 | 200 | 80 ... 200 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL3720-1□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.300 |
| | 250 | 100 ... 250 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL3725-1□□4□-□□□□** | | 1 | 1 unit | 1CC | 3.300 |
| | | | | | | Connection type can be selected by assignment of the 12th position of the Article No. | | | | | |
| | | | | | | • Connection with box terminal | **3** | | | | |
| | | | | | | • Connection with flat screw terminal[1] | **6** | | | | |
| VL400/3VL4 | 315 | 128 ... 315 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL4731-1□□46-□□□□** | | 1 | 1 unit | 1CC | 7.600 |
| | 400 | 160 ... 400 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL4740-1□□46-□□□□** | | 1 | 1 unit | 1CC | 7.600 |
| VL630/3VL5 | 630 | 252 ... 630 | 10 × $I_n$ | 1.5 ... 9 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL5763-1□□46-□□□□** | | 1 | 1 unit | 1CC | 11.700 |
| VL800/3VL6 | 800 | 320 ... 800 | 8 × $I_n$ | 1.5 ... 7 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL6780-1□□46-□□□□** | | 1 | 1 unit | 1CC | 20.500 |
| VL1250/3VL7 | 1000 | 400 ... 1000 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL7710-1□□46-□□□□** | | 1 | 1 unit | 1CC | 33.500 |
| | 1250 | 500 ... 1250 | 11 × $I_n$ | 1.5 ... 10 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL7712-1□□46-□□□□** | | 1 | 1 unit | 1CC | 33.500 |
| VL1600/3VL8[2] | 1600 | 640 ... 1600 | 9 × $I_n$ | 1.5 ... 8 × $I_R$ | 0.6 ... 1 × $I_n$, OFF | **3VL8716-1□□40-□□□□** | | 1 | 1 unit | 1CC | 40.800 |
| | | | | | | • Without communication preparation | **TH** | | | | |
| | | | | | | • With communication preparation | **NH** | | | | |

[1] **When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

[2] Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/207.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".



* You can order this quantity or a multiple thereof.

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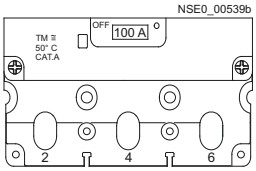


| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Price | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | 3VL2706-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2706-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL2710-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2710-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL2716-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 | | 3VL2716-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.100 |
| | 3VL3720-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 | | 3VL3720-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 |
| | 3VL3725-2□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 | | 3VL3725-3□□4□-□□□□ | | 1 | 1 unit | 1CC | 3.300 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | 3VL4731-2□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 | | 3VL4731-3□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 |
| | 3VL4740-2□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 | | 3VL4740-3□□46-□□□□ | | 1 | 1 unit | 1CC | 7.600 |
| | 3VL5763-2□□46-□□□□ | | 1 | 1 unit | 1CC | 11.700 | | 3VL5763-3□□46-□□□□ | | 1 | 1 unit | 1CC | 11.700 |
| | 3VL6780-2□□46-□□□□ | | 1 | 1 unit | 1CC | 20.500 | | 3VL6780-3□□46-□□□□ | | 1 | 1 unit | 1CC | 20.500 |
| | 3VL7710-2□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 | | 3VL7710-3□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 |
| | 3VL7712-2□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 | | 3VL7712-3□□46-□□□□ | | 1 | 1 unit | 1CC | 33.500 |
| | 3VL8716-2□□40-□□□□ | | 1 | 1 unit | 1CC | 40.800 | | 3VL8716-3□□40-□□□□ | | 1 | 1 unit | 1CC | 40.800 |
| | **TH NH** | | | | | | | **TH NH** | | | | | |

*** You can order this quantity or a multiple thereof.**

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| Type | Rated current $I_n$ | Operating current of the instantaneous short-circuit releases "I" $I_i$ | DT | $I_{cu}$ up to 55 kA at 415 V, standard breaking capacity N (N) See "Overview". Article No. / Article No. supplement, see page 2/172; www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|
| | A | A | | | | | | | kg |
| **4-pole, fixed-mounted, for safe disconnection, 100 A to 1600 A, magnetic trip units I** | | | | | | | | | |
|  NSE0_00708 | | | | | | | | | |
|  NSE0_00539b | | | | | | | | | |
| ***Non-automatic molded case circuit breakers[1], I function*** Without overcurrent releases, with non-adjustable short-circuit releases (for intrinsic protection only), without overcurrent and short-circuit release in the 4th pole (N) | | | | | | | | | |
| VL160X/3VL1 | 100 | 1800 | | 3VL1710-1EE4□-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 160 | 1800 | | 3VL1716-1EE4□-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| VL160/3VL2 | 100 | 2500 | | 3VL2710-1EE4□-□□□□ | | 1 | 1 unit | 1CC | 3.000 |
| | 160 | 2500 | | 3VL2716-1EE4□-□□□□ | | 1 | 1 unit | 1CC | 3.000 |
| VL250/3VL3 | 250 | 3500 | | 3VL3725-1EE4□-□□□□ | | 1 | 1 unit | 1CC | 3.200 |
| Connection type can be selected by assignment of the 12th position of the Article No. • Connection with box terminal **3** • Connection with screw terminal not in conjunction with RCD module at 3VL1[2] **6** | | | | | | | | | |
| VL400/3VL4 | 400 | 4000 | | 3VL4740-1EE46-□□□□ | | 1 | 1 unit | 1CC | 7.400 |
| VL630/3VL5 | 630 | 6300 | | 3VL5763-1EE46-□□□□ | | 1 | 1 unit | 1CC | 11.200 |
| VL800/3VL6 | 800 | 6500 | | 3VL6780-1EE46-□□□□ | | 1 | 1 unit | 1CC | 19.900 |
| VL1250/3VL7 | 1250 | 12000 | | 3VL7712-1EE46-□□□□ | | 1 | 1 unit | 1CC | 31.000 |
| VL1600/3VL8[3] | 1600 | 14400 | | 3VL8716-1EE40-□□□□ | | 1 | 1 unit | 1CC | 38.300 |

1) See chapter "Switch Disconnectors". 3K. switch disconnectors are also available with rear-mounting operating mechanism and leading contacts.

2) **When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

3) Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.



* You can order this quantity or a multiple thereof.

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| DT | $I_{cu}$ up to 70 kA at 415 V, high breaking capacity H (H) | | | | | | DT | $I_{cu}$ up to 100 kA at 415 V, very high breaking capacity L (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No.<br>Article No. supplement, see page 2/172;<br>www.siemens.com/product?Article No. | Basic price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL1710-2EE4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **--** | | | | | |
| | **3VL1716-2EE4□-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **--** | | | | | |
| | **3VL2710-2EE4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2710-3EE4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL2716-2EE4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 | | **3VL2716-3EE4□-□□□□** | | 1 | 1 unit | 1CC | 3.000 |
| | **3VL3725-2EE4□-□□□□** | | 1 | 1 unit | 1CC | 3.200 | | **3VL3725-3EE4□-□□□□** | | 1 | 1 unit | 1CC | 3.200 |
| | **3 6** | | | | | | | **3 6** | | | | | |
| | **3VL4740-2EE46-□□□□** | | 1 | 1 unit | 1CC | 7.400 | | **3VL4740-3EE46-□□□□** | | 1 | 1 unit | 1CC | 7.400 |
| | **3VL5763-2EE46-□□□□** | | 1 | 1 unit | 1CC | 11.200 | | **3VL5763-3EE46-□□□□** | | 1 | 1 unit | 1CC | 11.200 |
| | **3VL6780-2EE46-□□□□** | | 1 | 1 unit | 1CC | 19.900 | | **3VL6780-3EE46-□□□□** | | 1 | 1 unit | 1CC | 19.900 |
| | **3VL7712-2EE46-□□□□** | | 1 | 1 unit | 1CC | 31.000 | | **3VL7712-3EE46-□□□□** | | 1 | 1 unit | 1CC | 31.000 |
| | **3VL8716-2EE40-□□□□** | | 1 | 1 unit | 1CC | 38.300 | | **3VL8716-3EE40-□□□□** | | 1 | 1 unit | 1CC | 38.300 |

*** You can order this quantity or a multiple thereof.**

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## 4-pole

| Article No. supplement (for complete Article No., see pages 2/156 to 2/144) **3VL7.. - .□□4.-....** Trip unit | | Breaking capacity | Type | **VL160**[1] 3VL2 | | | **VL250**[1] 3VL3 | | **VL400** 3VL4 | | **VL630** 3VL5 | **VL800** 3VL6 | **VL1250** 3VL7 | | **VL1600** 3VL8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Rated current $I_n$ | 63 A | 100 A | 160 A | 200 A | 250 A | 315 A | 400 A | 630 A | 800 A | 1000 A | 1250 A | 1600 A |
| | | | **Price** | | | | | | | | | | | | |
| ETU10 | **TB** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU10 | **NB** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU10 | **TA** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU10 | **NA** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU10 | **LA** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU12 | **TN** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU12 | **NN** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU40 | **UJ** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU42 | **UN** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU20 | **TE** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU20 | **NE** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU20 | **TF** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU20 | **NF** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU20 | **LF** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU22 | **TH** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ETU22 | **NH** | N H L | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

✓ Available

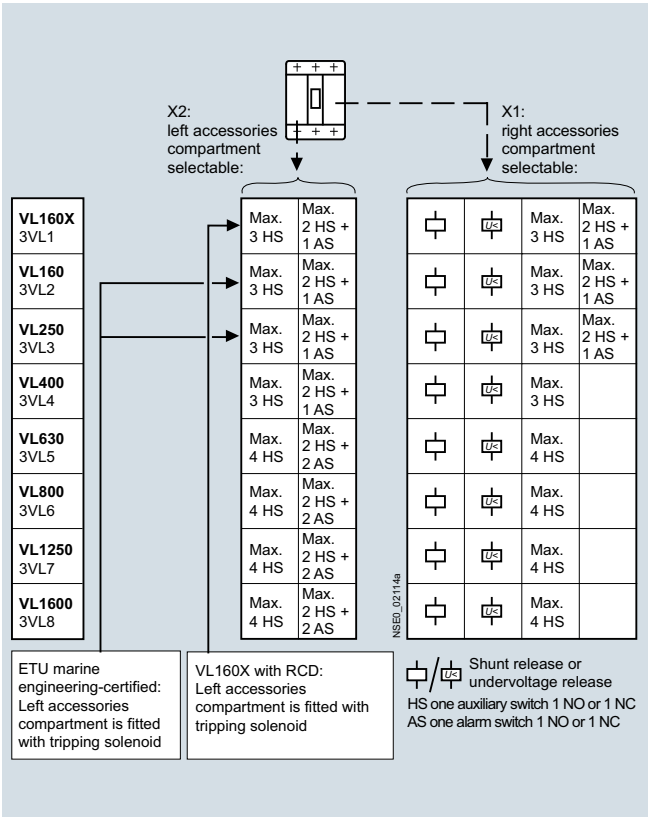
[1] **The basic price is reduced when the molded case circuit breaker is ordered with a flat screw terminal ".36-".**

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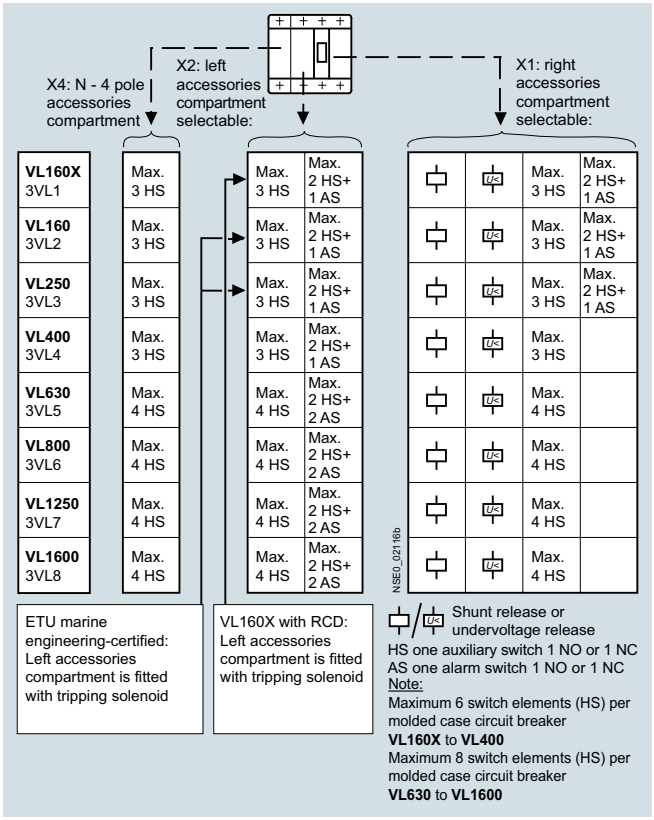


***Equipment options for the insulated accessory compartments in the 3VL molded case circuit breakers***

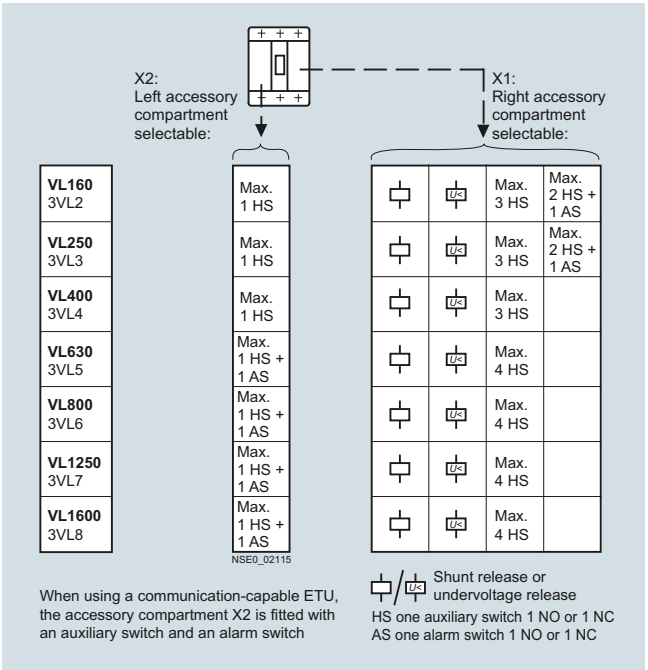
3-pole circuit breakers without communication preparation



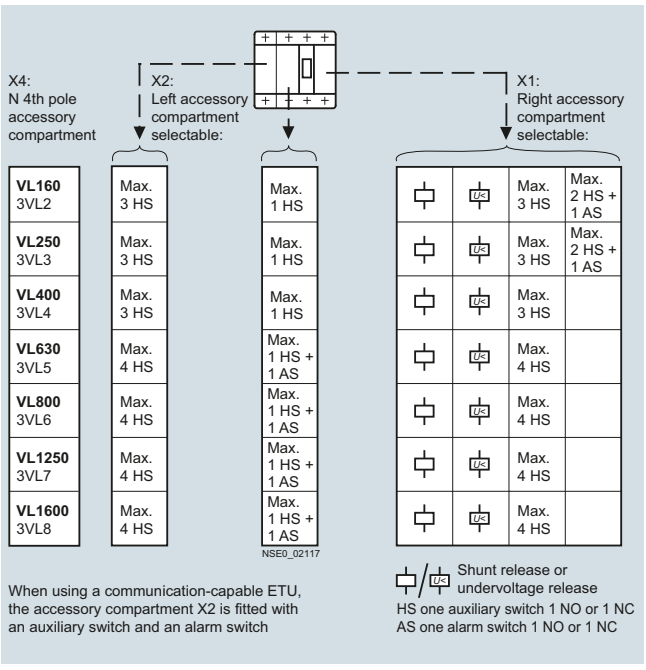

4-pole circuit breakers without communication preparation




3-pole circuit breakers with communication preparation




4-pole circuit breakers with communication preparation




Note:

Before ordering, use the tables above to check whether the required combination of shunt releases, undervoltage releases and auxiliary/alarm switches is feasible.

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## Options



**1st Article No. supplement:**
**Undervoltage or shunt release, wiring directly to accessories**

| Rated control supply voltage $U_s$/frequency | | Article No. supplement | | | Circuit breakers Type | |
|---|---|---|---|---|---|---|
| 50/60 Hz AC<br>DC | | **3VL....-.....-** ☐☐ **..** | | | **VL160X to VL400/ 3VL1 to 3VL4** Additional price | **VL630 to VL1600/ 3VL5 to 3VL8** Additional price |
| ***3- or 4-pole*** | | | | | | |
| **Without auxiliary release** | | **0** | **A** | | **None** | **None** |
| **With undervoltage release** Only right pole | | | | | | |
| V AC | V DC | | | | | |
| -- | 12 | **2** | **N** | | ✓ | ✓ |
| -- | 24 | **2** | **P** | | ✓ | ✓ |
| -- | 48 | **2** | **U** | | ✓ | ✓ |
| -- | 60 | **2** | **V** | | ✓ | ✓ |
| -- | 110 ... 127 | **2** | **R** | | ✓ | ✓ |
| -- | 220 ... 250 | **2** | **S** | | ✓ | ✓ |
| 24 | -- | **2** | **D** | | ✓ | ✓ |
| 110 ... 127 | -- | **2** | **G** | | ✓ | ✓ |
| 220 ... 250 | -- | **2** | **H** | | ✓ | ✓ |
| 208 | -- | **2** | **M** | | ✓ | ✓ |
| 277 | -- | **2** | **Q** | | ✓ | ✓ |
| 380 ... 415 | -- | **2** | **J** | | ✓ | ✓ |
| 440 ... 480 | -- | **2** | **K** | | ✓ | ✓ |
| 500 ... 525 | -- | **2** | **L** | | ✓ | ✓ |
| **With shunt release** Only right pole | | | | | | |
| V AC | V DC | | | | | |
| 24 | 24 | **8** | **C** | | ✓ | ✓ |
| -- | 48 ... 60 | **8** | **J** | | ✓ | ✓ |
| -- | 110 ... 127 | **8** | **K** | | ✓ | ✓ |
| -- | 220 ... 250 | **8** | **Q** | | ✓ | ✓ |
| 48 ... 60 | -- | **8** | **M** | | ✓ | ✓ |
| 110 ... 127 | -- | **8** | **R** | | ✓ | ✓ |
| 208 ... 277 | -- | **8** | **T** | | ✓ | ✓ |
| 380 ... 600 | -- | **8** | **V** | | ✓ | ✓ |

**2nd Article No. supplement:**
**Auxiliary switches (HS) and alarm switches (AS), left/right pole, directly wired to accessories**

| Equipment | Article No. supplement | | | Circuit breakers Type | |
|---|---|---|---|---|---|
| HS = 1 NO or 1 NC contact block<br>AS = 1 NO contact block | **3VL....-.....-** .. ☐☐ | | | **VL160X to VL400[1])/ 3VL1 to 3VL4** Additional price | **VL630 to VL1600/ 3VL5 to 3VL8** Additional price |
| Without auxiliary/alarm switches | | **A** | **0** | **None** | **None** |
| 2 HS (1 NO/1 NC)[2)] | | **B** | **1** | ✓ [1)4)] | -- |
| 4 HS (2 NO/2 NC) | | **C** | **1** | -- | ✓ |
| 2 HS (1 NO/1 NC) + 1 AS (1 NO) | | **D** | **1** | ✓ [1)4)] | -- |
| 2 HS (1 NO/1 NC) + 1 AS (1 NO)[3)] | | **E** | **1** | -- | ✓ [5)] |

✓ Additional price

-- Not available

1) Except for installation in the left accessory compartment of the VL160X molded case circuit breakers with RCD module.

2) With mounting adapter up to 3 HS.

3) With mounting adapter up to 2 HS + 2 AS.

4) Not feasible for use of marine engineering ETU and additional use of shunt and undervoltage releases.
When using a communication-capable ETU, the accessory compartment X2 is fitted with an auxiliary switch and an alarm switch. The combination of 1st and 2nd Article No. supplement is only possible with restrictions. It is recommended to use the configurator in the Mall for selection purposes.

5) Not possible when using a communication-capable ETU.

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## Selection and ordering data

When ordering, add **"-Z"** to the complete Article No. and add the relevant order code(s).

Article No. with **"-Z"**
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
**3VL** . . . . - . . . . . - . . . . **-Z**
and additional order code(s)
□□□ + . . . + . . .

Code for further versions **-Z**

Additional price

| | | | |
|---|---|---|---|
| **For fixed-mounted circuit breakers (wired in factory)** | | | |
| ***3- or 4-pole*** | | | |
| **Prewired internal accessories**<br>Connecting cables (3 m long) brought out at the rear<br>This option "L02" can be selected only in combination with internal accessories (page 2/172). | For VL160X to VL1600 (3VL1 to 3VL8) | **L 0 2** | ✓ |
| **Prewired connecting cables for motorized operating mechanisms with stored energy mechanisms (SEO)**<br>Connecting cables on the circuit breaker for motorized operating mechanisms (3 m long).<br>On VL160X to VL400 brought out at the top.<br>On VL630 and VL800 brought out on the right.<br>Option "L12" can only be selected in combination with motorized operating mechanisms (order codes "M24", "M42", "M60", "M11" and "M22"). | For VL160X to VL800 (3VL1 to 3VL6) | **L 1 2** | ✓ |
| **Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (24 V DC)**<br>Motorized operating mechanisms not prewired;<br>if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition.<br>If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition. | Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3) | **M 2 4** | ✓ |
| | VL400 (3VL4) | | ✓ |
| | VL630, VL800 (3VL5, 3VL6) | | ✓ |
| | VL1250, VL1600 (3VL7, 3VL8)[1] | | ✓ |
| **Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (42 ... 48 V AC/DC)**<br>Motorized operating mechanisms not prewired;<br>if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition.<br>If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition. | Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3) | **M 4 2** | ✓ |
| | VL400 (3VL4) | | ✓ |
| | VL630, VL800 (3VL5, 3VL6) | | ✓ |
| | VL1250, VL1600 (3VL7, 3VL8)[1] | | ✓ |
| **Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (60 V AC/DC)**<br>Motorized operating mechanisms not prewired;<br>if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition.<br>If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition. | Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3) | **M 6 0** | ✓ |
| | VL400 (3VL4) | | ✓ |
| | VL630, VL800 (3VL5, 3VL6) | | ✓ |
| | VL1250, VL1600 (3VL7, 3VL8)[1] | | ✓ |
| **Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (110 ... 127 V AC/DC)**<br>Motorized operating mechanisms not prewired;<br>if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition.<br>If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition. | Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3) | **M 1 1** | ✓ |
| | VL400 (3VL4) | | ✓ |
| | VL630, VL800 (3VL5, 3VL6) | | ✓ |
| | VL1250, VL1600 (3VL7, 3VL8)[1] | | ✓ |
| **Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (220 ... 250 V AC/DC)**<br>Motorized operating mechanisms not prewired;<br>if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition.<br>If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition. | Available with VL160X, VL160, VL250 (3VL1, 3VL2, 3VL3) | **M 2 2** | ✓ |
| | VL400 (3VL4) | | ✓ |
| | VL630, VL800 (3VL5, 3VL6) | | ✓ |
| | VL1250, VL1600 (3VL7, 3VL8)[1] | | ✓ |

✓ Additional price

[1] The motorized operating mechanism for VL1250 and VL1600 (3VL7 and 3VL8) has no stored energy mechanism and is also unsuitable for synchronization tasks.

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## Options

2

When ordering, add **"-Z"** to the complete Article No. and add the relevant order code(s).

Article No. with **"-Z"**
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
**3VL . . . . - . . . . . - . . . . -Z**
and additional order code(s)
□□□ + . . . + . . .

Code for further versions **-Z**

Additional price

### For fixed-mounted circuit breakers (wired in factory)

***3- or 4-pole***

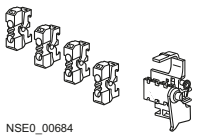
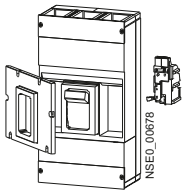
| | | | |
|---|---|---|---|
| **Pre-mounted motorized operating mechanisms (24 V DC) on circuit breaker, not synchronizable**<br>If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition. | Available with VL160X (3VL1) | **M 2 5** | ✓ |
| | VL160, VL250 (3VL2, 3VL3) | | ✓ |
| | VL400 (3VL4) | | ✓ |
| | VL630, VL800 (3VL5, 3VL6) | | ✓ |
| **Pre-mounted motorized operating mechanisms (42 ... 60 V AC/DC) on circuit breaker, not synchronizable**<br>If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition. | Available with VL160X (3VL1) | **M 4 3** | ✓ |
| | VL160, VL250 (3VL2, 3VL3) | | ✓ |
| | VL400 (3VL4) | | ✓ |
| | VL630, VL800 (3VL5, 3VL6) | | ✓ |
| **Pre-mounted motorized operating mechanisms (110 ... 127 V AC/DC) on circuit breaker, not synchronizable**<br>If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition. | Available with VL160X (3VL1) | **M 1 2** | ✓ |
| | VL160, VL250 (3VL2, 3VL3) | | ✓ |
| | VL400 (3VL4) | | ✓ |
| | VL630, VL800 (3VL5, 3VL6) | | ✓ |
| **Pre-mounted motorized operating mechanisms (220 ... 250 V AC/DC) on circuit breaker, not synchronizable**<br>If internal accessories are provided, the prewiring option "L02" for internal accessories is already included. In this case "L02" must not be specified in addition. | Available with VL160X (3VL1) | **M 2 3** | ✓ |
| | VL160, VL250 (3VL2, 3VL3) | | ✓ |
| | VL400 (3VL4) | | ✓ |
| | VL630, VL800 (3VL5, 3VL6) | | ✓ |

✓ Additional price

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## Selection and ordering data

| | Wiring directly to accessories | DT | For VL160X to VL400 (3VL1 to 3VL4) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Auxiliary switches and auxiliary releases** | | | | | | | | |
| | ***3- or 4-pole*** | | | | | | | |
| | For retrofitting (for equipment options, see Technical Information at www.siemens.com/lowvoltage/product-support.) | | | | | | | |
|  NSE0_00684 3VL9400-2A.00 | **Auxiliary switches (HS) and alarm switches (AS)** For retrofitting | | | | | | | |
| | Assembly kits: 2 HS (1 NO + 1 NC); Mounting side: N, left[1], right | | 3VL9400-2AB00 | | 1 | 1 unit | 1CC | 0.056 |
| | Assembly kits: 4 HS (2 NO + 2 NC); Mounting side: N, left[1], right | | -- | | | | | |
| | Assembly kits: 2 HS (1 NC + 1 NO); Mounting side: left[1], right[3] | | 3VL9400-2AD00 | | 1 | 1 unit | 1CC | 0.087 |
| | Assembly kits: + 1 AS (1 NO) (assembly kit); Mounting side: left[1] | | -- | | | | | |
| | Additional auxiliary switch/alarm switch combinations | | See page 2/177. | | | | | |
|  NSE0_00678 3VL9400-1S.00, 3VL9400-1U.00 | **Shunt releases[2]** For retrofitting | | | | | | | |
| | V AC: 24; V DC: 24; Mounting side: Right pole only | | 3VL9400-1SC00 | | 1 | 1 unit | 1CC | 0.100 |
| | V AC: --; V DC: 48 ... 60; Mounting side: Right pole only | | 3VL9400-1SJ00 | | 1 | 1 unit | 1CC | 0.103 |
| | V AC: --; V DC: 110 ... 127; Mounting side: Right pole only | | 3VL9400-1SK00 | | 1 | 1 unit | 1CC | 0.099 |
| | V AC: --; V DC: 220 ... 250; Mounting side: Right pole only | | 3VL9400-1SQ00 | | 1 | 1 unit | 1CC | 0.098 |
| | V AC: 48 ... 60; V DC: --; Mounting side: Right pole only | | 3VL9400-1SM00 | | 1 | 1 unit | 1CC | 0.103 |
| | V AC: 110 ... 127; V DC: --; Mounting side: Right pole only | | 3VL9400-1SR00 | | 1 | 1 unit | 1CC | 0.101 |
| | V AC: 208 ... 277; V DC: --; Mounting side: Right pole only | | 3VL9400-1ST00 | | 1 | 1 unit | 1CC | 0.100 |
| | V AC: 380 ... 600; V DC: --; Mounting side: Right pole only | | 3VL9400-1SV00 | | 1 | 1 unit | 1CC | 0.106 |
| | **Undervoltage releases** For retrofitting | | | | | | | |
| | V AC: --; V DC: 12; Mounting side: Right pole only | | 3VL9400-1UN00 | | 1 | 1 unit | 1CC | 0.100 |
| | V AC: --; V DC: 24; Mounting side: Right pole only | | 3VL9400-1UP00 | | 1 | 1 unit | 1CC | 0.099 |
| | V AC: --; V DC: 48; Mounting side: Right pole only | | 3VL9400-1UU00 | | 1 | 1 unit | 1CC | 0.100 |
| | V AC: --; V DC: 60; Mounting side: Right pole only | | 3VL9400-1UV00 | | 1 | 1 unit | 1CC | 0.098 |
| | V AC: 24; V DC: --; Mounting side: Right pole only | | 3VL9400-1UD00 | | 1 | 1 unit | 1CC | 0.104 |
| | V AC: 110 ... 127; V DC: --; Mounting side: Right pole only | | 3VL9400-1UG00 | | 1 | 1 unit | 1CC | 0.104 |
| | V AC: --; V DC: 110 ... 127; Mounting side: Right pole only | | 3VL9400-1UR00 | | 1 | 1 unit | 1CC | 0.099 |
| | V AC: 208; V DC: --; Mounting side: Right pole only | | 3VL9400-1UM00 | | 1 | 1 unit | 1CC | 0.103 |
| | V AC: 220 ... 250; V DC: --; Mounting side: Right pole only | | 3VL9400-1UH00 | | 1 | 1 unit | 1CC | 0.105 |
| | V AC: --; V DC: 220 ... 250; Mounting side: Right pole only | | 3VL9400-1US00 | | 1 | 1 unit | 1CC | 0.102 |
| | V AC: 277; V DC: --; Mounting side: Right pole only | | 3VL9400-1UQ00 | | 1 | 1 unit | 1CC | 0.100 |
| | V AC: 380 ... 415; V DC: --; Mounting side: Right pole only | | 3VL9400-1UJ00 | | 1 | 1 unit | 1CC | 0.103 |
| | V AC: 440 ... 480; V DC: --; Mounting side: Right pole only | | 3VL9400-1UK00 | | 1 | 1 unit | 1CC | 0.103 |
| | V AC: 500 ... 525; V DC: --; Mounting side: Right pole only | | 3VL9400-1UL00 | | 1 | 1 unit | 1CC | 0.103 |
| | **Time-delay devices for undervoltage releases (220 ... 250 V DC)** Rated control supply voltage $U_s$ 220 ... 250 V AC | | | | | | | |
| | Delay time > 200 ms | | 3TX4701-0AN1 | | 1 | 1 unit | 41B | 0.168 |
| | **Storage devices for shunt releases (208 ... 277 V AC/220 ... 250 V DC)** Rated control supply voltage $U_s$ 220 V ... 240 V AC/220 V ... 250 V DC | | | | | | | |
| | Storage time 5 min | | 3WL9111-0BA14-0AA0 | | 1 | 1 unit | 1CA | 0.520 |

1) Except for installation in the left accessory compartment of the VL160X (3VL1) molded case circuit breakers with RCD module.

2) Shunt releases with disconnection contact (3SB3 for ON/OFF position) not floating (see Technical Information at www.siemens.com/lowvoltage/product-support).

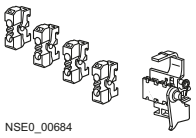
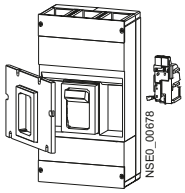
3) In the case of VL400 (3VL4): Unsuitable for mounting in the right-hand accessory compartment. The 3VL9400-2AB00 assembly kit with auxiliary switches only is recommended.

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## Accessories and spare parts

| | Wiring directly to accessories | DT | For VL630 up to VL1600 (3VL5 to 3VL8) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Auxiliary switches and auxiliary releases** | | | | | | | | |
| | ***3- or 4-pole*** | | | | | | | |
| | For retrofitting (for equipment options, see Technical Information at www.siemens.com/lowvoltage/product-support.) | | | | | | | |
|  NSE0_00684 3VL9800-2A.00 | **Auxiliary switches (HS) and alarm switches (AS)** For retrofitting | | | | | | | |
| | Assembly kits / Mounting side | | | | | | | |
| | 2 HS (1 NO + 1 NC) / N, left, right | | -- | | | | | |
| | 4 HS (2 NO + 2 NC) / N, left, right | | 3VL9800-2AC00 | | 1 | 1 unit | 1CC | 0.090 |
| | 2 HS (1 NC + 1 NO) / Left, right | | -- | | | | | |
| | + 1 AS (1 NO) (assembly kit) / Left | | 3VL9800-2AE00 | | 1 | 1 unit | 1CC | 0.080 |
| | Additional auxiliary switch/alarm switch combinations | | See page 2/177. | | | | | |
|  NSE0_00678 3VL9800-1S.00, 3VL9800-1U.00 | **Shunt releases[1])** For retrofitting | | | | | | | |
| | V AC / V DC / Mounting side | | | | | | | |
| | 24 / 24 / Right pole only | | 3VL9800-1SC00 | | 1 | 1 unit | 1CC | 0.151 |
| | -- / 48 ... 60 / Right pole only | | 3VL9800-1SJ00 | | 1 | 1 unit | 1CC | 0.150 |
| | -- / 110 ... 127 / Right pole only | | 3VL9800-1SK00 | | 1 | 1 unit | 1CC | 0.153 |
| | -- / 220 ... 250 / Right pole only | | 3VL9800-1SQ00 | | 1 | 1 unit | 1CC | 0.150 |
| | 48 ... 60 / -- / Right pole only | | 3VL9800-1SM00 | | 1 | 1 unit | 1CC | 0.150 |
| | 110 ... 127 / -- / Right pole only | | 3VL9800-1SR00 | | 1 | 1 unit | 1CC | 0.155 |
| | 208 ... 277 / -- / Right pole only | | 3VL9800-1ST00 | | 1 | 1 unit | 1CC | 0.149 |
| | 380 ... 600 / -- / Right pole only | | 3VL9800-1SV00 | | 1 | 1 unit | 1CC | 0.150 |
| | **Undervoltage releases** For retrofitting | | | | | | | |
| | V AC / V DC / Mounting side | | | | | | | |
| | -- / 12 / Right pole only | | 3VL9800-1UN00 | | 1 | 1 unit | 1CC | 0.123 |
| | -- / 24 / Right pole only | | 3VL9800-1UP00 | | 1 | 1 unit | 1CC | 0.119 |
| | -- / 48 / Right pole only | | 3VL9800-1UU00 | | 1 | 1 unit | 1CC | 0.114 |
| | -- / 60 / Right pole only | | 3VL9800-1UV00 | | 1 | 1 unit | 1CC | 0.115 |
| | 24 / -- / Right pole only | | 3VL9800-1UD00 | | 1 | 1 unit | 1CC | 0.118 |
| | 110 ... 127 / -- / Right pole only | | 3VL9800-1UG00 | | 1 | 1 unit | 1CC | 0.114 |
| | -- / 110 ... 127 / Right pole only | | 3VL9800-1UR00 | | 1 | 1 unit | 1CC | 0.115 |
| | 208 / -- / Right pole only | | 3VL9800-1UM00 | | 1 | 1 unit | 1CC | 0.114 |
| | 220 ... 250 / -- / Right pole only | | 3VL9800-1UH00 | | 1 | 1 unit | 1CC | 0.114 |
| | -- / 220 ... 250 / Right pole only | | 3VL9800-1US00 | | 1 | 1 unit | 1CC | 0.114 |
| | 277 / -- / Right pole only | | 3VL9800-1UQ00 | | 1 | 1 unit | 1CC | 0.121 |
| | 380 ... 415 / -- / Right pole only | | 3VL9800-1UJ00 | | 1 | 1 unit | 1CC | 0.112 |
| | 440 ... 480 / -- / Right pole only | | 3VL9800-1UK00 | | 1 | 1 unit | 1CC | 0.115 |
| | 500 ... 525 / -- / Right pole only | | 3VL9800-1UL00 | | 1 | 1 unit | 1CC | 0.116 |
| | **Time-delay devices for undervoltage releases (220 ... 250 V DC)** Rated control supply voltage $U_s$ 220 ... 250 V AC | | | | | | | |
| | Delay time > 200 ms | | 3TX4701-0AN1 | | 1 | 1 unit | 41B | 0.168 |
| | **Storage devices for shunt releases (208 ... 277 V AC/220 ... 250 V DC)** Rated control supply voltage $U_s$ 220 V ... 240 V AC/220 V ... 250 V DC | | | | | | | |
| | Storage time 5 min | | 3WL9111-0BA14-0AA0 | | 1 | 1 unit | 1CA | 0.520 |

[1]) Shunt releases with disconnection contact (3SB3 for ON/OFF position) not floating (see Technical Information at www.siemens.com/lowvoltage/product-support).



* You can order this quantity or a multiple thereof.

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| For circuit breakers<br>Type | Maximum combination of auxiliary switches (HS) and alarm switches (AS) | DT | Article No.<br>www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx.<br>kg |
|---|---|---|---|---|---|---|---|---|
| **3SB adapters and 3SB contact blocks** | | | | | | | | |
| ***Mounting adapters for auxiliary and alarm switch combinations*** | | | | | | | | |
| **For installation in the N pole of the circuit breaker** | | | | | | | | |
| VL160X, VL160, VL250, VL400 (3VL1 to 3VL4) | Up to 3 HS[1] | | 3VL9400-2AH00 | | 1 | 1 unit | 1CC | 0.038 |
| | 2 HS + 1 AS[1)2)] | | -- | | | | | |
| VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8) | Up to 4 HS | | 3VL9816-2AL00 | | 1 | 1 unit | 1CC | 0.053 |
| | 2 HS + 2 AS | | -- | | | | | |
| **For installation in the left pole of the circuit breaker** | | | | | | | | |
| VL160X, VL160, VL250, VL400 (3VL1 to 3VL4) | Up to 3 HS[1] | | 3VL9400-2AH00 | | 1 | 1 unit | 1CC | 0.038 |
| | 2 HS + 1 AS[1)2)] | | 3VL9400-2AJ10 | | 1 | 1 unit | 1CC | 0.040 |
| VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8) | Up to 4 HS | | 3VL9816-2AL00 | | 1 | 1 unit | 1CC | 0.053 |
| | 2 HS + 2 AS | | 3VL9816-2AN10 | | 1 | 1 unit | 1CC | 0.058 |
| **For installation in the right pole of the circuit breaker** | | | | | | | | |
| VL160X, VL160, VL250, VL400 (3VL1 to 3VL4)[2)] | Up to 3 HS[1] | | 3VL9400-2AH00 | | 1 | 1 unit | 1CC | 0.038 |
| | 2 HS + 1 AS[1)2)] | | 3VL9400-2AJ20 | | 1 | 1 unit | 1CC | 0.039 |
| VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8) | Up to 4 HS | | 3VL9816-2AL00 | | 1 | 1 unit | 1CC | 0.053 |
| | 2 HS + 2 AS | | -- | | | | | |

1) Except for installing in the left pole for VL160X (3VL1) molded case circuit breakers with RCD module.

2) In the case of VL400: 3VL9400-2AJ20 unsuitable for mounting in the right-hand accessory compartment.

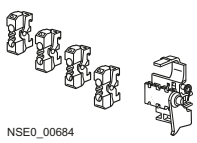
| For auxiliary switches (HS) and alarm switches (AS) | DT | Circuit breakers<br>Type<br>**VL160X to VL1600 (3VL1 to 3VL8)**<br>Article No.<br>www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx.<br>kg |
|---|---|---|---|---|---|---|---|
| **Contact blocks for auxiliary switch (HS) and alarm switch (AS) combinations** | | | | | | | |
| 1 NO | | 3SB3400-0J | | 1 | 1 unit | 41J | 0.009 |
| 1 NC | | 3SB3400-0K | | 1 | 1 unit | 41J | 0.009 |

For auxiliary switch or alarm switch combinations not included in the kits provided as standard, the mounting adapters specified can be ordered separately together with the required contact blocks:
1 HS or 1 AS with NO contact 3SB3400-0J
1 HS or 1 AS with NC contact 3SB3400-0K

Note:

A maximum of 6 contact blocks (HS) per circuit breaker (VL160X, VL160, VL250, VL400; 3VL1 to 3VL4) and a maximum of 8 contact blocks (HS) per circuit breaker (VL630, VL800, VL1250, VL1600; 3VL5 to 3VL8) are possible.

Four 3SB34 auxiliary contact blocks and one mounting adapter (right), suitable for VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8) circuit breakers.



NSE0_00684

For retrofitting/equipment options, see Technical Information at www.siemens.com/lowvoltage/product-support.

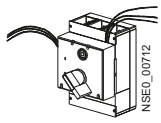
*** You can order this quantity or a multiple thereof.**

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## Accessories and spare parts



| | Version | DT | For VL160X to VL250 (3VL1 to 3VL3) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Manual operating mechanisms** | | | | | | | | |
| | ***3- or 4-pole*** | | | | | | | |
|  3VL9.00-3H.00 | **Front-operated rotary operating mechanisms**[1] For direct mounting on the circuit breaker, without leading auxiliary switch, degree of protection IP30[2], black, max. 3 padlocks | | 3VL9300-3HA00 | | 1 | 1 unit | 1CC | 0.534 |
| | EMERGENCY-STOP version | | | | | | | |
| | Red knob, yellow indicator plate | | 3VL9300-3HC00 | | 1 | 1 unit | 1CC | 0.500 |
| | Safety locks for installation by the customer, see pages 2/200 to 2/204. | | | | | | | |
|  3VL9300-3HE00 | **Front-operated rotary operating mechanisms with shaft stub, without knob**[1] Without leading auxiliary switch, for auxiliary switches, see below. | | 3VL9300-3HE00 | | 1 | 1 unit | 1CC | 0.411 |
|  3VL9.00-3H.05 | **Door-coupling rotary operating mechanisms, complete**[1] **Installation in doors and covers** Degree of protection IP65, including handle ti-grey, with masking plate, indicator plate, removable door coupling (die cast with reduced tolerance compensation), extension shaft (8 × 8 mm), length 300 mm and front-operated rotary operating mechanism for the respective circuit breaker, lockable with up to 3 padlocks, with door interlocking | | 3VL9300-3HF05 | | 1 | 1 unit | 1CC | 0.800 |
| | EMERGENCY-STOP version | | | | | | | |
| | Red knob, yellow indicator plate, without leading auxiliary switch | | 3VL9300-3HG05 | | 1 | 1 unit | 1CC | 0.800 |
| | Safety locks for installation by the customer, see pages 2/200 to 2/204. | | | | | | | |
|  3VL9.00-3A.10 | **Leading auxiliary switches for installation in a front-operated rotary operating mechanism, door-coupling rotary operating mechanism or side panel rotary operating mechanism** Standard or EMERGENCY-STOP version | | | | | | | |
| | "OFF after ON" Leading auxiliary switches when switching on | | | | | | | |
| | 1 changeover contact with 1.5 m long cables | | 3VL9300-3AS10 | | 1 | 1 unit | 1CC | 0.113 |
| | 2 changeover contacts with 1.5 m long cables | | 3VL9300-3AT10 | | 1 | 1 unit | 1CC | 0.183 |
| | "ON after OFF" Leading auxiliary switches when switching off | | | | | | | |
| | 1 changeover contact with 1.5 m long cables | | 3VL9300-3AU10 | | 1 | 1 unit | 1CC | 0.119 |
| | 2 changeover contacts with 1.5 m long cables | | 3VL9300-3AW10 | | 1 | 1 unit | 1CC | 0.189 |
| | **Side panel rotary operating mechanisms, complete**[1] Degree of protection IP65, including black knob with masking plate, indicator plate, Bowden wire, lockable with up to 3 padlocks | | | | | | | |
| | - With 600 mm Bowden wire | | 3VL9300-3HR10 | | 1 | 1 unit | 1CC | 1.758 |
| | - With 1000 mm Bowden wire | | 3VL9300-3HR20 | | 1 | 1 unit | 1CC | 2.100 |
| | - With 1500 mm Bowden wire | | 3VL9300-3HR30 | | 1 | 1 unit | 1CC | 1.900 |
| | **Side panel rotary operating mechanisms, complete**[1] EMERGENCY-STOP version Degree of protection IP65, including red knob with masking plate, yellow indicator plate, Bowden wire, lockable with up to 3 padlocks | | | | | | | |
| | - With 600 mm Bowden wire | | 3VL9300-3HR11 | | 1 | 1 unit | 1CC | 2.100 |
| | - With 1000 mm Bowden wire | | 3VL9300-3HR21 | | 1 | 1 unit | 1CC | 2.100 |
| | - With 1500 mm Bowden wire | | 3VL9300-3HR31 | | 1 | 1 unit | 1CC | 2.100 |
| | **Retaining brackets, suitable for matching door-coupling rotary operating mechanisms, complete with locking device** | | | | | | | |
| | Retaining bracket is mounted on the operating mechanism, recommended for extension shafts > 250 mm | | 3VL9300-3HP02 | | 1 | 1 unit | 1CC | 0.409 |
| | - For 6 mm shaft | | 3VL9300-3HP00 | | 1 | 1 unit | 1CC | 0.385 |

Additional accessories and components for door-coupling rotary operating mechanism, see pages 2/183 and 2/185.

1) Not possible on VL160X with RCD module.
2) IP40 with additional masking frame mounted on the door cutout



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| DT | For VL400 (3VL4) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL630 (3VL5) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9400-3HA00 | | 1 | 1 unit | 1CC | 1.281 | | 3VL9600-3HA00 | | 1 | 1 unit | 1CC | 1.373 |
| | 3VL9400-3HC00 | | 1 | 1 unit | 1CC | 1.291 | | 3VL9600-3HC00 | | 1 | 1 unit | 1CC | 1.404 |
| | 3VL9400-3HE00 | | 1 | 1 unit | 1CC | 1.126 | | 3VL9600-3HE00 | | 1 | 1 unit | 1CC | 1.154 |
| | 3VL9400-3HF05 | | 1 | 1 unit | 1CC | 1.510 | | 3VL9600-3HF05 | | 1 | 1 unit | 1CC | 1.660 |
| | 3VL9400-3HG05 | | 1 | 1 unit | 1CC | 1.569 | | 3VL9600-3HG05 | | 1 | 1 unit | 1CC | 1.640 |
| | 3VL9400-3AS10 | | 1 | 1 unit | 1CC | 0.098 | | 3VL9600-3AS10 | | 1 | 1 unit | 1CC | 0.109 |
| | 3VL9400-3AT10 | | 1 | 1 unit | 1CC | 0.181 | | 3VL9600-3AT10 | | 1 | 1 unit | 1CC | 0.178 |
| | 3VL9400-3AU10 | | 1 | 1 unit | 1CC | 0.114 | | 3VL9600-3AU10 | | 1 | 1 unit | 1CC | 0.111 |
| | 3VL9400-3AW10 | | 1 | 1 unit | 1CC | 0.185 | | 3VL9600-3AW10 | | 1 | 1 unit | 1CC | 0.181 |
| | 3VL9400-3HR10 | | 1 | 1 unit | 1CC | 2.640 | | 3VL9500-3HR10 | | 1 | 1 unit | 1CC | 2.675 |
| | 3VL9400-3HR20 | | 1 | 1 unit | 1CC | 2.657 | | 3VL9500-3HR20 | | 1 | 1 unit | 1CC | 2.852 |
| | 3VL9400-3HR30 | | 1 | 1 unit | 1CC | 2.525 | | 3VL9500-3HR30 | | 1 | 1 unit | 1CC | 2.852 |
| | 3VL9400-3HR11 | | 1 | 1 unit | 1CC | 2.619 | | 3VL9500-3HR11 | | 1 | 1 unit | 1CC | 2.870 |
| | 3VL9400-3HR21 | | 1 | 1 unit | 1CC | 2.660 | | 3VL9500-3HR21 | | 1 | 1 unit | 1CC | 2.889 |
| | 3VL9400-3HR31 | | 1 | 1 unit | 1CC | 3.500 | | 3VL9500-3HR31 | | 1 | 1 unit | 1CC | 2.940 |
| | 3VL9400-3HP00 | | 1 | 1 unit | 1CC | 0.516 | | 3VL9600-3HP00 | | 1 | 1 unit | 1CC | 0.562 |
| | -- | | | | | | | -- | | | | | |

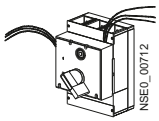
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## Accessories and spare parts



| | Version | DT | For VL800 (3VL6) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Manual operating mechanisms** | | | | | | | | |
| | ***3- or 4-pole*** | | | | | | | |
|  3VL9.00-3H.00 | **Front-operated rotary operating mechanisms** For direct mounting on the circuit breaker, without leading auxiliary switch, degree of protection IP30[1], black, max. 3 padlocks | | 3VL9600-3HA00 | | 1 | 1 unit | 1CC | 1.373 |
| | EMERGENCY-STOP version Red knob, yellow indicator plate | | 3VL9600-3HC00 | | 1 | 1 unit | 1CC | 1.404 |
| | Safety locks for installation by the customer, see pages 2/200 to 2/204. | | | | | | | |
|  3VL9.00-3H.05 | **Front-operated rotary operating mechanisms with shaft stub, without knob** Without leading auxiliary switch, for auxiliary switches, see below. | | 3VL9600-3HE00 | | 1 | 1 unit | 1CC | 1.154 |
|  3VL9.00-3H.05 | **Door-coupling rotary operating mechanisms, complete Installation in doors and covers** Degree of protection IP65, including handle, ti-grey, with masking plate, indicator plate, detachable door coupling (die cast, for VL800 (3VL6) with reduced tolerance compensation), extension shaft (8 × 8 mm for VL800 (3VL6), 12 × 12 mm for VL1250 (3VL7) and VL1600 (3VL8), length 300 mm and front-operated rotary operating mechanism for the respective circuit breaker, lockable with max. 3 padlocks, with door interlocking | | 3VL9600-3HF05 | | 1 | 1 unit | 1CC | 1.660 |
| | EMERGENCY-STOP version, Red knob, yellow indicator plate, without leading auxiliary switch | | 3VL9600-3HG05 | | 1 | 1 unit | 1CC | 1.640 |
| | Safety locks for installation by the customer, see pages 2/200 to 2/204. | | | | | | | |
|  3VL9.00-3A.10 | **Leading auxiliary switches for installation in a front-operated rotary operating mechanism or door-coupling rotary operating mechanism** Standard or EMERGENCY-STOP version | | | | | | | |
| | "OFF after ON" Leading auxiliary switches when switching on | | | | | | | |
| | 1 changeover contact with 1.5 m long cables | | 3VL9600-3AS10 | | 1 | 1 unit | 1CC | 0.109 |
| | 2 changeover contacts with 1.5 m long cables | | 3VL9600-3AT10 | | 1 | 1 unit | 1CC | 0.178 |
| | "ON after OFF" Leading auxiliary switches when switching off | | | | | | | |
| | 1 changeover contact with 1.5 m long cables | | 3VL9600-3AU10 | | 1 | 1 unit | 1CC | 0.111 |
| | 2 changeover contacts with 1.5 m long cables | | 3VL9600-3AW10 | | 1 | 1 unit | 1CC | 0.181 |
| | **Retaining brackets, suitable for matching door-coupling rotary operating mechanisms, complete with locking device** | | | | | | | |
| | Retaining bracket is mounted on the operating mechanism, recommended for extension shafts > 250 mm | | 3VL9600-3HP00 | | 1 | 1 unit | 1CC | 0.562 |

Additional accessories and components for door-coupling rotary operating mechanism, see pages 2/183 and 2/185.

[1] IP40 with additional masking frame mounted on the door cutout.



* You can order this quantity or a multiple thereof.

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| DT | For VL1250 to VL1600 (3VL7 to 3VL8)<br>Article No.<br>www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx.<br>kg |
|---|---|---|---|---|---|---|
| | **3VL9800-3HA00** | | 1 | 1 unit | 1CC | 3.562 |
| | **3VL9800-3HC00** | | 1 | 1 unit | 1CC | 3.580 |
| | **3VL9800-3HE00** | | 1 | 1 unit | 1CC | 2.859 |
| | **3VL9800-3HF05** | | 1 | 1 unit | 1CC | 3.940 |
| | **3VL9800-3HG05** | | 1 | 1 unit | 1CC | 3.980 |
| | **3VL9800-3AS20** | | 1 | 1 unit | 1CC | 0.150 |
| | **3VL9800-3AT20** | | 1 | 1 unit | 1CC | 0.203 |
| | **3VL9800-3AU10** | | 1 | 1 unit | 1CC | 0.120 |
| | **3VL9800-3AW10** | | 1 | 1 unit | 1CC | 0.192 |
| | **3VL9800-3HP00** | | 1 | 1 unit | 1CC | 0.630 |

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## Accessories and spare parts



| Version | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|
| **Motorized operating mechanisms** | | | | | | | |
| ***3- or 4-pole*** | | | | | | | |
|  3VL9.00-3M.00 | | | | | | | |
| **Motorized operating mechanisms with stored energy mechanisms (SEO) for synchronization tasks[1)2)]** Degree of protection IP30, with locking device for 3 padlocks | | **For VL160X to VL250 (3VL1 to 3VL3)** | | | | | |
| 50/60 Hz V AC / V DC | | | | | | | |
| -- / 24 | | 3VL9300-3MJ00 | | 1 | 1 unit | 1CC | 2.755 |
| 42 ... 48 / 42 ... 48 | | 3VL9300-3ML00 | | 1 | 1 unit | 1CC | 2.810 |
| 60 / 60 | | 3VL9300-3MS00 | | 1 | 1 unit | 1CC | 2.773 |
| 110 ... 127 / 110 ... 127 | | 3VL9300-3MN00 | | 1 | 1 unit | 1CC | 2.782 |
| 220 ... 250 / 220 ... 250 | | 3VL9300-3MQ00 | | 1 | 1 unit | 1CC | 2.802 |
| | | **For VL400 (3VL4)** | | | | | |
| 50/60 Hz V AC / V DC | | | | | | | |
| -- / 24 | | 3VL9400-3MJ00 | | 1 | 1 unit | 1CC | 4.610 |
| 42 ... 48 / 42 ... 48 | | 3VL9400-3ML00 | | 1 | 1 unit | 1CC | 4.594 |
| 60 / 60 | | 3VL9400-3MS00 | | 1 | 1 unit | 1CC | 4.596 |
| 110 ... 127 / 110 ... 127 | | 3VL9400-3MN00 | | 1 | 1 unit | 1CC | 4.602 |
| 220 ... 250 / 220 ... 250 | | 3VL9400-3MQ00 | | 1 | 1 unit | 1CC | 4.593 |
| | | **For VL630 and VL800 (3VL5 and 3VL6)** | | | | | |
| 50/60 Hz V AC / V DC | | | | | | | |
| -- / 24 | | 3VL9600-3MJ00 | | 1 | 1 unit | 1CC | 5.630 |
| 42 ... 48 / 42 ... 48 | | 3VL9600-3ML00 | | 1 | 1 unit | 1CC | 5.486 |
| 60 / 60 | | 3VL9600-3MS00 | | 1 | 1 unit | 1CC | 5.662 |
| 110 ... 127 / 110 ... 127 | | 3VL9600-3MN00 | | 1 | 1 unit | 1CC | 5.473 |
| 220 ... 250 / 220 ... 250 | | 3VL9600-3MQ00 | | 1 | 1 unit | 1CC | 5.639 |
|  3VL9.00-3M.10 | | | | | | | |
| **Motorized operating mechanisms (MO)[1)]** Degree of protection IP30, with locking device for 3 padlocks | | **For VL160X (3VL1)** | | | | | |
| 50/60 Hz V AC / V DC | | | | | | | |
| -- / 24 | | 3VL9100-3MA10 | | 1 | 1 unit | 1CC | 1.807 |
| 42 ... 60 / 42 ... 60 | | 3VL9100-3MC10 | | 1 | 1 unit | 1CC | 1.790 |
| 110 ... 127 / 110 ... 127 | | 3VL9100-3MD10 | | 1 | 1 unit | 1CC | 1.770 |
| 220 ... 250 / 220 ... 250 | | 3VL9100-3ME10 | | 1 | 1 unit | 1CC | 1.802 |
| | | **For VL160 and VL250 (3VL2 and 3VL3)** | | | | | |
| 50/60 Hz V AC / V DC | | | | | | | |
| -- / 24 | | 3VL9300-3MA10 | | 1 | 1 unit | 1CC | 1.800 |
| 42 ... 60 / 42 ... 60 | | 3VL9300-3MC10 | | 1 | 1 unit | 1CC | 1.799 |
| 110 ... 127 / 110 ... 127 | | 3VL9300-3MD10 | | 1 | 1 unit | 1CC | 1.797 |
| 220 ... 250 / 220 ... 250 | | 3VL9300-3ME10 | | 1 | 1 unit | 1CC | 1.805 |
| | | **For VL400 (3VL4)** | | | | | |
| 50/60 Hz V AC / V DC | | | | | | | |
| -- / 24 | | 3VL9400-3MA10 | | 1 | 1 unit | 1CC | 2.298 |
| 42 ... 60 / 42 ... 60 | | 3VL9400-3MC10 | | 1 | 1 unit | 1CC | 2.330 |
| 110 ... 127 / 110 ... 127 | | 3VL9400-3MD10 | | 1 | 1 unit | 1CC | 2.320 |
| 220 ... 250 / 220 ... 250 | | 3VL9400-3ME10 | | 1 | 1 unit | 1CC | 2.325 |
| | | **For VL630 and VL800 (3VL5 and 3VL6)** | | | | | |
| 50/60 Hz V AC / V DC | | | | | | | |
| -- / 24 | | 3VL9600-3MA10 | | 1 | 1 unit | 1CC | 2.310 |
| 42 ... 60 / 42 ... 60 | | 3VL9600-3MC10 | | 1 | 1 unit | 1CC | 2.261 |
| 110 ... 127 / 110 ... 127 | | 3VL9600-3MD10 | | 1 | 1 unit | 1CC | 2.329 |
| 220 ... 250 / 220 ... 250 | | 3VL9600-3ME10 | | 1 | 1 unit | 1CC | 2.332 |
| | | **For VL1250 and VL1600[2)] (3VL7 and 3VL8)** | | | | | |
| 50/60 Hz V AC / V DC | | | | | | | |
| -- / 24 | | 3VL9800-3MJ00 | | 1 | 1 unit | 1CC | 7.910 |
| 42 ... 48 / 42 ... 48 | | 3VL9800-3ML00 | | 1 | 1 unit | 1CC | 7.945 |
| 60 / 60 | | 3VL9800-3MS00 | | 1 | 1 unit | 1CC | 7.945 |
| 110 ... 127 / 110 ... 127 | | 3VL9800-3MN00 | | 1 | 1 unit | 1CC | 7.861 |
| 220 ... 250 / 220 ... 250 | | 3VL9800-3MQ00 | | 1 | 1 unit | 1CC | 7.865 |
| **Toggle lever extension** | | | | | | | |
| **Toggle lever extension** | | **For VL400 up to VL1600 (3VL4 to 3VL8)** | | | | | |
| • For VL400 (3VL4) | | 3VL9400-3HN00 | | 1 | 1 unit | 1CC | 0.023 |
| • For VL630 and VL800 (3VL5 and 3VL6) | | 3VL9600-3HN00 | | 1 | 1 unit | 1CC | 0.027 |
| • For VL1250 and VL1600 (3VL7 and 3VL8) | | 3VL9800-3HN00 | | 1 | 1 unit | 1CC | 0.251 |

1) Not possible on VL160X with RCD module.

2) For safety lock as an assembly kit for retrofitting see pages 2/200 to 2/204.



* You can order this quantity or a multiple thereof.

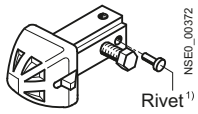
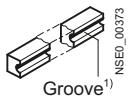
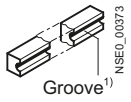
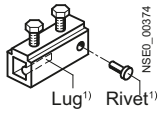
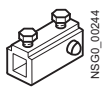
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| | Switching devices | Rotary operating mechanisms | Size | Cross-section of the actuating shaft | Version[1] | DT | **Individual parts for 8UC7 door-coupling rotary operating mechanisms** | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Article No. www.siemens.com/product?Article No. / Price per PU | | | | |
| | Type | Type | | mm × mm | | | | | | | kg |
| **Individual parts for 8UC door-coupling rotary operating mechanisms[2]** | | | | | | | | | | | |
|  8UC7110-1BB | **Handles with masking plate (including flat gasket and fixing screws)** | | | | | | | | | | |
| | 3VL1, 3VL2, 3VL3 | 8UC71 | 1 | 6 × 6 or 8 × 8 | Standard | | **8UC7110-6BD** | 1 | 1 unit | 1CL | 0.185 |
| | | | | | EMERGENCY-STOP | | **8UC7120-8BD** | 1 | 1 unit | 1CL | 0.183 |
|  8UC7210-6BD | 3VL4, 3VL5, 3VL6 | 8UC72 | 2 | 8 × 8 | Standard | | **8UC7210-6BD** | 1 | 1 unit | 1CL | 0.200 |
| | | | | | EMERGENCY-STOP | | **8UC7220-8BD** | 1 | 1 unit | 1CL | 0.194 |
|  8UC7310-1BB | 3VL7, 3VL8 | 8UC73 | 3 | 12 × 12 | Standard | | **8UC7310-6BD** | 1 | 1 unit | 1CL | 0.508 |
| | | | | | EMERGENCY-STOP | | **8UC7320-8BD** | 1 | 1 unit | 1CL | 0.488 |

[1] Standard: Ti-grey handle, light-gray masking plate; EMERGENCY-STOP: Red handle, yellow masking plate.

[2] Cannot be used for side panel rotary operating mechanisms

| | Rotary operating mechanisms | Cross-section of the actuating shaft | DT | **Individual parts for 8UC6 door-coupling rotary operating mechanisms** | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|
| | | | | Article No. www.siemens.com/product?Article No. / Price per PU | | | | |
| | Type | mm × mm | | | | | | kg |
| **Individual parts for 8UC door-coupling rotary operating mechanisms** | | | | | | | | |
|   8UC6014 | **Coupling drivers for 3VL** | | | | | | | |
| | 8UC71 (plastic) | 6 × 6 | | **8UC7011-2AA** | 1 | 1 unit | 1CL | 0.051 |
| | 8UC71/8UC72[2] (die cast) | 8 × 8 | | **8UC6017-2AA** | 1 | 1 unit | 1CL | 0.047 |
| | 8UC73/74 (die cast) | 12 × 12 | | **8UC6014** | 1 | 1 unit | 1CL | 0.234 |
|   8UC6031 | **Extension shafts 300 mm long** | | | | | | | |
| | 8UC71 | 6 × 6 | | **8UC6031** | 1 | 1 unit | 1CL | 0.068 |
| | 8UC71/8UC72 | 8 × 8 | | **8UC6032** | 1 | 1 unit | 1CL | 0.135 |
| | 8UC73 | 10 × 10 | | **8UC6033** | 1 | 1 unit | 1CL | 0.215 |
| | 8UC73/74 | 12 × 12 | | **8UC6034** | 1 | 1 unit | 1CL | 0.316 |
|   8UC6081 | **Extension shafts 600 mm long** | | | | | | | |
| | 8UC71 | 6 × 6 | | **8UC6081** | 1 | 1 unit | 1CL | 0.136 |
| | 8UC71/8UC72 | 8 × 8 | | **8UC6082** | 1 | 1 unit | 1CL | 0.265 |
| | 8UC73 | 10 × 10 | | **8UC6083** | 1 | 1 unit | 1CL | 0.424 |
| | 8UC73/74 | 12 × 12 | | **8UC6084** | 1 | 1 unit | 1CL | 0.628 |
|   8UC6021 to 8UC6024 | **Shaft couplings** | | | | | | | |
| | 8UC71 | 6 × 6 | | **8UC6021** | 1 | 1 unit | 1CL | 0.027 |
| | 8UC72 | 8 × 8 | | **8UC6022** | 1 | 1 unit | 1CL | 0.022 |
| | 8UC73 | 10 × 10 | | **8UC6023** | 1 | 1 unit | 1CL | 0.084 |
| | 8UC73/74 | 12 × 12 | | **8UC6024** | 1 | 1 unit | 1CL | 0.078 |
|   8UC7058 | **Reducers** | | | | | | | |
| | 8UC71 | 8 × 8 to 6 × 6 | | **8UC7058** | 1 | 1 unit | 1CL | 0.024 |
| | 8UC72 | 12 × 12 to 8 × 8 | | **8UC7050** | 1 | 1 unit | 1CL | 0.080 |

[1] Non-interchangeability features.

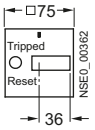
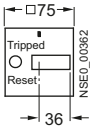
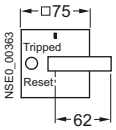
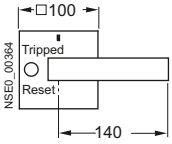
[2] Shortened coupling driver with reduced tolerance compensation.

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## Accessories and spare parts



| | Switching devices | Rated current | Cross-section of the actuating shaft | Torque | Rotary operating mecha-nisms | Illustrated: Handle, masking plate |
|---|---|---|---|---|---|---|
| | Type | A | mm | Nm | Size | |
| **8UC door-coupling rotary operating mechanisms** | | | | | | |
| ***8UC71 – 3VL circuit breakers*** | | | | | | |
|  | 3VL1 | 16 ... 160 | 6 × 6 | 4 | 1 |   |
| | 3VL2 | 50 ... 160 | 6 × 6 | 4 | | |
| | 3VL3 | 200... 250 | 6 × 6 | 4 | | |
|  | 3VL1 | 16 ... 160 | 8 × 8 | 4 | 1 |   |
| | 3VL2 | 50 ... 160 | 8 × 8 | 4 | | |
| | 3VL3 | 200... 250 | 8 × 8 | 4 | | |
| | (Supplied with door-coupling rotary operating mechanism, complete 3VL9300-3H.05) | | | | | |
| ***8UC72 – 3VL circuit breakers*** | | | | | | |
|  | 3VL4 | 200 ... 400 | 8 × 8 | 9 | 2 |   |
| | 3VL5 | 315 ... 600 | 8 × 8 | 9 | | |
| | 3VL6 | 320 ... 800 | 8 × 8 | 9 | | |
| ***8UC73 – 3VL circuit breakers*** | | | | | | |
|  | 3VL7 | 400 ... 1250 | 12 × 12 | 25 | 3 |   |
| | 3VL8 | 640 ... 1600 | 12 × 12 | 25 | | |

[1] Requires in addition a front-operated rotary operating mechanism with shaft stub for direct mounting to the circuit breaker. For ordering the complete operating mechanism, see pages 2/178 to 2/181.

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| Version | DT | **Rotary operating mechanisms, complete**[1] | | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. | Individual parts of the rotary operating mechanism | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Standard: Ti-grey handle, light-gray masking plate<br>EMERGENCY-STOP: Red handle, yellow masking plate | | Article No.<br>www.siemens.com/product?Article No. | Price per PU | | | | kg | Handle with masking plate<br>Article No. | Coupling drivers<br>Article No. | Extension shaft (length 300 mm)<br>Article No. | Reducer/ shaft coupling<br>Article No. |
| | | | | | | | | | **☐ 6 mm** | **☐ 6 mm** | **☐ 8 mm by 6 mm** |
| Standard | | **8UC7111-6BD15** | | 1 | 1 unit | 1CL | 0.359 | 8UC7110-6BD | 8UC7011-2AA | 8UC6031 | 8UC7058 |
| EMERGENCY-STOP<br>(coupling driver made of plastic) | | **8UC7121-8BD15** | | 1 | 1 unit | 1CL | 0.336 | 8UC7120-8BD | 8UC7011-2AA | 8UC6031 | 8UC7058 |
| | | | | | | | | | **☐ 8 mm** | **☐ 8 mm** | **☐ 8 mm by 8 mm** |
| Standard | | **8UC7162-6BD22** | | 1 | 1 unit | 1CL | 0.415 | 8UC7110-6BD | 8UC6017-2AA | 8UC6032 | 8UC6022 |
| EMERGENCY-STOP<br>(Die cast coupling driver with reduced tolerance compensation) | | **8UC7172-8BD22** | | 1 | 1 unit | 1CL | 0.416 | 8UC7120-8BD | 8UC6017-2AA | 8UC6032 | 8UC6022 |
| | | | | | | | | | **☐ 8 mm** | **☐ 8 mm** | **☐ 12 mm by 8 mm** |
| Standard | | **8UC7262-6BD26** | | 1 | 1 unit | 1CL | 0.486 | 8UC7210-6BD | 8UC6017-2AA | 8UC6032 | 8UC7050 |
| EMERGENCY-STOP<br>(Die cast coupling driver with reduced tolerance compensation) | | **8UC7262-8BD26** | | 1 | 1 unit | 1CL | 0.486 | 8UC7220-8BD | 8UC6017-2AA | 8UC6032 | 8UC7050 |
| | | | | | | | | | **☐ 12 mm** | **☐ 12 mm** | **☐ 12 mm by 12 mm** |
| Standard | | **8UC7314-6BD44** | | 1 | 1 unit | 1CL | 1.120 | 8UC7310-6BD | 8UC6014 | 8UC6034 | 8UC6024 |
| EMERGENCY-STOP<br>(Die cast coupling driver) | | **8UC7324-8BD44** | | 1 | 1 unit | 1CL | 1.124 | 8UC7320-8BD | 8UC6014 | 8UC6034 | 8UC6024 |

*** You can order this quantity or a multiple thereof.**

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## Accessories and spare parts



### Plug-in versions/withdrawable versions

| | Version | DT | For VL160X (3VL1) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| | ***3- or 4-pole*** | | | | | | | |
|  3VL9.00-4PA30 | **Plug-in base assembly kits** Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin | | | | | | | |
| | **Rear terminals** | | | | | | | |
| | 3-pole | | 3VL9100-4PA30 | | 1 | 1 unit | 1CC | 2.490 |
| | 3-pole with RCD module | | 3VL9100-4PB30 | | 1 | 1 unit | 1CC | 2.839 |
| | 4-pole | | 3VL9100-4PA40 | | 1 | 1 unit | 1CC | 3.272 |
| | 4-pole with RCD module | | 3VL9100-4PB40 | | 1 | 1 unit | 1CC | 3.622 |
| | **90° angle connecting adapters** | | | | | | | |
| | For rear connection, 3-pole | | 3VL9300-4PE30 | | 1 | 1 unit | 1CC | 0.452 |
| | For rear connection, 4-pole | | 3VL9300-4PE40 | | 1 | 1 unit | 1CC | 0.548 |
| | **Front-accessible connections** | | | | | | | |
| | 3-pole | | 3VL9100-4PC30 | | 1 | 1 unit | 1CC | 2.291 |
| | 3-pole with RCD module | | 3VL9100-4PD30 | | 1 | 1 unit | 1CC | 2.624 |
| | 4-pole | | 3VL9100-4PC40 | | 1 | 1 unit | 1CC | 2.942 |
| | 4-pole with RCD module | | 3VL9100-4PD40 | | 1 | 1 unit | 1CC | 3.502 |
| | **Withdrawable version assembly kits** Upgrade of the plug-in base assembly kit to | | | | | | | |
| | Withdrawable version including side panels and racking mechanism. 3-pole | | -- | | | | | |
| | 3-pole with RCD | | -- | | | | | |
| | 4-pole | | -- | | | | | |
| | 4-pole with RCD | | -- | | | | | |
| | **Withdrawable versions** Same as plug-in base assembly kit, with additional side panels and racking mechanism | | | | | | | |
| | **Rear terminals** | | | | | | | |
| | 3-pole | | -- | | | | | |
| | 3-pole with RCD module | | -- | | | | | |
| | 4-pole | | -- | | | | | |
| | 4-pole with RCD module | | -- | | | | | |
| | **Front-accessible connections** | | | | | | | |
| | 3-pole | | -- | | | | | |
| | 3-pole with RCD module | | -- | | | | | |
| | 4-pole | | -- | | | | | |
| | 4-pole with RCD module | | -- | | | | | |
|  3VL9.00-4WA30 | **Blade contacts** As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin | | | | | | | |
| | 1 set = 6 units 3-pole | | 3VL9100-4PS30 | | 1 | 1 unit | 1CC | 0.312 |
| | 1 set = 8 units 4-pole | | 3VL9100-4PS40 | | 1 | 1 unit | 1CC | 0.396 |
| | **Trip pins and springs** | | | | | | | |
| | As replacement for plug-in/withdrawable circuit breaker | | 3VL9100-4PF00 | | 1 | 1 unit | 1CC | 0.010 |
| | **Auxiliary circuit plug connections for plug-in bases** Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal) | | [1] | | | | | |
| | 8 terminals | | 3VL9300-4PJ00 | | 1 | 1 unit | 1CC | 0.196 |
|  3VL9.00-4WA30 | **Position signaling switches** (Connected/disconnected position) For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible | | 3VL9000-4WL00 | | 1 | 1 unit | 1CC | 0.037 |

[1] It is recommended to use a maximum of 2 auxiliary circuit plug-in systems per circuit breaker (16 terminals).



* You can order this quantity or a multiple thereof.

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| DT | For VL160 (3VL2) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL250 (3VL3) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9200-4PA30 | | 1 | 1 unit | 1CC | 2.504 | | 3VL9300-4PA30 | | 1 | 1 unit | 1CC | 2.606 |
| | 3VL9200-4PB30 | | 1 | 1 unit | 1CC | 2.991 | | 3VL9300-4PB30 | | 1 | 1 unit | 1CC | 3.120 |
| | 3VL9200-4PA40 | | 1 | 1 unit | 1CC | 3.120 | | 3VL9300-4PA40 | | 1 | 1 unit | 1CC | 3.409 |
| | 3VL9200-4PB40 | | 1 | 1 unit | 1CC | 3.614 | | 3VL9300-4PB40 | | 1 | 1 unit | 1CC | 3.762 |
| | 3VL9300-4PE30 | | 1 | 1 unit | 1CC | 0.452 | | 3VL9300-4PE30 | | 1 | 1 unit | 1CC | 0.452 |
| | 3VL9300-4PE40 | | 1 | 1 unit | 1CC | 0.548 | | 3VL9300-4PE40 | | 1 | 1 unit | 1CC | 0.548 |
| | 3VL9200-4PC30 | | 1 | 1 unit | 1CC | 2.254 | | 3VL9300-4PC30 | | 1 | 1 unit | 1CC | 2.400 |
| | 3VL9200-4PD30 | | 1 | 1 unit | 1CC | 2.368 | | 3VL9300-4PD30 | | 1 | 1 unit | 1CC | 2.668 |
| | 3VL9200-4PC40 | | 1 | 1 unit | 1CC | 2.920 | | 3VL9300-4PC40 | | 1 | 1 unit | 1CC | 3.010 |
| | 3VL9200-4PD40 | | 1 | 1 unit | 1CC | 3.395 | | 3VL9300-4PD40 | | 1 | 1 unit | 1CC | 3.500 |
| | 3VL9300-4WF30 | | 1 | 1 unit | 1CC | 2.360 | | 3VL9300-4WF30 | | 1 | 1 unit | 1CC | 2.360 |
| | 3VL9300-4WG30 | | 1 | 1 unit | 1CC | 2.740 | | 3VL9300-4WG30 | | 1 | 1 unit | 1CC | 2.740 |
| | 3VL9300-4WF40 | | 1 | 1 unit | 1CC | 2.740 | | 3VL9300-4WF40 | | 1 | 1 unit | 1CC | 2.740 |
| | 3VL9300-4WG40 | | 1 | 1 unit | 1CC | 3.015 | | 3VL9300-4WG40 | | 1 | 1 unit | 1CC | 3.015 |
| | 3VL9200-4WA30 | | 1 | 1 unit | 1CC | 4.940 | | 3VL9300-4WA30 | | 1 | 1 unit | 1CC | 5.192 |
| | 3VL9200-4WB30 | | 1 | 1 unit | 1CC | 6.301 | | 3VL9300-4WB30 | | 1 | 1 unit | 1CC | 9.800 |
| | 3VL9200-4WA40 | | 1 | 1 unit | 1CC | 5.662 | | 3VL9300-4WA40 | | 1 | 1 unit | 1CC | 5.932 |
| | 3VL9200-4WB40 | | 1 | 1 unit | 1CC | 6.919 | | 3VL9300-4WB40 | | 1 | 1 unit | 1CC | 6.935 |
| | 3VL9200-4WC30 | | 1 | 1 unit | 1CC | 4.987 | | 3VL9300-4WC30 | | 1 | 1 unit | 1CC | 5.100 |
| | 3VL9200-4WD30 | | 1 | 1 unit | 1CC | 6.045 | | 3VL9300-4WD30 | | 1 | 1 unit | 1CC | 6.249 |
| | 3VL9200-4WC40 | | 1 | 1 unit | 1CC | 5.560 | | 3VL9300-4WC40 | | 1 | 1 unit | 1CC | 5.560 |
| | 3VL9200-4WD40 | | 1 | 1 unit | 1CC | 6.732 | | 3VL9300-4WD40 | | 1 | 1 unit | 1CC | 6.895 |
| | 3VL9200-4PS30 | | 1 | 1 unit | 1CC | 0.303 | | 3VL9300-4PS30 | | 1 | 1 unit | 1CC | 0.424 |
| | 3VL9200-4PS40 | | 1 | 1 unit | 1CC | 0.381 | | 3VL9300-4PS40 | | 1 | 1 unit | 1CC | 0.535 |
| | 3VL9300-4PF00 | | 1 | 1 unit | 1CC | 0.006 | | 3VL9300-4PF00 | | 1 | 1 unit | 1CC | 0.006 |
| | 1) 3VL9300-4PJ00 | | 1 | 1 unit | 1CC | 0.196 | | 1) 3VL9300-4PJ00 | | 1 | 1 unit | 1CC | 0.196 |
| | 3VL9000-4WL00 | | 1 | 1 unit | 1CC | 0.037 | | 3VL9000-4WL00 | | 1 | 1 unit | 1CC | 0.037 |

*** You can order this quantity or a multiple thereof.**

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## Accessories and spare parts

| Version | DT | For VL400 (3VL4) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|
| **Plug-in versions/withdrawable versions** | | | | | | | |
| ***3- or 4-pole*** | | | | | | | |
| **Plug-in base assembly kits** Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin | | | | | | | |
| **Rear terminals** | | | | | | | |
| 3-pole | | 3VL9400-4PA30 | | 1 | 1 unit | 1CC | 6.520 |
| 3-pole with RCD module | | --[1] | | | | | |
| 4-pole | | 3VL9400-4PA40 | | 1 | 1 unit | 1CC | 8.380 |
| 4-pole with RCD module | | 3VL9400-4PB40 | | 1 | 1 unit | 1CC | 9.857 |
| **90° angle connecting adapters** | | | | | | | |
| For rear connection, 3-pole | | -- | | | | | |
| For rear connection, 4-pole | | -- | | | | | |
| **Front-accessible connections** | | | | | | | |
| 3-pole | | 3VL9400-4PC30 | | 1 | 1 unit | 1CC | 6.190 |
| 3-pole with RCD module | | --[1] | | | | | |
| 4-pole | | 3VL9400-4PC40 | | 1 | 1 unit | 1CC | 7.690 |
| 4-pole with RCD module | | 3VL9400-4PD40 | | 1 | 1 unit | 1CC | 9.298 |
| **Withdrawable version assembly kits** Upgrade of the plug-in base assembly kit to | | | | | | | |
| Withdrawable version including side panels and racking mechanism. 3-pole | | 3VL9400-4WF30 | | 1 | 1 unit | 1CC | 4.822 |
| 3-pole with RCD | | --[1] | | | | | |
| 4-pole | | 3VL9400-4WF40 | | 1 | 1 unit | 1CC | 4.880 |
| 4-pole with RCD | | 3VL9400-4WG40 | | 1 | 1 unit | 1CC | 6.523 |
| **Withdrawable versions** Same as plug-in base assembly kit, with additional side panels and racking mechanism | | | | | | | |
| **Rear terminals**[3] | | | | | | | |
| 3-pole | | 3VL9400-4WA30 | | 1 | 1 unit | 1CC | 12.650 |
| 3-pole with RCD module | | --[1] | | | | | |
| 4-pole | | 3VL9400-4WA40 | | 1 | 1 unit | 1CC | 14.582 |
| 4-pole with RCD module | | 3VL9400-4WB40 | | 1 | 1 unit | 1CC | 28.300 |
| **Front-accessible connections** | | | | | | | |
| 3-pole | | 3VL9400-4WC30 | | 1 | 1 unit | 1CC | 12.240 |
| 3-pole with RCD module | | --[1] | | | | | |
| 4-pole | | 3VL9400-4WC40 | | 1 | 1 unit | 1CC | 14.240 |
| 4-pole with RCD module | | 3VL9400-4WD40 | | 1 | 1 unit | 1CC | 18.219 |
| **Blade contacts** As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin | | | | | | | |
| 1 set = 6 units 3-pole | | 3VL9400-4PS30 | | 1 | 1 unit | 1CC | 1.292 |
| 1 set = 8 units 4-pole | | 3VL9400-4PS40 | | 1 | 1 unit | 1CC | 1.623 |
| **Trip pins and springs** | | | | | | | |
| As replacement for plug-in/withdrawable circuit breaker | | 3VL9400-4PF00 | | 1 | 1 unit | 1CC | 0.012 |
| **Auxiliary circuit plug connections for plug-in bases** Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal) | | [2] | | | | | |
| 8 terminals | | 3VL9400-4PJ00 | | 1 | 1 unit | 1CC | 0.215 |
| **Position signaling switches** (Connected/disconnected position) For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible | | 3VL9000-4WL00 | | 1 | 1 unit | 1CC | 0.037 |


3VL9.00-4PA30


3VL9.00-4WA30


3VL9000-4WL00

1) For 3-pole applications please use 4-pole withdrawable version with 4-pole RCD module and 4-pole circuit breaker.

2) It is recommended to use a maximum of 3 auxiliary circuit plug-in systems per circuit breaker (24 terminals).

3) With VL800 (3VL6) to VL1600 (3VL8) as vertical connection.



* You can order this quantity or a multiple thereof.

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| DT | For VL630 (3VL5) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL800 (3VL6) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **3VL9500-4PA30** | | 1 | 1 unit | 1CC | 9.186 | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | **3VL9500-4PA40** | | 1 | 1 unit | 1CC | 12.424 | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | **3VL9500-4PC30** | | 1 | 1 unit | 1CC | 8.025 | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | **3VL9500-4PC40** | | 1 | 1 unit | 1CC | 10.720 | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | **3VL9500-4WF30** | | 1 | 1 unit | 1CC | 5.200 | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | **3VL9500-4WF40** | | 1 | 1 unit | 1CC | 4.740 | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | **3VL9500-4WA30** | | 1 | 1 unit | 1CC | 15.360 | | **3VL9600-4WA30** | | 1 | 1 unit | 1CC | 43.880 |
| | -- | | | | | | | -- | | | | | |
| | **3VL9500-4WA40** | | 1 | 1 unit | 1CC | 18.760 | | **3VL9600-4WA40** | | 1 | 1 unit | 1CC | 43.800 |
| | -- | | | | | | | -- | | | | | |
| | **3VL9500-4WC30** | | 1 | 1 unit | 1CC | 14.180 | | **3VL9600-4WC30** | | 1 | 1 unit | 1CC | 44.460 |
| | -- | | | | | | | -- | | | | | |
| | **3VL9500-4WC40** | | 1 | 1 unit | 1CC | 16.945 | | **3VL9600-4WC40** | | 1 | 1 unit | 1CC | 43.213 |
| | -- | | | | | | | -- | | | | | |
| | **3VL9500-4PS30** | | 1 | 1 unit | 1CC | 1.603 | | **3VL9600-4PS30** | | 1 | 1 unit | 1CC | 3.744 |
| | **3VL9500-4PS40** | | 1 | 1 unit | 1CC | 2.101 | | **3VL9600-4PS40** | | 1 | 1 unit | 1CC | 4.965 |
| | **3VL9500-4PF00** | | 1 | 1 unit | 1CC | 0.014 | | **3VL9600-4PF00** | | 1 | 1 unit | 1CC | 0.014 |
| | **2)** | | | | | | | **2)** | | | | | |
| | **3VL9600-4PJ00** | | 1 | 1 unit | 1CC | 0.216 | | **3VL9600-4PJ00** | | 1 | 1 unit | 1CC | 0.216 |
| | **3VL9000-4WL00** | | 1 | 1 unit | 1CC | 0.037 | | **3VL9000-4WL00** | | 1 | 1 unit | 1CC | 0.037 |

*** You can order this quantity or a multiple thereof.**

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## Accessories and spare parts



| | Version | DT | For VL1250 (3VL7) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Plug-in versions/withdrawable versions** | | | | | | | | |
| | ***3- or 4-pole*** | | | | | | | |
|  3VL9.00-4PA30 | **Plug-in base assembly kits**<br>Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin | | | | | | | |
| | **Rear terminals** | | | | | | | |
| | 3-pole | | -- | | | | | |
| | 3-pole with RCD module | | -- | | | | | |
| | 4-pole | | -- | | | | | |
| | 4-pole with RCD module | | -- | | | | | |
| | **90° angle connecting adapters** | | | | | | | |
| | For rear connection, 3-pole | | -- | | | | | |
| | For rear connection, 4-pole | | -- | | | | | |
| | **Front-accessible connections** | | | | | | | |
| | 3-pole | | -- | | | | | |
| | 3-pole with RCD module | | -- | | | | | |
| | 4-pole | | -- | | | | | |
| | 4-pole with RCD module | | -- | | | | | |
| | **Withdrawable version assembly kits**<br>Upgrade of the plug-in base assembly kit to | | | | | | | |
| | Withdrawable version including side panels and racking mechanism. 3-pole | | -- | | | | | |
| | 3-pole with RCD | | -- | | | | | |
| | 4-pole | | -- | | | | | |
| | 4-pole with RCD | | -- | | | | | |
|  3VL9.00-4WA30 | **Withdrawable versions**<br>Same as plug-in base assembly kit, with additional side panels and racking mechanism | | | | | | | |
| | **Rear terminals[1])** | | | | | | | |
| | 3-pole | | 3VL9800-4WA30 | | 1 | 1 unit | 1CC | 43.420 |
| | 3-pole with RCD module | | -- | | | | | |
| | 4-pole | | 3VL9800-4WA40 | | 1 | 1 unit | 1CC | 52.320 |
| | 4-pole with RCD module | | -- | | | | | |
| | **Front-accessible connections** | | | | | | | |
| | 3-pole | | 3VL9800-4WC30 | | 1 | 1 unit | 1CC | 45.000 |
| | 3-pole with RCD module | | -- | | | | | |
| | 4-pole | | 3VL9800-4WC40 | | 1 | 1 unit | 1CC | 53.000 |
| | 4-pole with RCD module | | -- | | | | | |
| | **Blade contacts**<br>As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin | | | | | | | |
| | 1 set = 6 units 3-pole | | 3VL9800-4PS30 | | 1 | 1 unit | 1CC | 3.510 |
| | 1 set = 8 units 4-pole | | 3VL9800-4PS40 | | 1 | 1 unit | 1CC | 4.595 |
| | **Trip pins and springs**<br>As replacement for plug-in/withdrawable circuit breaker | | 3VL9800-4PF00 | | 1 | 1 unit | 1CC | 0.016 |
| | **Auxiliary circuit plug connections for plug-in bases**<br>Accessory connections for plug-in circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal) | | **2)** | | | | | |
| | 8 terminals | | 3VL9800-4PJ00 | | 1 | 1 unit | 1CC | 0.217 |
|  3VL9000-4WL00 | **Position signaling switches**<br>(Connected/disconnected position)<br>For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible | | 3VL9000-4WL00 | | 1 | 1 unit | 1CC | 0.037 |

1) With VL800 (3VL6) to VL1600 (3VL8) as vertical connection.

2) It is recommended to use a maximum of 3 auxiliary circuit plug-in systems per circuit breaker (24 terminals).



* You can order this quantity or a multiple thereof.

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| DT | For VL1600 (3VL8)<br>Article No.<br>www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx.<br>kg |
|---|---|---|---|---|---|---|
| | -- | | | | | |
| | -- | | | | | |
| | -- | | | | | |

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# Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Accessories and spare parts

| Circuit breakers for line protection, **only for TM, starters, disconnectors** | Rated current $I_n$ | Residual currents $I$ adjustable | Delay time $t_d$ adjustable | Rated operational voltage $U_e$ | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | s | V AC | | | | | | | kg |
| **RCD modules** | | | | | | | | | | | |
|  Molded case circuit breakers VL160X to VL400 with RCD module mounted below the circuit breaker | | | | | | | | | | | |
| ***3-pole*** | | | | | | | | | | | |
| VL160X (3VL1) | | 0.03 | Instantaneous | | | | | | | | |
| Bottom mounting[1)2)] | 160 | 0.10 | 0.06 | 127 ... 480 | | **3VL9112-5GA30** | | 1 | 1 unit | 1CC | 1.500 |
| VL160 (3VL2) | 160 | 0.30 | 0.10 | 127 ... 480 | | **3VL9216-5GC30** | | 1 | 1 unit | 1CC | 1.438 |
| | | 0.50 | 0.25 | 230 ... 690 | | **3VL9216-5GD30** | | 1 | 1 unit | 1CC | 1.427 |
| VL250 (3VL3) | 250 | 1.00 | 0.50 | 127 ... 480 | | **3VL9325-5GE30** | | 1 | 1 unit | 1CC | 1.478 |
| | | 3.00 | 1.00 | 230 ... 690 | | **3VL9325-5GF30** | | 1 | 1 unit | 1CC | 1.487 |
| VL400 (3VL4) | 400 | | | 127 ... 480 | | -- | | | | | |
| | | | | 230 ... 690 | | -- | | | | | |
| ***4-pole*** | | | | | | | | | | | |
| VL160X (3VL1) | | 0.03 | Instantaneous | | | | | | | | |
| Bottom mounting[1)2)] | 160 | 0.10 | 0.06 | 127 ... 480 | | **3VL9112-5GA40** | | 1 | 1 unit | 1CC | 1.849 |
| VL160 (3VL2) | 160 | 0.30 | 0.10 | 127 ... 480 | | **3VL9216-5GC40** | | 1 | 1 unit | 1CC | 1.743 |
| | | 0.50 | 0.25 | 230 ... 690 | | **3VL9216-5GD40** | | 1 | 1 unit | 1CC | 1.700 |
| VL250 (3VL3) | 250 | 1.00 | 0.50 | 127 ... 480 | | **3VL9325-5GE40** | | 1 | 1 unit | 1CC | 1.806 |
| | | 3.00 | 1.00 | 230 ... 690 | | **3VL9325-5GF40** | | 1 | 1 unit | 1CC | 1.810 |
| VL400 (3VL4) | 400 | | | 127 ... 480 | | **3VL9440-5GG40** | | 1 | 1 unit | 1CC | 3.327 |
| | | | | 230 ... 690 | | **3VL9440-5GH40** | | 1 | 1 unit | 1CC | 3.325 |

| Circuit breakers for line protection, **only for TM, starters, disconnectors** | Rated current $I_n$ | Residual currents $I$ adjustable | Delay time $t_d$ adjustable | Rated operational voltage $U_e$ | **3-pole circuit breakers** Article No. with **"-Z"** **3VL. . . -. D . . . -. . . . -Z** and additional order code ☐☐☐ Code for further versions **-Z** | Add. price | **4-pole circuit breakers** Article No. with **"-Z"** **3VL. . . -. E . . . -. . . . -Z** and additional order code ☐☐☐ Code for further versions **-Z** | Add. price |
|---|---|---|---|---|---|---|---|---|
| | A | A | s | V AC | | | | |
| **Circuit breakers with RCD module** | | | | | | | | |
|  | | | | | | | | |
| ***3- and 4-pole*** | | | | | | | | |
| VL160X (3VL1) | | 0.03 | Instantaneous | | | | | |
| (Bottom mounting) | 160 | 0.10 | 0.06 | 127 ... 480 | **A 0 1** [1)2)] | ✓ | **A 0 1** [1)2)] | ✓ |
| | | 0.30 | 0.10 | | | | | |
| | | 0.50 | 0.25 | | | | | |
| VL160 (3VL2) | 160 | 1.00 | 0.50 | 127 ... 480 | **A 0 1** | ✓ | **A 0 1** | ✓ |
| | | 3.00 | 1.00 | 230 ... 690 | **A 0 2** | ✓ | **A 0 2** | ✓ |
| VL250 (3VL3) | 250 | | | 127 ... 480 | **A 0 1** | ✓ | **A 0 1** | ✓ |
| | | | | 230 ... 690 | **A 0 2** | ✓ | **A 0 2** | ✓ |
| VL400 (3VL4) | 400 | | | 127 ... 480 | -- | | **A 0 1** | ✓ |
| | | | | 230 ... 690 | -- | | **A 0 2** | ✓ |

### Residual current devices (MRCD)



Modular residual current devices (MRCD) monitor residual currents in electrical systems and trip the molded case circuit breaker via an auxiliary release after an adjustable advance warning if the residual current exceeds a defined value.

See chapter "Monitoring Devices".

✓ Additional price

1) Only the right-hand accessory compartment and the N conductor (4-pole) accessory compartment can be used for the installation of accessories, see Technical Information at www.siemens.com/lowvoltage/product-support.

2) VL160X (3VL1) + RCD module cannot be combined with motorized operating mechanism, front operating mechanism, door-coupling rotary operating mechanism, locking device for toggle levers, screw terminal connections (3VL17..-....6-....) and Bowden wire interlocking.



* You can order this quantity or a multiple thereof.

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| | Version | | DT | For VL160X (3VL1) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|
| **Connection parts for fixed-mounted circuit breakers**[1] | | | | | | | | | |
| | ***3- or 4-pole*** | | | | | | | | |
| | **Front connecting bars**[2]<br>Phase barriers included. | | | | | | | | |
| | Standard | | | | | | | | |
| <br>3VL9216-4EC40 | 1 set = 3 units | 3-pole | | 3VL9216-4EC30 | | 1 | 1 unit | 1CC | 0.212 |
| | 1 set = 4 units | 4-pole | | 3VL9216-4EC40 | | 1 | 1 unit | 1CC | 0.287 |
| | For increased pole spacing | | | | | | | | |
| <br>3VL9216-4ED40 | 1 set = 3 units | 3-pole | | 3VL9216-4ED30 | | 1 | 1 unit | 1CC | 0.224 |
| | 1 set = 4 units | 4-pole | | 3VL9216-4ED40 | | 1 | 1 unit | 1CC | 0.348 |
| | **Rear terminals** | | | | | | | | |
| <br>3VL9.00-4RA00,<br>3VL9.00-4RB00 | Short connection (1 unit) | | | 3VL9100-4RA00 | | 1 | 1 unit | 1CC | 0.163 |
| | Long connection (1 unit) | | | 3VL9100-4RB00 | | 1 | 1 unit | 1CC | 0.260 |
| | Terminal kit (2 short + 1 long)<br>3-pole | | | 3VL9100-4RC30 | | 1 | 1 unit | 1CC | 0.556 |
| | Terminal kit (2 short + 2 long)<br>4-pole | | | 3VL9100-4RF40 | | 1 | 1 unit | 1CC | 0.805 |
| <br>3VL9.00-4RK00,<br>3VL9.00-4RL00 | Short flat connection (1 unit) | | | 3VL9100-4RK00 | | 1 | 1 unit | 1CC | 0.104 |
| | Long flat connection (1 unit) | | | 3VL9100-4RL00 | | 1 | 1 unit | 1CC | 0.222 |
| | Flat connector kit (2 short + 1 long)<br>3-pole | | | 3VL9100-4RM30 | | 1 | 1 unit | 1CC | 0.408 |
| | Flat connector kit (2 short + 2 long)<br>4-pole | | | 3VL9100-4RN40 | | 1 | 1 unit | 1CC | 0.652 |
| <br>3VL9.00-4TC.0 | **Box terminals**<br>For connection for flexible flat copper busbar or cable, see Technical Information at www.siemens.com/lowvoltage/product-support. | | | | | | | | |
| | 1 set = 3 units | | | 3VL9100-4TC30 | | 1 | 1 unit | 1CC | 0.103 |
| | 1 set = 4 units | | | 3VL9100-4TC40 | | 1 | 1 unit | 1CC | 0.132 |
| <br>3VL9.00-4TD.0 | **Circular conductor terminals**<br>Only for cables (Al or Cu), aluminum terminal (tinned) | | | | | | | | |
| | 1 set = 3 units | | | 3VL9100-4TD30 | | 1 | 1 unit | 1CC | 0.100 |
| | 1 set = 4 units | | | 3VL9100-4TD40 | | 1 | 1 unit | 1CC | 0.121 |
| | **Circular conductor terminal with terminal covers for cable (Al or Cu)** | | | | | | | | |
| | 1 set = 3 units | | | 3VL9115-4TD30 | | 1 | 1 unit | 1CC | 0.337 |
| | 1 set = 4 units | | | 3VL9115-4TD40 | | 1 | 1 unit | 1CC | 0.429 |
| | **Auxiliary conductor terminals**<br>For box terminals/circular conductor terminals<br>1 set = 10 units | | | 3VL9200-3TN00 | | 1 | 1 unit | 1CC | 0.125 |
| <br>3VL9.00-4TA.0 | **Terminals with screw connection - metric thread**<br>With insulator (for rear) for use with busbars and cable lugs, see Technical Information at www.siemens.com/lowvoltage/product-support. | | | | | | | | |
| | 1 set = 3 units | | | 3VL9116-4TA30 | | 1 | 1 unit | 1CC | 0.067 |
| | 1 set = 4 units | | | 3VL9116-4TA40 | | 1 | 1 unit | 1CC | 0.084 |
| <br>NSE0_00730<br>3VL9.00-3CB.0 | **Connection covers (terminal covers) for circuit breakers**<br>Degree of protection IP30 for main connections<br>1 set = 2 units | | | | | | | | |
| | Extended | 3-pole | | 3VL9300-8CA30 | | 1 | 1 unit | 1CC | 0.292 |
| | Standard | 3-pole | | 3VL9300-8CB30 | | 1 | 1 unit | 1CC | 0.064 |
| | Extended | 4-pole | | 3VL9300-8CA40 | | 1 | 1 unit | 1CC | 0.364 |
| | Standard | 4-pole | | 3VL9300-8CB40 | | 1 | 1 unit | 1CC | 0.082 |
| <br>NSE0_00731<br>3VL9.00-8CE00 | **Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions**<br>1 set = 2 units | | | 3VL9300-8CE00 | | 1 | 1 unit | 1CC | 0.032 |

[1] For an overview of connectable connection parts, see page 2/123.

[2] Screw terminal connections are required for VL160X and VL160 molded case circuit breakers (3VL1 and 3VL2), see Technical Information at www.siemens.com/lowvoltage/product-support.

*** You can order this quantity or a multiple thereof.**

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## Accessories and spare parts

| | Version | DT | For VL160 (3VL2) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Connection parts for fixed-mounted circuit breakers**[1] | | | | | | | | |
| | ***3- or 4-pole*** | | | | | | | |
|  3VL9216-4EC40 | **Front connecting bars**[2] Phase barriers included. | | | | | | | |
| | Standard | | | | | | | |
| | 1 set = 3 units | 3-pole | 3VL9216-4EC30 | | 1 | 1 unit | 1CC | 0.212 |
| | 1 set = 4 units | 4-pole | 3VL9216-4EC40 | | 1 | 1 unit | 1CC | 0.287 |
|  3VL9216-4ED40 | For increased pole spacing | | | | | | | |
| | 1 set = 3 units | 3-pole | 3VL9216-4ED30 | | 1 | 1 unit | 1CC | 0.224 |
| | 1 set = 4 units | 4-pole | 3VL9216-4ED40 | | 1 | 1 unit | 1CC | 0.348 |
|  3VL9.00-4R.00 | **Rear terminals** | | | | | | | |
| | Short connection (1 unit) | | 3VL9200-4RA00 | | 1 | 1 unit | 1CC | 0.161 |
| | Long connection (1 unit) | | 3VL9200-4RB00 | | 1 | 1 unit | 1CC | 0.264 |
| | Terminal kit (2 short + 1 long) 3-pole | | 3VL9200-4RC30 | | 1 | 1 unit | 1CC | 0.565 |
| | Terminal kit (2 short + 2 long) 4-pole | | 3VL9200-4RF40 | | 1 | 1 unit | 1CC | 0.817 |
|  3VL9.00-4R.00 | Short flat connection (1 unit) | | 3VL9200-4RK00 | | 1 | 1 unit | 1CC | 0.131 |
| | Long flat connection (1 unit) | | 3VL9200-4RL00 | | 1 | 1 unit | 1CC | 0.227 |
| | Flat connector kit (2 short + 1 long) 3-pole | | 3VL9200-4RM30 | | 1 | 1 unit | 1CC | 0.455 |
| | Flat connector kit (2 short + 2 long) 4-pole | | 3VL9200-4RN40 | | 1 | 1 unit | 1CC | 0.656 |
|  3VL9.00-4TC.0 | **Box terminal** Connection for flexible flat copper busbar or cable, see Technical Information at www.siemens.com/lowvoltage/product-support. | | | | | | | |
| | 1 set = 3 units | | 3VL9200-4TC30 | | 1 | 1 unit | 1CC | 0.122 |
| | 1 set = 4 units | | 3VL9200-4TC40 | | 1 | 1 unit | 1CC | 0.155 |
|  3VL9.00-4TD.0 | **Circular conductor terminals** Only for cables (Al or Cu), aluminum terminal (tinned) | | | | | | | |
| | 1 set = 3 units | | 3VL9200-4TD30 | | 1 | 1 unit | 1CC | 0.138 |
| | 1 set = 4 units | | 3VL9200-4TD40 | | 1 | 1 unit | 1CC | 0.159 |
| | **Circular conductor terminal with terminal covers for cable (Al or Cu)** | | | | | | | |
| | 1 set = 3 units | | 3VL9215-4TD30 | | 1 | 1 unit | 1CC | 0.360 |
| | 1 set = 4 units | | 3VL9215-4TD40 | | 1 | 1 unit | 1CC | 0.455 |
|  3VL9.00-4TF.0 | **Multiple feed-in terminal without terminal covers** | | | | | | | |
| | 3 units (2 × 50 ... 120) | | -- | | | | | |
| | 4 units (2 × 50 ... 120) | | -- | | | | | |
| | **Multiple feed-in terminal with terminal covers** | | | | | | | |
| | 3 units (2 × 70 ... 300) | | -- | | | | | |
| | 4 units (2 × 70 ... 300) | | -- | | | | | |
| | **Auxiliary conductor terminals** For box terminals/circular conductor terminals/multiple feed-in terminals 1 set = 10 units | | 3VL9200-3TN00 | | 1 | 1 unit | 1CC | 0.125 |
|  3VL9.00-4TA.0 | **Terminals with screw connection - metric thread** With insulator (for rear) for use with busbars and cable lugs, see Technical Information at www.siemens.com/lowvoltage/product-support. | | | | | | | |
| | 1 set = 3 units | | 3VL9216-4TA30 | | 1 | 1 unit | 1CC | 0.080 |
| | 1 set = 4 units | | 3VL9216-4TA40 | | 1 | 1 unit | 1CC | 0.108 |
|  NSE0_00730 3VL9.00-3CB.0 | **Connection covers (terminal covers) for circuit breakers** Degree of protection IP30 for main connections 1 set = 2 units | | | | | | | |
| | Extended | 3-pole | 3VL9300-8CA30 | | 1 | 1 unit | 1CC | 0.292 |
| | Standard | 3-pole | 3VL9300-8CB30 | | 1 | 1 unit | 1CC | 0.064 |
| | Extended | 4-pole | 3VL9300-8CA40 | | 1 | 1 unit | 1CC | 0.364 |
| | Standard | 4-pole | 3VL9300-8CB40 | | 1 | 1 unit | 1CC | 0.082 |
|  NSE0_00731 3VL9.00-3CB.0 | **Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions** 1 set = 2 units | | 3VL9300-8CE00 | | 1 | 1 unit | 1CC | 0.032 |

[1] For an overview of connectable connection parts, see page 2/123.

[2] Screw terminal connections are required for VL160X and VL160 molded case circuit breakers (3VL1 and 3VL2), see Technical Information at www.siemens.com/lowvoltage/product-support.



* You can order this quantity or a multiple thereof.

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| DT | For VL250 (3VL3) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL400 (3VL4) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9300-4EC30 | | 1 | 1 unit | 1CC | 0.269 | | 3VL9400-4EC30 | | 1 | 1 unit | 1CC | 0.918 |
| | 3VL9300-4EC40 | | 1 | 1 unit | 1CC | 0.346 | | 3VL9400-4EC40 | | 1 | 1 unit | 1CC | 1.256 |
| | 3VL9300-4ED30 | | 1 | 1 unit | 1CC | 0.256 | | 3VL9400-4ED30 | | 1 | 1 unit | 1CC | 0.896 |
| | 3VL9300-4ED40 | | 1 | 1 unit | 1CC | 0.425 | | 3VL9400-4ED40 | | 1 | 1 unit | 1CC | 1.476 |
| | 3VL9300-4RA00 | | 1 | 1 unit | 1CC | 0.161 | | 3VL9400-4RA00 | | 1 | 1 unit | 1CC | 0.268 |
| | 3VL9300-4RB00 | | 1 | 1 unit | 1CC | 0.265 | | 3VL9400-4RB00 | | 1 | 1 unit | 1CC | 0.433 |
| | 3VL9300-4RC30 | | 1 | 1 unit | 1CC | 0.562 | | 3VL9400-4RC30 | | 1 | 1 unit | 1CC | 0.930 |
| | 3VL9300-4RF40 | | 1 | 1 unit | 1CC | 0.850 | | 3VL9400-4RF40 | | 1 | 1 unit | 1CC | 1.337 |
| | 3VL9300-4RK00 | | 1 | 1 unit | 1CC | 0.126 | | 3VL9400-4RK00 | | 1 | 1 unit | 1CC | 0.380 |
| | 3VL9300-4RL00 | | 1 | 1 unit | 1CC | 0.228 | | 3VL9400-4RL00 | | 1 | 1 unit | 1CC | 0.542 |
| | 3VL9300-4RM30 | | 1 | 1 unit | 1CC | 0.447 | | 3VL9400-4RM30 | | 1 | 1 unit | 1CC | 1.305 |
| | 3VL9300-4RN40 | | 1 | 1 unit | 1CC | 0.660 | | 3VL9400-4RN40 | | 1 | 1 unit | 1CC | 1.783 |
| | 3VL9300-4TC30 | | 1 | 1 unit | 1CC | 0.206 | | 3VL9400-4TC30 | | 1 | 1 unit | 1CC | 0.488 |
| | 3VL9300-4TC40 | | 1 | 1 unit | 1CC | 0.275 | | 3VL9400-4TC40 | | 1 | 1 unit | 1CC | 0.617 |
| | 3VL9300-4TD30 | | 1 | 1 unit | 1CC | 0.183 | | 3VL9400-4TD30 | | 1 | 1 unit | 1CC | 0.293 |
| | 3VL9300-4TD40 | | 1 | 1 unit | 1CC | 0.235 | | 3VL9400-4TD40 | | 1 | 1 unit | 1CC | 0.391 |
| | 3VL9324-4TD30 | | 1 | 1 unit | 1CC | 0.487 | | -- | | | | | |
| | 3VL9324-4TD40 | | 1 | 1 unit | 1CC | 0.676 | | -- | | | | | |
| | -- | | | | | | | 3VL9400-4TF30 | | 1 | 1 unit | 1CC | 0.434 |
| | -- | | | | | | | 3VL9400-4TF40 | | 1 | 1 unit | 1CC | 0.575 |
| | -- | | | | | | | 3VL9460-4TF30 | | 1 | 1 unit | 1CC | 0.892 |
| | -- | | | | | | | 3VL9460-4TF40 | | 1 | 1 unit | 1CC | 1.141 |
| | 3VL9300-3TN00 | | 1 | 1 unit | 1CC | 0.133 | | 3VL9400-3TN00 | | 1 | 1 unit | 1CC | 0.140 |
| | 3VL9300-4TA30 | | 1 | 1 unit | 1CC | 0.114 | | 3VL9400-4TA30 | | 1 | 1 unit | 1CC | 0.125 |
| | 3VL9300-4TA40 | | 1 | 1 unit | 1CC | 0.144 | | 3VL9400-4TA40 | | 1 | 1 unit | 1CC | 0.161 |
| | 3VL9300-8CA30 | | 1 | 1 unit | 1CC | 0.292 | | 3VL9400-8CA30 | | 1 | 1 unit | 1CC | 0.625 |
| | 3VL9300-8CB30 | | 1 | 1 unit | 1CC | 0.064 | | 3VL9400-8CB30 | | 1 | 1 unit | 1CC | 0.124 |
| | 3VL9300-8CA40 | | 1 | 1 unit | 1CC | 0.364 | | 3VL9400-8CA40 | | 1 | 1 unit | 1CC | 0.705 |
| | 3VL9300-8CB40 | | 1 | 1 unit | 1CC | 0.082 | | 3VL9400-8CB40 | | 1 | 1 unit | 1CC | 0.177 |
| | 3VL9300-8CE00 | | 1 | 1 unit | 1CC | 0.032 | | 3VL9600-8CE00 | | 1 | 1 unit | 1CC | 0.057 |

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## Accessories and spare parts

| | Version | DT | For VL630 (3VL5) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Connection parts for fixed-mounted circuit breakers**[1] | | | | | | | | |
| | ***3- or 4-pole*** | | | | | | | |
| | **Front connecting bars**<br>Phase barriers included. | | | | | | | |
| | Standard | | | | | | | |
| <br>3VL9216-4EC40 | 1 set = 3 units | 3-pole | 3VL9500-4EC30 | | 1 | 1 unit | 1CC | 1.160 |
| | 1 set = 4 units | 4-pole | 3VL9500-4EC40 | | 1 | 1 unit | 1CC | 1.522 |
| | For increased pole spacing | | | | | | | |
| <br>3VL9216-4ED40 | 1 set = 3 units | 3-pole | 3VL9500-4ED30 | | 1 | 1 unit | 1CC | 1.172 |
| | 1 set = 4 units | 4-pole | 3VL9500-4ED40 | | 1 | 1 unit | 1CC | 1.545 |
| <br>3VL9.00-4RG00 | Flat connecting bar (1 unit) | | 3VL9500-4RG00 | | 1 | 1 unit | 1CC | 0.448 |
| | Flat connecting bars<br>Set = 3 units, 3-pole | | 3VL9500-4RH30 | | 1 | 1 unit | 1CC | 1.174 |
| | Flat connecting bars<br>Set = 4 units, 4-pole | | 3VL9500-4RH40 | | 1 | 1 unit | 1CC | 1.519 |
| <br>3VL9.00-4TG.0 | **Multiple feed-in terminals**<br>Only for cables (Al or Cu)<br>Aluminum terminal (tinned) | | | | | | | |
| | 1 set = 3 units | | 3VL9500-4TG30 | | 1 | 1 unit | 1CC | 0.558 |
| | 1 set = 4 units | | 3VL9500-4TG40 | | 1 | 1 unit | 1CC | 0.697 |
| | **Auxiliary conductor terminals**<br>For multiple feed-in terminals<br>1 set = 10 units | | 3VL9400-3TN00 | | 1 | 1 unit | 1CC | 0.140 |
| <br>3VL9.00-4TT.0 | **Terminal plates**[2]<br>Connection for flexible flat copper busbar with auxiliary conductor connection 0.5 – 4 mm$^2$ (extended terminal covers or phase barriers required) | | | | | | | |
| | 1 set = 3 units | | 3VL9500-4TT30 | | 1 | 1 unit | 1CC | 1.510 |
| | 1 set = 4 units | | 3VL9500-4TT40 | | 1 | 1 unit | 1CC | 1.874 |
| <br>3VL9.00-4TA.0 | **Terminals with screw connection – metric thread**<br>With insulator (for rear) for use with busbars and cable lugs, see Technical Information at www.siemens.com/lowvoltage/product-support. | | | | | | | |
| | 1 set = 3 units | | 3VL9500-4TA30 | | 1 | 1 unit | 1CC | 0.134 |
| | 1 set = 4 units | | 3VL9500-4TA40 | | 1 | 1 unit | 1CC | 0.163 |
| <br>NSE0_00730<br>3VL9.00-3CB.0 | **Connection covers (terminal covers) for circuit breakers**<br>Degree of protection IP30 for main connections<br>1 set = 2 units | | | | | | | |
| | Extended | 3-pole | 3VL9600-8CA30 | | 1 | 1 unit | 1CC | 0.930 |
| | Standard | 3-pole | 3VL9600-8CB30 | | 1 | 1 unit | 1CC | 0.219 |
| | Extended | 4-pole | 3VL9600-8CA40 | | 1 | 1 unit | 1CC | 1.062 |
| | Standard | 4-pole | 3VL9600-8CB40 | | 1 | 1 unit | 1CC | 0.287 |
| <br>NSE0_00731<br>3VL9.00-8CE00 | **Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions**[3] | | | | | | | |
| | 1 set = 2 units | | 3VL9600-8CE00 | | 1 | 1 unit | 1CC | 0.057 |

1) For an overview of connectable connection parts, see page 2/123.

2) Front connecting bars included in scope of supply; not for 690 V AC/600 V DC.

3) Plug-in versions: Not for VL1250 (3VL7), withdrawable version: Not for VL800 (3VL6) and VL1250 (3VL7).



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| DT | For VL800 (3VL6) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL1250 (3VL7) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9600-4EC30 | | 1 | 1 unit | 1CC | 1.725 | | 3VL9800-4EC30 | | 1 | 1 unit | 1CC | 3.562 |
| | 3VL9600-4EC40 | | 1 | 1 unit | 1CC | 2.301 | | 3VL9800-4EC40 | | 1 | 1 unit | 1CC | 4.385 |
| | 3VL9600-4ED30 | | 1 | 1 unit | 1CC | 1.733 | | -- | | | | | |
| | 3VL9600-4ED40 | | 1 | 1 unit | 1CC | 2.287 | | -- | | | | | |
| | 3VL9600-4RG00 | | 1 | 1 unit | 1CC | 1.629 | | 3VL9700-4RG00 | | 1 | 1 unit | 1CC | 1.638 |
| | 3VL9600-4RH30 | | 1 | 1 unit | 1CC | 4.770 | | 3VL9700-4RH30 | | 1 | 1 unit | 1CC | 4.960 |
| | 3VL9600-4RH40 | | 1 | 1 unit | 1CC | 6.510 | | 3VL9700-4RH40 | | 1 | 1 unit | 1CC | 6.523 |
| | 3VL9600-4TG30 | | 1 | 1 unit | 1CC | 1.024 | | 3VL9700-4TG30 | | 1 | 1 unit | 1CC | 2.235 |
| | 3VL9600-4TG40 | | 1 | 1 unit | 1CC | 1.286 | | 3VL9700-4TG40 | | 1 | 1 unit | 1CC | 2.950 |
| | 3VL9400-3TN00 | | 1 | 1 unit | 1CC | 0.140 | | 3VL9400-3TN00 | | 1 | 1 unit | 1CC | 0.140 |
| | -- | | | | | | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | 3VL9600-4TA30 | | 1 | 1 unit | 1CC | 0.236 | | 3VL9800-4TA30 | | 1 | 1 unit | 1CC | 0.273 |
| | 3VL9600-4TA40 | | 1 | 1 unit | 1CC | 0.311 | | 3VL9800-4TA40 | | 1 | 1 unit | 1CC | 0.506 |
| | 3VL9600-8CA30 | | 1 | 1 unit | 1CC | 0.930 | | 3VL9800-8CA30 | | 1 | 1 unit | 1CC | 1.240 |
| | 3VL9600-8CB30 | | 1 | 1 unit | 1CC | 0.219 | | 3VL9800-8CB30 | | 1 | 1 unit | 1CC | 0.412 |
| | 3VL9600-8CA40 | | 1 | 1 unit | 1CC | 1.062 | | 3VL9800-8CA40 | | 1 | 1 unit | 1CC | 1.500 |
| | 3VL9600-8CB40 | | 1 | 1 unit | 1CC | 0.287 | | 3VL9800-8CB40 | | 1 | 1 unit | 1CC | 0.536 |
| | 3VL9600-8CE00 | | 1 | 1 unit | 1CC | 0.057 | | 3VL9800-8CE00 | | 1 | 1 unit | 1CC | 0.150 |

*** You can order this quantity or a multiple thereof.**

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## Accessories and spare parts

| | Version | | DT | For VL1600 (3VL8) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|
| **Connection parts for fixed-mounted circuit breakers**[1] | | | | | | | | | |
| | ***3- or 4-pole*** | | | | | | | | |
| | **Front connecting bars**<br>Phase barriers included. | | | | | | | | |
| <br>3VL9216-4EC40 | Standard[2] | | | | | | | | |
| | 1 set = 3 units | 3-pole | | 3VL9800-4EC30 | | 1 | 1 unit | 1CC | 3.562 |
| | 1 set = 4 units | 4-pole | | 3VL9800-4EC40 | | 1 | 1 unit | 1CC | 4.385 |
| <br>3VL9216-4ED40 | For increased pole spacing | | | | | | | | |
| | 1 set = 3 units | 3-pole | | -- | | | | | |
| | 1 set = 4 units | 4-pole | | -- | | | | | |
| <br>3VL9.00-4RG00 | **Rear terminals** | | | | | | | | |
| | Flat connecting bar (1 unit) | | | 3VL9800-4RG00 | | 1 | 1 unit | 1CC | 1.597 |
| | Flat connecting bars<br>Set = 3 units, 3-pole | | | 3VL9800-4RH30 | | 1 | 1 unit | 1CC | 4.965 |
| | Flat connecting bars<br>Set = 4 units, 4-pole | | | 3VL9800-4RH40 | | 1 | 1 unit | 1CC | 6.105 |
| <br>3VL9.00-4TA.0 | **Terminals with screw connection - metric thread**<br>With insulator (for rear) for use with busbars and cable lugs, see Technical Information at www.siemens.com/lowvoltage/product-support. | | | | | | | | |
| | 1 set = 3 units | | | 3VL9800-4TA30 | | 1 | 1 unit | 1CC | 0.273 |
| | 1 set = 4 units | | | 3VL9800-4TA40 | | 1 | 1 unit | 1CC | 0.506 |
| <br>NSE0_00730<br>3VL9.00-3CB.0 | **Connection covers (terminal covers) for circuit breakers**<br>Degree of protection IP30 for main connections<br>1 set = 2 units | | | | | | | | |
| | Extended | 3-pole | | 3VL9800-8CA30 | | 1 | 1 unit | 1CC | 1.240 |
| | Standard | 3-pole | | 3VL9800-8CB30 | | 1 | 1 unit | 1CC | 0.412 |
| | Extended | 4-pole | | 3VL9800-8CA40 | | 1 | 1 unit | 1CC | 1.500 |
| | Standard | 4-pole | | 3VL9800-8CB40 | | 1 | 1 unit | 1CC | 0.536 |
| <br>NSE0_00731<br>3VL9.00-8CE00 | **Phase barriers for fixed-mounted circuit breakers** | | | | | | | | |
| | 1 set = 2 units | | | 3VL9800-8CE00 | | 1 | 1 unit | 1CC | 0.150 |

[1] For an overview of connectable connection parts, see page 2/123.

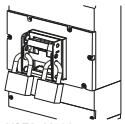
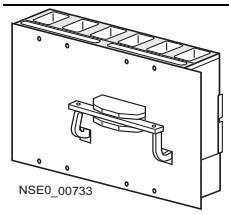
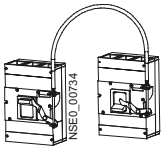
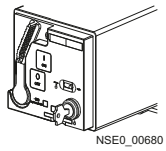
[2] In scope of supply of circuit breaker.



* You can order this quantity or a multiple thereof.

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| | Version | DT | For VL160X (3VL1) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Interlocks** | | | | | | | | |
| | ***3- or 4-pole*** | | | | | | | |
|  NSE0_00732 3VL9.00-3HL00 | **Locking devices for toggle levers** For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5 – 8 mm can be used. Removable (padlocks not included) | | 3VL9300-3HL00 | | 1 | 1 unit | 1CC | 0.069 |
|  NSE0_00733 3VL9.00-8L.00 | **Rear interlocking modules** For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size. (Mounting plate not included in scope of supply) | | | | | | | |
| | Fixed-mounted circuit breakers | | 3VL9300-8LC00 | | 1 | 1 unit | 1CC | 0.320 |
| | Plug-in/withdrawable circuit breakers | | 3VL9300-8LD00 | | 1 | 1 unit | 1CC | 0.383 |
|  NSE0_00734 3VL9.00-8LA00 | **Interlocking modules for Bowden wire interlocking**[1] For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker | | Combination with next size up possible (see Article No.) 3VL9300-8LA00 | | 1 | 1 unit | 1CC | 0.248 |
| | **Bowden wires** for Bowden wire interlocking[1] | | | | | | | |
| | Wire length 0.5 m | | 3VL9000-8LH10 | | 1 | 1 unit | 1CC | 0.303 |
| | Wire length 1.0 m | | 3VL9000-8LH20 | | 1 | 1 unit | 1CC | 0.371 |
| | Wire length 1.5 m | | 3VL9000-8LH30 | | 1 | 1 unit | 1CC | 0.646 |
|  NSE0_00680 3VL9...-8HA00 | **Safety lock assembly kits** Key can be removed with the circuit breaker in the "OFF" position | | | | | | | |
| | For front-operated rotary operating mechanisms | | | | | | | |
| | Lock types | | | | | | | |
| | Ronis | | 3VL9715-8HA00 | | 1 | 1 unit | 1CC | 0.267 |
| | For motorized operating mechanism with stored energy mechanism | | | | | | | |
| | Lock types | | | | | | | |
| | Ronis | | -- | | | | | |
| | Filli Giussani | | 3VL9321-8HA00 | | 1 | 1 unit | 1CC | 0.039 |
| | **Sets of fixing screws (metric thread)** Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface | | | | | | | |
| | Set with 4 screws | | 3VL9300-8SA40 | | 1 | 1 unit | 1CC | 0.053 |
| | **Transparent covers for releases, sealable** To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) | | | | | | | |
| | Electronic Trip Unit | | -- | | | | | |
| | Thermal-magnetic | | 3VL9300-8BM00 | | 1 | 1 unit | 1CC | 0.017 |

[1] Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism and withdrawable version!

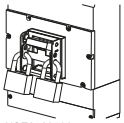
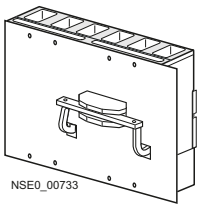
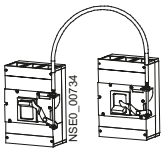
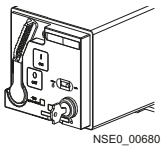
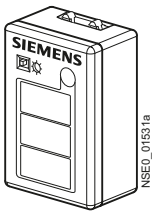
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## Accessories and spare parts

| | Version | DT | For VL160 (3VL2) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Interlocks** | | | | | | | | |
| | ***3- or 4-pole*** | | | | | | | |
|  NSE0_00732 3VL9.00-3HL00 | **Locking devices for toggle levers** For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5 – 8 mm can be used. Removable (padlocks not included) | | 3VL9300-3HL00 | | 1 | 1 unit | 1CC | 0.069 |
|  NSE0_00733 3VL9.00-8L.00 | **Rear interlocking modules** For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size. (Mounting plate not included in scope of supply) | | | | | | | |
| | Fixed-mounted circuit breakers | | 3VL9300-8LC00 | | 1 | 1 unit | 1CC | 0.320 |
| | Plug-in/withdrawable circuit breakers | | 3VL9300-8LD00 | | 1 | 1 unit | 1CC | 0.383 |
|  NSE0_00734 3VL9.00-8LA00 | **Interlocking modules for Bowden wire interlocking**[1] For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker | | Combinations with next size up/down possible (see Article No.) 3VL9300-8LA00 | | 1 | 1 unit | 1CC | 0.248 |
| | **Bowden wires** for Bowden wire interlocking[1] | | | | | | | |
| | Wire length 0.5 m | | 3VL9000-8LH10 | | 1 | 1 unit | 1CC | 0.303 |
| | Wire length 1.0 m | | 3VL9000-8LH20 | | 1 | 1 unit | 1CC | 0.371 |
| | Wire length 1.5 m | | 3VL9000-8LH30 | | 1 | 1 unit | 1CC | 0.646 |
|  NSE0_00680 3VL9...-8HA00 | **Safety lock assembly kits** Key can be removed with the circuit breaker in the "OFF" position For front-operated rotary operating mechanisms | | | | | | | |
| | Lock types | | | | | | | |
| | Ronis | | 3VL9715-8HA00 | | 1 | 1 unit | 1CC | 0.267 |
| | For motorized operating mechanism with stored energy mechanism | | | | | | | |
| | Lock types | | | | | | | |
| | Ronis | | -- | | | | | |
| | Filli Giussani | | 3VL9321-8HA00 | | 1 | 1 unit | 1CC | 0.039 |
| | **Sets of fixing screws (metric thread)** Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface | | | | | | | |
| | Set with 4 screws | | 3VL9300-8SA40 | | 1 | 1 unit | 1CC | 0.053 |
| | **Transparent covers for releases, sealable** To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) | | | | | | | |
| | Electronic Trip Unit | | 3VL9700-8BL00 | | 1 | 1 unit | 1CC | 0.009 |
| | Thermal-magnetic | | 3VL9300-8BM00 | | 1 | 1 unit | 1CC | 0.017 |
|   NSE0_01531a 3VL9000-8AP01 | **Battery power supply for activating/ parameterizing the LCD ETUs, with test function for all IEC and UL ETUs** (two 9 V blocks are required in addition) | | 3VL9000-8AP01 | | 1 | 1 unit | 1CC | 0.208 |

[1] Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism and withdrawable version!



* You can order this quantity or a multiple thereof.

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| DT | For VL250 (3VL3) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL400 (3VL4) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9300-3HL00 | | 1 | 1 unit | 1CC | 0.069 | | 3VL9400-3HL00 | | 1 | 1 unit | 1CC | 0.144 |
| | 3VL9300-8LC00 | | 1 | 1 unit | 1CC | 0.320 | | 3VL9400-8LC00 | | 1 | 1 unit | 1CC | 1.170 |
| | 3VL9300-8LD00 | | 1 | 1 unit | 1CC | 0.383 | | 3VL9400-8LD00 | | 1 | 1 unit | 1CC | 1.280 |
| | 3VL9300-8LA00 | | 1 | 1 unit | 1CC | 0.248 | | 3VL9400-8LA00 | | 1 | 1 unit | 1CC | 0.210 |
| | 3VL9000-8LH10 | | 1 | 1 unit | 1CC | 0.303 | | -- | | | | | |
| | 3VL9000-8LH20 | | 1 | 1 unit | 1CC | 0.371 | | 3VL9000-8LH20 | | 1 | 1 unit | 1CC | 0.371 |
| | 3VL9000-8LH30 | | 1 | 1 unit | 1CC | 0.646 | | 3VL9000-8LH30 | | 1 | 1 unit | 1CC | 0.646 |
| | 3VL9715-8HA00 | | 1 | 1 unit | 1CC | 0.267 | | 3VL9715-8HA00 | | 1 | 1 unit | 1CC | 0.267 |
| | -- | | | | | | | 3VL9715-8HA00 | | 1 | 1 unit | 1CC | 0.267 |
| | 3VL9321-8HA00 | | 1 | 1 unit | 1CC | 0.039 | | -- | | | | | |
| | 3VL9300-8SA40 | | 1 | 1 unit | 1CC | 0.053 | | 3VL9500-8SA40 | | 1 | 1 unit | 1CC | 0.109 |
| | 3VL9700-8BL00 | | 1 | 1 unit | 1CC | 0.009 | | 3VL9700-8BL00 | | 1 | 1 unit | 1CC | 0.009 |
| | 3VL9300-8BM00 | | 1 | 1 unit | 1CC | 0.017 | | 3VL9400-8BM00 | | 1 | 1 unit | 1CC | 0.028 |
| | 3VL9000-8AP01 | | 1 | 1 unit | 1CC | 0.208 | | 3VL9000-8AP01 | | 1 | 1 unit | 1CC | 0.208 |

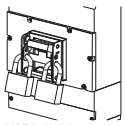
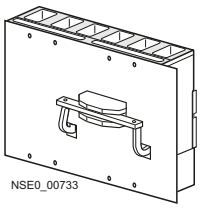
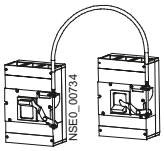
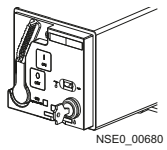
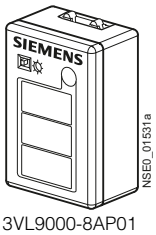
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## Accessories and spare parts

| | Version | DT | For VL630 (3VL5) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Interlocks** | | | | | | | | |
| | ***3- or 4-pole*** | | | | | | | |
|  NSE0_00732 3VL9.00-3HL00 | **Locking devices for toggle levers** For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5 – 8 mm can be used. Removable (padlocks not included) | | 3VL9600-3HL00 | | 1 | 1 unit | 1CC | 0.162 |
|  NSE0_00733 3VL9.00-8L.00 | **Rear interlocking modules** For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size. (Mounting plate not included in scope of supply) | | | | | | | |
| | Fixed-mounted circuit breakers | | 3VL9600-8LC00 | | 1 | 1 unit | 1CC | 4.356 |
| | Plug-in/withdrawable circuit breakers | | 3VL9600-8LD00 | | 1 | 1 unit | 1CC | 5.413 |
|  NSE0_00734 3VL9.00-8LA00 | **Interlocking modules for Bowden wire interlocking**[1] For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker | | Combinations with next size up/down possible (see Article No.) 3VL9600-8LA00 | | 1 | 1 unit | 1CC | 0.275 |
| | **Bowden wires** for Bowden wire interlocking[1] | | | | | | | |
| | Wire length 0.5 m | | -- | | | | | |
| | Wire length 1.0 m | | 3VL9000-8LH20 | | 1 | 1 unit | 1CC | 0.371 |
| | Wire length 1.5 m | | 3VL9000-8LH30 | | 1 | 1 unit | 1CC | 0.646 |
|  NSE0_00680 3VL9...-8HA00 | **Safety lock assembly kits** Key can be removed with the circuit breaker in the "OFF" position For front-operated rotary operating mechanisms | | | | | | | |
| | Lock types | | | | | | | |
| | Ronis | | 3VL9715-8HA00 | | 1 | 1 unit | 1CC | 0.267 |
| | For motorized operating mechanism with stored energy mechanism | | | | | | | |
| | Lock types | | | | | | | |
| | Ronis | | 3VL9715-8HA00 | | 1 | 1 unit | 1CC | 0.267 |
| | Filli Giussani | | -- | | | | | |
| | **Sets of fixing screws (metric thread)** Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface | | | | | | | |
| | Set with 4 screws | | 3VL9500-8SA40 | | 1 | 1 unit | 1CC | 0.109 |
|  NSE0_01531a 3VL9000-8AP01 | **Transparent covers for releases, sealable** To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic Trip Units | | | | | | | |
| | | | 3VL9700-8BL00 | | 1 | 1 unit | 1CC | 0.009 |
| | Thermal-magnetic | | 3VL9600-8BM00 | | 1 | 1 unit | 1CC | 0.031 |
| | **Battery power supply for activating/ parameterizing the LCD ETUs, with test function for all IEC and UL ETUs** (two 9 V blocks are required in addition) | | 3VL9000-8AP01 | | 1 | 1 unit | 1CC | 0.208 |

[1] Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism and withdrawable version!



* You can order this quantity or a multiple thereof.

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| DT | For VL800 (3VL6) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL1250 (3VL7) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9600-3HL00 | | 1 | 1 unit | 1CC | 0.162 | | 3VL9800-3HL00 | | 1 | 1 unit | 1CC | 0.244 |
| | 3VL9600-8LC00 | | 1 | 1 unit | 1CC | 4.356 | | 3VL9800-8LC00 | | 1 | 1 unit | 1CC | 2.738 |
| | 3VL9600-8LD00 | | 1 | 1 unit | 1CC | 5.413 | | 3VL9800-8LD00 | | 1 | 1 unit | 1CC | 3.402 |
| | 3VL9600-8LA00 | | 1 | 1 unit | 1CC | 0.275 | | 3VL9800-8LA00 | | 1 | 1 unit | 1CC | 0.305 |
| | -- | | | | | | | -- | | | | | |
| | 3VL9000-8LH20 | | 1 | 1 unit | 1CC | 0.371 | | -- | | | | | |
| | 3VL9000-8LH30 | | 1 | 1 unit | 1CC | 0.646 | | 3VL9000-8LH30 | | 1 | 1 unit | 1CC | 0.646 |
| | 3VL9715-8HA00 | | 1 | 1 unit | 1CC | 0.267 | | 3VL9715-8HA00 | | 1 | 1 unit | 1CC | 0.267 |
| | 3VL9715-8HA00 | | 1 | 1 unit | 1CC | 0.267 | | 3VL9715-8HA00 | | 1 | 1 unit | 1CC | 0.267 |
| | -- | | | | | | | -- | | | | | |
| | 3VL9600-8SA40 | | 1 | 1 unit | 1CC | 0.118 | | 3VL9800-8SA40 | | 1 | 1 unit | 1CC | 0.116 |
| | 3VL9700-8BL00 | | 1 | 1 unit | 1CC | 0.009 | | 3VL9700-8BL00 | | 1 | 1 unit | 1CC | 0.009 |
| | -- | | | | | | | -- | | | | | |
| | 3VL9000-8AP01 | | 1 | 1 unit | 1CC | 0.208 | | 3VL9000-8AP01 | | 1 | 1 unit | 1CC | 0.208 |

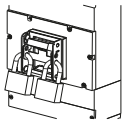
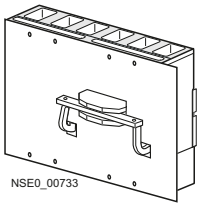
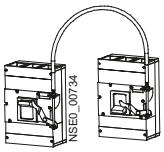
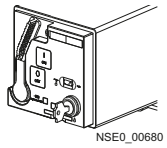
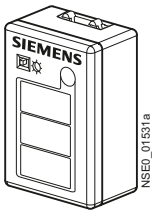
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## Accessories and spare parts

| | Version | DT | For VL1600 (3VL8) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Interlocks** | | | | | | | | |
| | ***3- or 4-pole*** | | | | | | | |
|  NSE0_00732 3VL9.00-3HL00 | **Locking devices for toggle levers** For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5 – 8 mm can be used. Removable (padlocks not included) | | 3VL9800-3HL00 | | 1 | 1 unit | 1CC | 0.244 |
|  NSE0_00733 3VL9.00-8L.00 | **Rear interlocking modules** For the mechanical interlocking of two adjacent circuit breakers. The circuit breakers must be of the same installation type and size. | | | | | | | |
| | Circuit breakers, fixed-mounted[1] | | 3VL9800-8LC00 | | 1 | 1 unit | 1CC | 2.738 |
| | Plug-in/withdrawable circuit breakers | | 3VL9800-8LD00 | | 1 | 1 unit | 1CC | 3.402 |
|  NSE0_00734 3VL9.00-8LA00 | **Interlocking modules for Bowden wire interlocking[2]** For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker | | 3VL9800-8LA00 | | 1 | 1 unit | 1CC | 0.305 |
| | **Bowden wires** for Bowden wire interlocking[2] | | | | | | | |
| | Wire length 0.5 m | | -- | | | | | |
| | Wire length 1.0 m | | -- | | | | | |
| | Wire length 1.5 m | | 3VL9000-8LH30 | | 1 | 1 unit | 1CC | 0.646 |
|  NSE0_00680 3VL9...-8HA00 | **Safety lock assembly kits** Key can be removed with the circuit breaker in the "OFF" position | | | | | | | |
| | For front-operated rotary operating mechanisms | | | | | | | |
| | Lock types | | | | | | | |
| | Ronis | | 3VL9715-8HA00 | | 1 | 1 unit | 1CC | 0.267 |
| | For motorized operating mechanisms | | | | | | | |
| | Lock types | | | | | | | |
| | Ronis | | 3VL9715-8HA00 | | 1 | 1 unit | 1CC | 0.267 |
| | Filli Giussani | | -- | | | | | |
| | **Sets of fixing screws (metric thread)** Including the screws, washers and nuts required to secure a 3- or 4-pole circuit breaker to a prepared surface | | | | | | | |
| | Set with 4 screws | | 3VL9800-8SA40 | | 1 | 1 unit | 1CC | 0.116 |
| | **Transparent covers for releases, sealable** To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) | | | | | | | |
| | Electronic Trip Unit | | 3VL9700-8BL00 | | 1 | 1 unit | 1CC | 0.009 |
| | Thermal-magnetic | | -- | | | | | |
|   NSE0_01531a 3VL9000-8AP01 | **Battery power supply for activating/ parameterizing the LCD ETUs, with test function for all IEC and UL ETUs** (two 9 V blocks are required in addition) | | 3VL9000-8AP01 | | 1 | 1 unit | 1CC | 0.208 |

1) Mounting plate not included in scope of supply.

2) Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism and withdrawable version!



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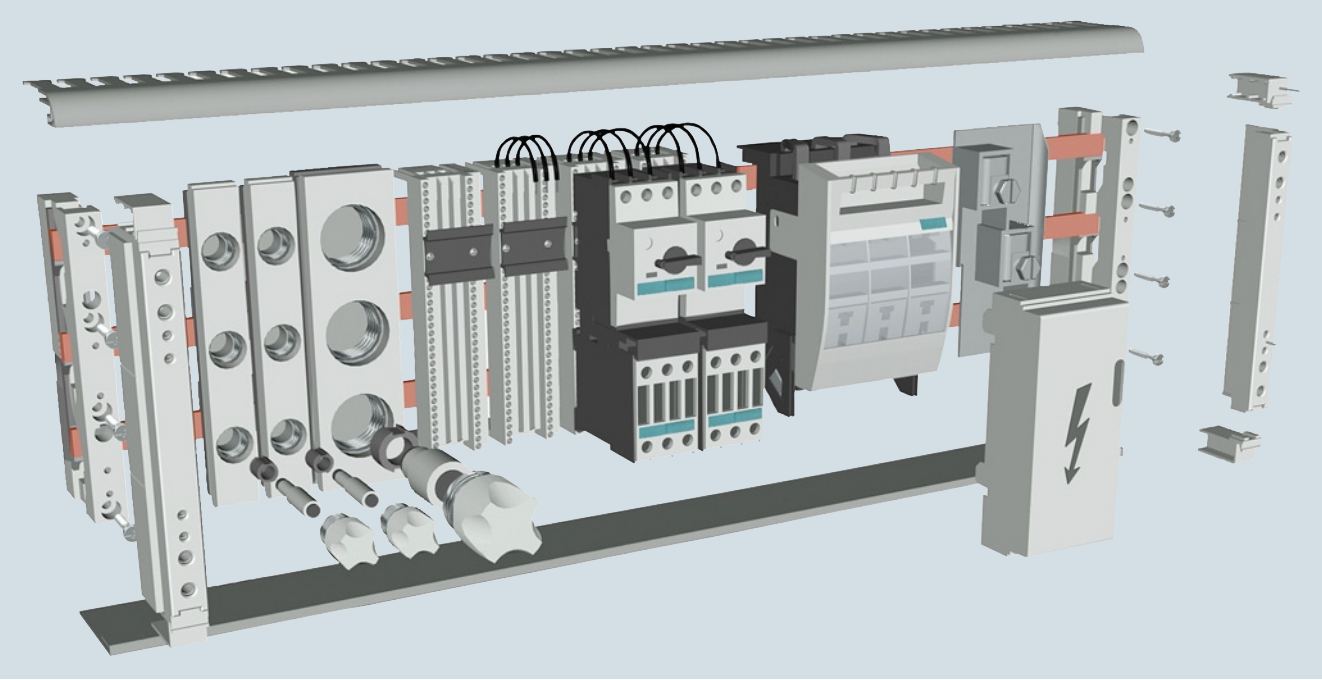
### *Transfer control devices*




3KC ATC5300 and NEW ATC3100 transfer control devices. For combination with two air circuit breakers/molded case circuit breakers for changeover according to 60947-6-1.

For more information, see chapter "Monitoring Devices".

### *Busbar systems*



Busbar adapter systems with 40 mm or 60 mm busbar center-to-center spacing with components for busbar runs, adapters and switching device holders for individual equipment possibilities, devices with an integrated adapter, as well as accessories and flat copper profiles.
Observe the short-circuit strength of the busbar system. Short-circuit strength greater than 50 kA on request.

For more information, see chapter "Busbar Systems".

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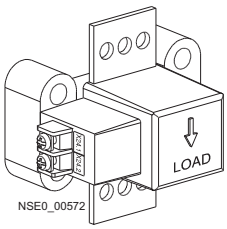




## Accessories and spare parts

### Further accessories

***Current transformers (-T6) for N conductor/grounded neutral point of the transformer for ground-fault protection in 4-wire three-phase systems*** [1)]




| Type | Rated current $I_n$ A | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| VL160/3VL2 | 63, 80 | | 3VL9280-8TC00 | | 1 | 1 unit | 1CC | 0.453 |
| | 100 | | 3VL9210-8TC00 | | 1 | 1 unit | 1CC | 0.460 |
| | 160 | | 3VL9216-8TC00 | | 1 | 1 unit | 1CC | 0.475 |
| VL250/3VL3 | 200 | | 3VL9320-8TC00 | | 1 | 1 unit | 1CC | 0.452 |
| | 250 | | 3VL9325-8TC00 | | 1 | 1 unit | 1CC | 0.455 |
| VL400/3VL4 | 315 | | 3VL9440-8TC00 | | 1 | 1 unit | 1CC | 0.648 |
| | 400 | | 3VL9440-8TC00 | | 1 | 1 unit | 1CC | 0.648 |
| VL630/3VL5 | 630 | | 3VL9563-8TC00 | | 1 | 1 unit | 1CC | 0.771 |
| VL800/3VL6 | 800 | | 3VL9680-8TC00 | | 1 | 1 unit | 1CC | 0.800 |
| VL1250/3VL7 | 1000 | | 3VL9712-8TC00 | | 1 | 1 unit | 1CC | 2.042 |
| | 1250 | | 3VL9712-8TC00 | | 1 | 1 unit | 1CC | 2.042 |
| VL1600/3VL8 | 1600 | | 3VL9816-8TC00 | | 1 | 1 unit | 1CC | 2.061 |

1) Please note the rated current of the circuit breaker.

***Current transformers for measuring purposes***



4NC53 current transformer

See also chapter "Measuring Devices and Power Monitoring", Accessories.

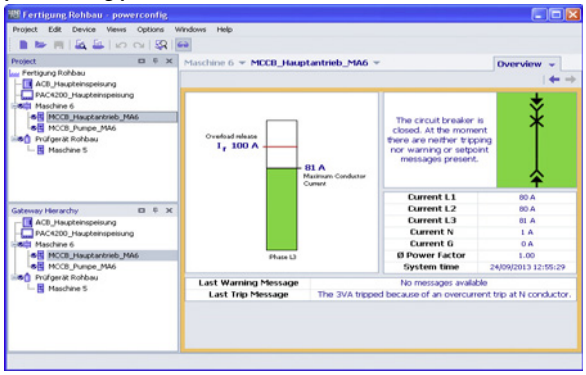


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| Version | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|
| **Accessories for communication** | | | | | | | |
| ***3- or 4-pole*** | | | | | | | |
| ***Data transmission through COM20, COM21*** | | | | | | | |
| VL160 (3VL2) to VL1600 (3VL8) | | | | | | | |
| **COM20 Release 2 (PROFIBUS module for 3VL molded case circuit breaker) for ETUs with communication function and LCD ETUs**<br>Module for connecting the 3VL molded case circuit breaker to the PROFIBUS DP, including switching function and Zone Selective Interlocking functionality, connection cable to ETU included in delivery of the ETU, length 1.5 m. | | 3VL9000-8AU00 | | 1 | 1 unit | 1CC | 0.287 |
| **COM21 Release 2 (MODBUS RTU module for 3VL molded case circuit breaker) for ETUs with communication function and LCD ETUs**<br>Module for connecting the 3VL molded case circuit breaker to the MODBUS RTU, including switching function and Zone Selective Interlocking functionality, connection cable to ETU included in delivery of the ETU, length 1.5 m. | | 3VL9000-8AV00 | | 1 | 1 unit | 1CC | 0.295 |
| **Connection cable ETU – COM20/COM21** | | | | | | | |
| For VL160 ... VL250, length 3 m | | 3VL9000-8AQ81 | | 1 | 1 unit | 1CC | 0.136 |
| For VL630 ... VL1600, length 3 m | | 3VL9000-8AQ71 | | 1 | 1 unit | 1CC | 0.135 |
| For VL400, length 3 m | | 3VL9000-8AQ61 | | 1 | 1 unit | 1CC | 0.138 |
| **Addressing plugs**<br>**For assigning the PROFIBUS module addresses without using a PC/PG**<br>On COM20/COM21 through the system interface | ► | 3UF7910-0AA00-0 | | 1 | 1 unit | 42J | 0.015 |
| **powerconfig parameterization software** | | | | | | | |




Parameterization, operation, monitoring and diagnostics of 3VL molded case circuit breakers using powerconfig software, see chapter "Software", "Configuring, Visualizing and Controlling with SENTRON".
powerconfig is available free of charge at
http://support.automation.siemens.com/WW/view/en/63452759
You can find more information on the Internet at:
www.siemens.com/sentron

Communication:

- For molded case circuit breakers with communication function, see pages 2/128 to 2/144, 2/156 to 2/166.
- For more information, see chapter "Measuring Devices and Power Monitoring" and chapter "Monitoring Devices".

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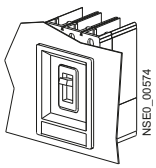


## Accessories and spare parts

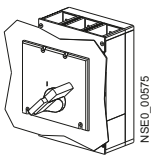


### Further accessories

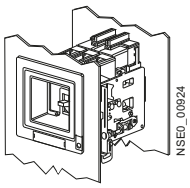
| Version | DT | For VL160X (3VL1) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|
| ***3- or 4-pole*** | | | | | | | |
| **Masking frames (cover frames) For door cutouts** | | | | | | | |
| **A IP40** Fixed-mounted or plug-in circuit breaker | | 3VL9300-8BC00 | | 1 | 1 unit | 1CC | 0.061 |
| **B[1] IP40** Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism (with or without SEO/MO stored energy mechanisms) | | 3VL9300-8BG00 | | 1 | 1 unit | 1CC | 0.126 |
| **C IP20** Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/rotary operating mechanism) | | -- | | | | | |
| **D IP40** Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame | | 3VL9300-8BD00 | | 1 | 1 unit | 1CC | 0.046 |
| RCD masking frame | | 3VL9300-8BD00 | | 1 | 1 unit | 1CC | 0.046 |
| **E[1] IP40** Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon | | -- | | | | | |
| Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon | | -- | | | | | |



Masking frame A

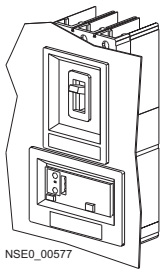


Masking frame B

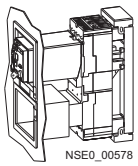


Masking frame C

| Version | DT | For VL400 (3VL4) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|
| ***3- or 4-pole*** | | | | | | | |
| **Masking frames (cover frames) For door cutouts** | | | | | | | |
| **A IP40** Fixed-mounted or plug-in circuit breaker | | 3VL9400-8BC00 | | 1 | 1 unit | 1CC | 0.053 |
| **B[1][2] IP40** Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism (only with SEO stored energy mechanisms) | | 3VL9400-8BG00 | | 1 | 1 unit | 1CC | 0.154 |
| **C IP20** Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/rotary operating mechanism) | | 3VL9400-8BH00 | | 1 | 1 unit | 1CC | 0.468 |
| **D IP40** Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame | | 3VL9400-8BC00 | | 1 | 1 unit | 1CC | 0.053 |
| RCD masking frame | | 3VL9400-8BD00 | | 1 | 1 unit | 1CC | 0.044 |
| **E[1] IP40** Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon | | 3VL9400-8BH00 | | 1 | 1 unit | 1CC | 0.468 |
| Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon | | 3VL9400-8BJ00 | | 1 | 1 unit | 1CC | 0.396 |



Masking frame D



Masking frame E

[1] For withdrawable version IP20.

[2] As motorized operating mechanism (without stored energy mechanism) for the 3VL4-3VL6, use article No. 3VL9300-8BG00.



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| DT | For VL160 (3VL2) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL250 (3VL3) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9300-8BC00 | | 1 | 1 unit | 1CC | 0.061 | | 3VL9300-8BC00 | | 1 | 1 unit | 1CC | 0.061 |
| | 3VL9300-8BG00 | | 1 | 1 unit | 1CC | 0.126 | | 3VL9300-8BG00 | | 1 | 1 unit | 1CC | 0.126 |
| | 3VL9300-8BH00 | | 1 | 1 unit | 1CC | 0.332 | | 3VL9300-8BH00 | | 1 | 1 unit | 1CC | 0.332 |
| | 3VL9300-8BC00 | | 1 | 1 unit | 1CC | 0.061 | | 3VL9300-8BC00 | | 1 | 1 unit | 1CC | 0.061 |
| | 3VL9300-8BD00 | | 1 | 1 unit | 1CC | 0.046 | | 3VL9300-8BD00 | | 1 | 1 unit | 1CC | 0.046 |
| | 3VL9300-8BH00 | | 1 | 1 unit | 1CC | 0.332 | | 3VL9300-8BH00 | | 1 | 1 unit | 1CC | 0.332 |
| | 3VL9300-8BJ00 | | 1 | 1 unit | 1CC | 0.314 | | 3VL9300-8BJ00 | | 1 | 1 unit | 1CC | 0.314 |

| DT | For VL630 (3VL5) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL800 (3VL6) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9600-8BC00 | | 1 | 1 unit | 1CC | 0.076 | | 3VL9600-8BC00 | | 1 | 1 unit | 1CC | 0.076 |
| | 3VL9600-8BG00 | | 1 | 1 unit | 1CC | 0.209 | | 3VL9600-8BG00 | | 1 | 1 unit | 1CC | 0.209 |
| | 3VL9600-8BH00 | | 1 | 1 unit | 1CC | 0.343 | | 3VL9600-8BH00 | | 1 | 1 unit | 1CC | 0.343 |
| | -- | | | | | | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
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*** You can order this quantity or a multiple thereof.**

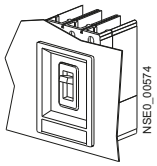
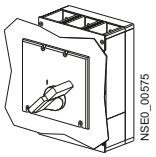
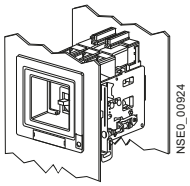
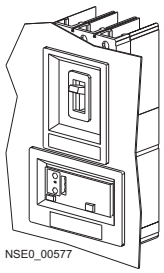
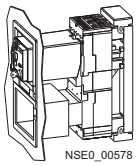
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## Accessories and spare parts

### Further accessories

| | Version | DT | For VL1250 (3VL7) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| | ***3- or 4-pole*** | | | | | | | |
| | **Masking frames (cover frames) For door cutouts** | | | | | | | |
|  Masking frame A | **A** **IP40** Fixed-mounted or plug-in circuit breaker | | 3VL9800-8BC00 | | 1 | 1 unit | 1CC | 0.064 |
|  Masking frame B | **B**[1] **IP40** Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism | | 3VL9800-8BG00 | | 1 | 1 unit | 1CC | 0.278 |
|  Masking frame C | **C** **IP20** Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/rotary operating mechanism) | | 3VL9800-8BH00 | | 1 | 1 unit | 1CC | 0.575 |
|  Masking frame D | **D** **IP40** Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame | | -- | | | | | |
| | RCD masking frame | | -- | | | | | |
|  Masking frame E | **E**[1] **IP40** Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon | | -- | | | | | |
| | Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon | | -- | | | | | |

[1] For withdrawable version IP20.



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| DT | For VL1600 (3VL8)<br>Article No.<br>www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx.<br>kg |
|---|---|---|---|---|---|---|
| | **3VL9800-8BC00** | | 1 | 1 unit | 1CC | 0.064 |
| | **3VL9800-8BG00** | | 1 | 1 unit | 1CC | 0.278 |
| | **3VL9800-8BH00** | | 1 | 1 unit | 1CC | 0.575 |
| | -- | | | | | |
| | -- | | | | | |
| | -- | | | | | |
| | -- | | | | | |

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## More information

***Manual for the 3VL molded case circuit breaker***

This manual contains additional technical information, covering a product description, mode of operation, electrical wiring system and retrofitting.

The manual and operating instructions are available in PDF format at:

www.siemens.com/lowvoltage/manuals

***SENTRON manual for communication solutions***

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

See chapter "Air Circuit Breakers",
"3WL Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC, "Accessories and spare parts".

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Note

You will find the 3VL molded case circuit breakers up to 1600 A according to UL 489 from page 2/214 onwards.

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## Overview

2






| Type | | VL150X UL, CG frame | VL150 UL, DG frame | VL250 UL, FG frame | VL400 UL, JG frame |
|---|---|---|---|---|---|
| **Molded case circuit breakers** | | | | | |
| **3VL molded case circuit breakers up to 1600 A, according to UL 489** | | | | | |
| Rated current $I_n$ [1] at 40 °C ambient temperature | A | 20 to 150 | 50 to 150 | 100 to 250 | 250 to 400 |
| Number of poles | | 3 | 3 | 3 | 3 |
| Rated operational voltage $U_e$ (UL) | | | | | |
| 50/60 Hz AC | V | 480, 600/347 | 480, 600/347 | 400, 600/347 | 600 |
| DC [2] | V | 250 | 500 | 500 | 500 |
| **Overcurrent release** | | | | | |
| Thermal-magnetic | | ✓ | ✓ | ✓ | ✓ |
| Electronic, ETU with setting knobs | | -- | ✓ | ✓ | ✓ |
| Electronic LCD ETU | | -- | ✓ | ✓ | ✓ |
| Dimensions | | | | | |
| A | mm | 105 | 105 | 105 | 139 |
| B | mm | 157 | 175 | 175 | 279 |
| C | mm | 81 | 81 | 81 | 102 |
| D | mm | 107 | 107 | 107 | 138 |
| **Breaking capacity** | | | | | |
| Standard breaking capacity N (N) | | | | | |
| Up to 240 V AC | kA | 65 | 65 | 65 | 65 |
| Up to 480 V AC | kA | 35 | 35 | 35 | 35 |
| Up to 600 V AC | kA | -- | -- | -- | 25 |
| Up to 600/347 V AC | kA | 10 | 18 | 18 | -- |
| Up to 250 V DC [3] | kA | 30 | 30 | 30 | 30 |
| Up to 500 V DC [3] [4] | kA | -- | 18 | 18 | 25 |
| Breaking capacity $I_{cu}/I_{cs}$ RMS value according to IEC 60947-2 | | | | | |
| Up to 240 V AC | kA | 65/65 | 65/65 | 65/65 | 65/65 |
| Up to 415 V AC | kA | 40/40 | 40/40 | 40/40 | 45/45 |
| Up to 690 V AC | kA | 8/4 [5] | 12/6 | 12/6 | 12/6 |
| Up to 250 V DC [3] | kA | 30/30 | 30/30 | 30/30 | 30/30 |
| High breaking capacity H (H) | | | | | |
| Up to 240 V AC | kA | 100 | 100 | 100 | 100 |
| Up to 480 V AC | kA | 65 | 65 | 65 | 65 |
| Up to 600 V AC | kA | -- | -- | -- | 25 |
| Up to 600/347 V AC | kA | 10 | 18 | 18 | -- |
| Up to 250 V DC [3] | kA | 30 | 30 | 30 | 30 |
| Up to 500 V DC [3] [4] | kA | -- | 18 | 25 | 35 |
| Breaking capacity $I_{cu}/I_{cs}$ RMS value according to IEC 60947-2 | | | | | |
| Up to 240 V AC | kA | 100/75 | 100/75 | 100/75 | 100/75 |
| Up to 415 V AC | kA | 70/70 | 70/70 | 70/70 | 70/70 |
| Up to 690 V AC | kA | 10/5 [5] | 12/6 | 12/6 | 15/8 |
| Up to 250 V DC [3] | kA | 30/30 | 30/30 | 30/30 | 30/30 |
| Very high breaking capacity L (L) | | | | | |
| Up to 240 V AC | kA | -- | 200 | 200 | 200 |
| Up to 480 V AC | kA | -- | 100 | 100 | 100 |
| Up to 600 V AC | kA | -- | -- | -- | 25 |
| Up to 600/347 V AC | kA | -- | 18 | 18 | -- |
| Up to 250 V DC [3] | kA | -- | 30 | 30 | 30 |
| Up to 500 V DC [3] [4] | kA | -- | 18 | 30 | 35 |
| Breaking capacity $I_{cu}/I_{cs}$ RMS value according to IEC 60947-2 | | | | | |
| Up to 240 V AC | kA | -- | 200/150 | 200/150 | 200/150 |
| Up to 415 V AC | kA | -- | 100/75 | 100/75 | 100/75 |
| Up to 690 V AC | kA | -- | 12/6 | 12/6 | 15/8 |
| Up to 250 V DC [3] | kA | -- | 30/30 | 30/30 | 30/30 |

✓ Available -- Not available

1) 80 % rated current applications according to UL 489, 100 % rated current applications according to IEC 60947-2.

2) Rated DC voltage applies only for molded case circuit breakers with thermal-magnetic release.

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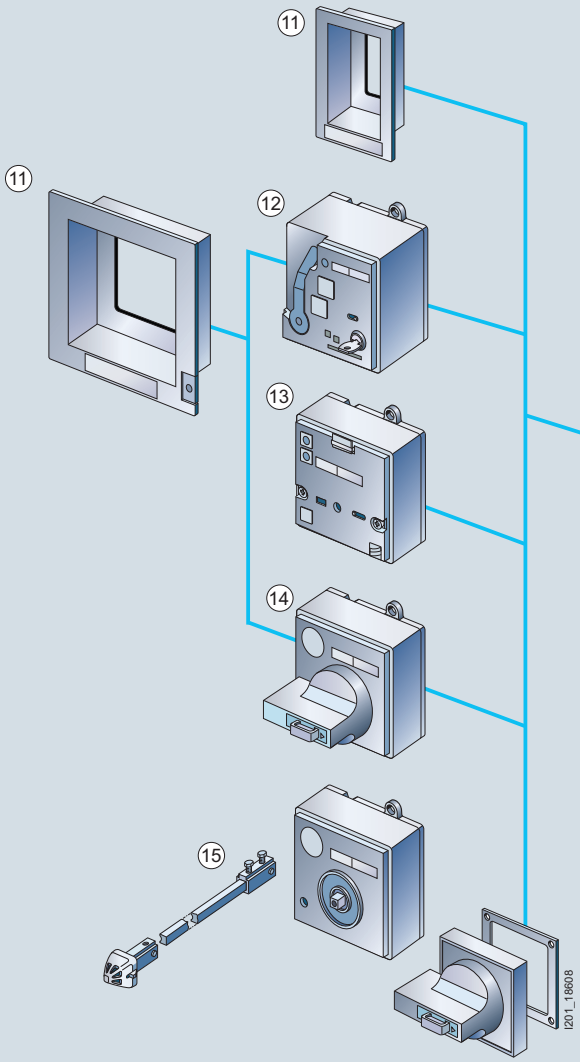


| | | | | |
|---|---|---|---|---|
| |  |  |  |  |
| | VL400X UL, LG frame | VL800 UL, MG frame | VL1200 UL, NG frame | VL1600 UL, PG frame |
| **3VL molded case circuit breakers up to 1600 A, according to UL 489** | | | | |
| 400 to 600 | 600 to 800 | 800 to 1200 | 1200 to 1600 | |
| 3 | 3 | 3 | 3 | |
| 600<br>500 | 600<br>500 | 600<br>500 | 600<br>500 | |
| ✓<br>✓<br>✓ | ✓<br>✓<br>✓ | ✓<br>✓<br>✓ | ✓<br>✓<br>✓ | |
| 139<br>279<br>102<br>138 | 190<br>406<br>118<br>151 | 229<br>406<br>157<br>209 | 229<br>406<br>157<br>209 | |
| | | | | |
| 65<br>35<br>18<br>--<br>30<br>25 | 65<br>35<br>25<br>--<br>22<br>35 | 65<br>35<br>25<br>--<br>22<br>35 | 65<br>35<br>25<br>--<br>22<br>35 | |
| 65/65<br>45/45<br>12/6<br>30/30 | 65/65<br>50/50<br>20/10<br>30/30 | 65/35<br>50/25<br>20/10<br>30/30 | 65/35<br>50/25<br>20/10<br>30/30 | |
| | | | | |
| 100<br>65<br>18<br>--<br>30<br>35 | 100<br>65<br>35<br>--<br>25<br>50 | 100<br>65<br>35<br>--<br>25<br>50 | 100<br>65<br>35<br>--<br>25<br>50 | |
| 100/75<br>70/70<br>15/8<br>30/30 | 100/75<br>70/70<br>20/10<br>30/30 | 100/50<br>70/35<br>30/15<br>30/30 | 100/50<br>70/35<br>30/15<br>30/30 | |
| | | | | |
| 200<br>100<br>18<br>--<br>30<br>35 | 200<br>100<br>50<br>--<br>42<br>65 | 200<br>100<br>65<br>--<br>42<br>65 | 200<br>100<br>65<br>--<br>42<br>65 | |
| 200/150<br>100/75<br>15/8<br>30/30 | 200/150<br>100/75<br>20/10<br>30/30 | 200/100<br>100/50<br>35/17<br>30/30 | 200/100<br>100/50<br>35/17<br>30/30 | |

3) The maximum permitted DC voltage for each conducting path needs to be taken into account for DC switching applications.
4) 500 V DC rated / 600 V DC max. for use in ungrounded UPS DC applications (according to UL 489, Supplement SC)
5) Rated current $I_n \geq 25$ A.

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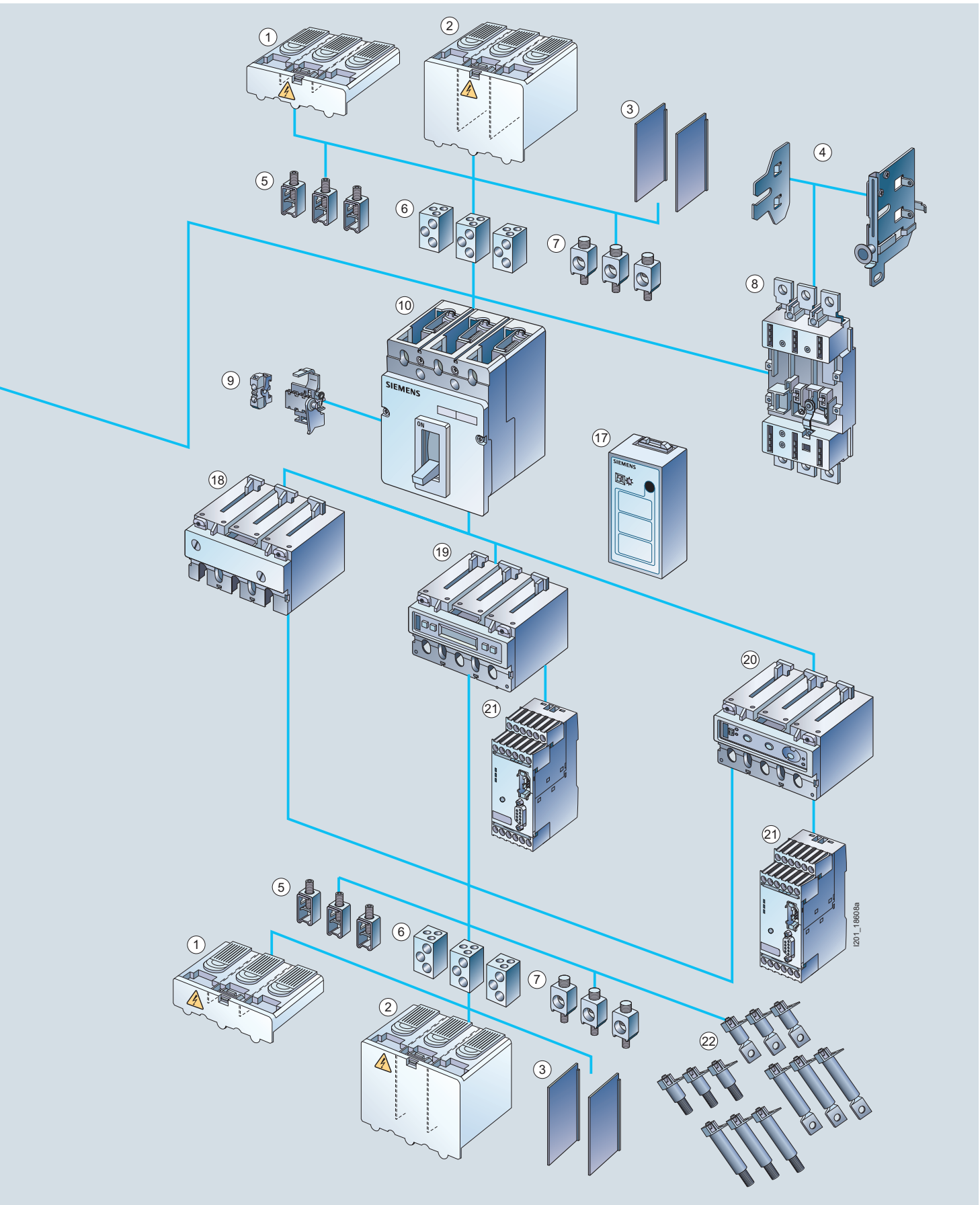





1 Standard terminal cover
2 Extended terminal cover
3 Phase barriers
4 Side panels of the withdrawable unit
5 Box terminal for Cu
6 Multiple feed-in terminal for Al/Cu (size-dependent)
7 Circular conductor terminal for Al/Cu
8 Withdrawable/plug-in base
9 Internal accessories
10 3VL molded case circuit breakers
11 Masking frame/cover frame for door cutout
12 Motorized operating mechanism with stored energy mechanism (SEO), only CG frame to MG frame
13 Motorized operating mechanism (MO), only NG frame and PG frame
14 Front-operated rotary operating mechanism
15 Door-coupling rotary operating mechanism
16 Max Flex operating mechanism
17 Battery power supply with test function for electronic release
18 Thermal-magnetic release
19 Electronic Trip Unit with LCD (LCD ETU)
20 Electronic Trip Unit with setting knobs (ETU)
21 Communication module COM20/21 (Release 2)
22 Rear terminals – flat and round

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## Benefits




- 3VL molded case circuit breakers according to UL 489 optimally fulfill the high demands prevalent in modern power distribution.
- The molded case circuit breakers have a compact design and at the same time a high breaking capacity of up to 100 kA at 480 V.
- They are available both in thermal-magnetic (20 A to 1600 A) and in electronic versions (60 A to 1600 A).
- Via PROFIBUS DP and Modbus RTU, the molded case circuit breakers with Electronic Trip Units (ETUs) are consistently communication-capable.

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## Application

The different versions of 3VL molded case circuit breakers according to UL are suitable for the following applications:

- Incoming circuit breakers (feeders) and outgoing circuit breakers (branches) in distribution systems
- Switching and protection devices for motors (motor protection in combination with a contactor and motor protection relay), transformers and capacitors
- Disconnecting means with features for stopping and switching off in an emergency (main disconnecting means and EMERGENCY-STOP switches) in conjunction with lockable rotary operating mechanisms.

The 3VL molded case circuit breakers according to UL are available in the following versions:

1. For line protection
   The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads.
2. For starter combinations
   These molded case circuit breakers are used both for short-circuit protection as well as for isolating functions, which may be required in starter combinations consisting of molded case circuit breakers, overload relays and motor contactors. These molded case circuit breakers exclusively feature adjustable, instantaneous short-circuit releases.
3. As non-automatic circuit breakers
   These molded case circuit breakers can be used as feeder circuit breakers, main control switches or non-automatic circuit breakers without overload protection. They incorporate an integrated short-circuit self-protection system.

### *Breaking capacity*

| | |
|---|---|
| (N) | Molded case circuit breakers with standard breaking capacity N (up to 35 kA at 480 V) |
| (H) | Molded case circuit breakers with high breaking capacity H (up to 65 kA at 480 V) |
| (L) | Molded case circuit breakers with very high breaking capacity L (up to 100 kA at 480 V) |

### *Standards and specifications*

3VL molded case circuit breakers according to UL comply with:

UL 489,
CSA (CSA C22.2 No. 5),
IEC/EN 60947-2,
For isolating features according to IEC 60947-2, EN 60947-2,
NOM (NMX-J-266-ANCE), please inquire.
CCC (only VL2 UL/DG, VL3 UL/FG, VL4 UL/JG and VL4X UL/LG)
GOST and FireSafety (Russia)

The 3VL UL molded case circuit breakers comply in addition with requirements for "disconnecting means with features for stopping and switching off in an emergency" (EMERGENCY-STOP switches) in conjunction with lockable rotary operating mechanisms (red-yellow).

Please contact Siemens for details of other standards.

### *Operating conditions*

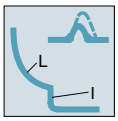
The 3VL molded case circuit breakers according to UL are designed for operation in enclosed areas.

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## Selection and ordering data

**Standard breaking capacity N, up to 35 kA at 480 V** see "Overview". (N)

| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | DT | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | | | | | | | kg |
| **Fixed-mounted molded case circuit breakers, VL150X UL (CG frame) up to VL1600 UL (PG frame), thermal-magnetic releases (UL file: E10848, CCN[1]: DIVQ)** | | | | | | | | | | |
| | | | | | ***Line protection, TM, LI function*** | | | | | |
|  I201_19069 | | | | | With non-adjustable thermal overcurrent releases, adjustable short-circuit releases, VL150X UL: non-adjustable short-circuit releases<br>Connection type:<br>Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/251 to 2/254 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262. | | | | | |
| VL150X UL, CG frame | 20 | 20 | 300 | | **3VL1102-1KM30-□□□□** | | 1 unit | 1CC | | 1.900 |
| | 25 | 25 | 300 | | **3VL1125-1KM30-□□□□** | | 1 unit | 1CC | | 2.000 |
| | 30 | 30 | 300 | | **3VL1103-1KM30-□□□□** | | 1 unit | 1CC | | 2.000 |
| | 35 | 35 | 600 | | **3VL1135-1KM30-□□□□** | | 1 unit | 1CC | | 2.000 |
| | 40 | 40 | 600 | | **3VL1104-1KM30-□□□□** | | 1 unit | 1CC | | 2.000 |
| | 50 | 50 | 600 | | **3VL1105-1KM30-□□□□** | | 1 unit | 1CC | | 2.000 |
| | 60 | 60 | 600 | | **3VL1106-1KM30-□□□□** | | 1 unit | 1CC | | 2.000 |
| | 70 | 70 | 1000 | | **3VL1107-1KM30-□□□□** | | 1 unit | 1CC | | 2.000 |
| | 80 | 80 | 1000 | | **3VL1108-1KM30-□□□□** | | 1 unit | 1CC | | 2.000 |
| | 90 | 90 | 1000 | | **3VL1191-1KM30-□□□□** | | 1 unit | 1CC | | 2.000 |
| | 100 | 100 | 1000 | | **3VL1110-1KM30-□□□□** | | 1 unit | 1CC | | 2.000 |
| | 125 | 125 | 1000 | | **3VL1112-1KM30-□□□□** | | 1 unit | 1CC | | 2.000 |
| | 150 | 150 | 1500 | | **3VL1115-1KM30-□□□□** | | 1 unit | 1CC | | 2.000 |
| VL150 UL, DG frame | 50 | 50 | 450 ... 700 | | **3VL2505-1KN30-□□□□** | | 1 unit | 1CC | | 2.200 |
| | 60 | 60 | 450 ... 700 | | **3VL2506-1KN30-□□□□** | | 1 unit | 1CC | | 2.200 |
| | 70 | 70 | 450 ... 700 | | **3VL2507-1KN30-□□□□** | | 1 unit | 1CC | | 2.200 |
| | 80 | 80 | 450 ... 800 | | **3VL2508-1KN30-□□□□** | | 1 unit | 1CC | | 2.200 |
| | 90 | 90 | 500 ... 1000 | | **3VL2591-1KN30-□□□□** | | 1 unit | 1CC | | 2.200 |
| | 100 | 100 | 500 ... 1000 | | **3VL2510-1KN30-□□□□** | | 1 unit | 1CC | | 2.200 |
| | 110 | 110 | 550 ... 1100 | | **3VL2511-1KN30-□□□□** | | 1 unit | 1CC | | 2.200 |
| | 125 | 125 | 625 ... 1250 | | **3VL2512-1KN30-□□□□** | | 1 unit | 1CC | | 2.200 |
| | 150 | 150 | 800 ... 1600 | | **3VL2515-1KN30-□□□□** | | 1 unit | 1CC | | 2.200 |
| VL250 UL, FG frame | 100 | 100 | 625 ... 1250 | | **3VL3510-1KN30-□□□□** | | 1 unit | 1CC | | 2.300 |
| | 110 | 110 | 800 ... 1600 | | **3VL3511-1KN30-□□□□** | | 1 unit | 1CC | | 2.300 |
| | 125 | 125 | 800 ... 1600 | | **3VL3512-1KN30-□□□□** | | 1 unit | 1CC | | 2.300 |
| | 150 | 150 | 800 ... 1600 | | **3VL3515-1KN30-□□□□** | | 1 unit | 1CC | | 2.300 |
| | 175 | 175 | 1000 ... 2000 | | **3VL3517-1KN30-□□□□** | | 1 unit | 1CC | | 2.300 |
| | 200 | 200 | 1000 ... 2000 | | **3VL3520-1KN30-□□□□** | | 1 unit | 1CC | | 2.300 |
| | 225 | 225 | 1250 ... 2500 | | **3VL3522-1KN30-□□□□** | | 1 unit | 1CC | | 2.300 |
| | 250 | 250 | 1250 ... 2500 | | **3VL3525-1KN30-□□□□** | | 1 unit | 1CC | | 2.300 |
| VL400 UL, JG frame | 250 | 250 | 1250 ... 2500 | | **3VL4125-1KN30-□□□□** | | 1 unit | 1CC | | 5.700 |
| | 300 | 300 | 1500 ... 3000 | | **3VL4130-1KN30-□□□□** | | 1 unit | 1CC | | 5.700 |
| | 350 | 350 | 1750 ... 3500 | | **3VL4135-1KN30-□□□□** | | 1 unit | 1CC | | 5.700 |
| | 400 | 400 | 2000 ... 4000 | | **3VL4140-1KN30-□□□□** | | 1 unit | 1CC | | 5.700 |
| VL400X UL, LG frame | 400 | 400 | 2000 ... 4000 | | **3VL4840-1KN30-□□□□** | | 1 unit | 1CC | | 5.700 |
| | 500 | 500 | 2500 ... 5000 | | **3VL4850-1KN30-□□□□** | | 1 unit | 1CC | | 5.700 |
| | 600 | 600 | 2750 ... 5500 | | **3VL4860-1KN30-□□□□** | | 1 unit | 1CC | | 5.700 |
| VL800 UL, MG frame | 600 | 600 | 3000 ... 6000 | | **3VL6160-1KN30-□□□□** | | 1 unit | 1CC | | 14.000 |
| | 700 | 700 | 3250 ... 6500 | | **3VL6170-1KN30-□□□□** | | 1 unit | 1CC | | 14.000 |
| | 800 | 800 | 3250 ... 6500 | | **3VL6180-1KN30-□□□□** | | 1 unit | 1CC | | 14.000 |
| VL1200 UL, NG frame | 800 | 800 | 4000 ... 8000 | | **3VL7180-1KN30-□□□□** | | 1 unit | 1CC | | 21.800 |
| | 900 | 900 | 5000 ... 10000 | | **3VL7190-1KN30-□□□□** | | 1 unit | 1CC | | 21.800 |
| | 1000 | 1000 | 5000 ... 10000 | | **3VL7110-1KN30-□□□□** | | 1 unit | 1CC | | 21.800 |
| | 1200 | 1200 | 7000 ... 12000 | | **3VL7112-1KN30-□□□□** | | 1 unit | 1CC | | 21.800 |
| VL1600 UL, PG frame[2] | 1200 | 1200 | 7000 ... 12000 | | **3VL8112-1KN30-□□□□** | | 1 unit | 1CC | | 32.800 |
| | 1400 | 1400 | 7000 ... 12000 | | **3VL8114-1KN30-□□□□** | | 1 unit | 1CC | | 32.800 |
| | 1600 | 1600 | 7000 ... 12000 | | **3VL8116-1KN30-□□□□** | | 1 unit | 1CC | | 32.800 |

1) UL Category Code Number.

2) Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/262).



* You can order this quantity or a multiple thereof.

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| DT | High breaking capacity H, up to 65 kA at 480 V (H) | | | | | | DT | Very high breaking capacity L, up to 100 kA at 480 V (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | 3VL1102-2KM30-□□□□ | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | 3VL1125-2KM30-□□□□ | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | 3VL1103-2KM30-□□□□ | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | 3VL1135-2KM30-□□□□ | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | 3VL1104-2KM30-□□□□ | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | 3VL1105-2KM30-□□□□ | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | 3VL1106-2KM30-□□□□ | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | 3VL1107-2KM30-□□□□ | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | 3VL1108-2KM30-□□□□ | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | 3VL1191-2KM30-□□□□ | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | 3VL1110-2KM30-□□□□ | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | 3VL1112-2KM30-□□□□ | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | 3VL1115-2KM30-□□□□ | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | 3VL2505-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 | | 3VL2505-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 3VL2506-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 | | 3VL2506-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 3VL2507-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 | | 3VL2507-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 3VL2508-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 | | 3VL2508-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 3VL2591-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 | | 3VL2591-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 3VL2510-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 | | 3VL2510-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 3VL2511-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 | | 3VL2511-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 3VL2512-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 | | 3VL2512-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 3VL2515-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 | | 3VL2515-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.200 |
| | 3VL3510-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 | | 3VL3510-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 |
| | 3VL3511-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 | | 3VL3511-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 |
| | 3VL3512-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 | | 3VL3512-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 |
| | 3VL3515-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 | | 3VL3515-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 |
| | 3VL3517-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 | | 3VL3517-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 |
| | 3VL3520-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 | | 3VL3520-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 |
| | 3VL3522-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 | | 3VL3522-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 |
| | 3VL3525-2KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 | | 3VL3525-3KN30-□□□□ | | 1 | 1 unit | 1CC | 2.300 |
| | 3VL4125-2KN30-□□□□ | | 1 | 1 unit | 1CC | 5.700 | | 3VL4125-3KN30-□□□□ | | 1 | 1 unit | 1CC | 5.700 |
| | 3VL4130-2KN30-□□□□ | | 1 | 1 unit | 1CC | 5.700 | | 3VL4130-3KN30-□□□□ | | 1 | 1 unit | 1CC | 5.700 |
| | 3VL4135-2KN30-□□□□ | | 1 | 1 unit | 1CC | 5.700 | | 3VL4135-3KN30-□□□□ | | 1 | 1 unit | 1CC | 5.700 |
| | 3VL4140-2KN30-□□□□ | | 1 | 1 unit | 1CC | 5.700 | | 3VL4140-3KN30-□□□□ | | 1 | 1 unit | 1CC | 5.700 |
| | 3VL4840-2KN30-□□□□ | | 1 | 1 unit | 1CC | 5.700 | | 3VL4840-3KN30-□□□□ | | 1 | 1 unit | 1CC | 5.700 |
| | 3VL4850-2KN30-□□□□ | | 1 | 1 unit | 1CC | 5.700 | | 3VL4850-3KN30-□□□□ | | 1 | 1 unit | 1CC | 5.700 |
| | 3VL4860-2KN30-□□□□ | | 1 | 1 unit | 1CC | 5.700 | | 3VL4860-3KN30-□□□□ | | 1 | 1 unit | 1CC | 5.700 |
| | 3VL6160-2KN30-□□□□ | | 1 | 1 unit | 1CC | 14.000 | | 3VL6160-3KN30-□□□□ | | 1 | 1 unit | 1CC | 14.000 |
| | 3VL6170-2KN30-□□□□ | | 1 | 1 unit | 1CC | 14.000 | | 3VL6170-3KN30-□□□□ | | 1 | 1 unit | 1CC | 14.000 |
| | 3VL6180-2KN30-□□□□ | | 1 | 1 unit | 1CC | 14.000 | | 3VL6180-3KN30-□□□□ | | 1 | 1 unit | 1CC | 14.000 |
| | 3VL7180-2KN30-□□□□ | | 1 | 1 unit | 1CC | 21.800 | | 3VL7180-3KN30-□□□□ | | 1 | 1 unit | 1CC | 21.800 |
| | 3VL7190-2KN30-□□□□ | | 1 | 1 unit | 1CC | 21.800 | | 3VL7190-3KN30-□□□□ | | 1 | 1 unit | 1CC | 21.800 |
| | 3VL7110-2KN30-□□□□ | | 1 | 1 unit | 1CC | 21.800 | | 3VL7110-3KN30-□□□□ | | 1 | 1 unit | 1CC | 21.800 |
| | 3VL7112-2KN30-□□□□ | | 1 | 1 unit | 1CC | 21.800 | | 3VL7112-3KN30-□□□□ | | 1 | 1 unit | 1CC | 21.800 |
| | 3VL8112-2KN30-□□□□ | | 1 | 1 unit | 1CC | 32.800 | | 3VL8112-3KN30-□□□□ | | 1 | 1 unit | 1CC | 32.800 |
| | 3VL8114-2KN30-□□□□ | | 1 | 1 unit | 1CC | 32.800 | | 3VL8114-3KN30-□□□□ | | 1 | 1 unit | 1CC | 32.800 |
| | 3VL8116-2KN30-□□□□ | | 1 | 1 unit | 1CC | 32.800 | | 3VL8116-3KN30-□□□□ | | 1 | 1 unit | 1CC | 32.800 |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### 3-pole

| Type | Rated current $I_n$ | | Operating current of the instantaneous short-circuit protection "I" $I_i$ | DT | Standard breaking capacity N, up to 35 kA at 480 V see "Overview". (N) Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | | A | | | | | | | kg |
| **Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) to VL1600 UL (PG frame), magnetic and Electronic Trip Units** | | | | | | | | | | |
|  NSE0_00707 | | | | | ***Molded case circuit breakers for starter combination, I function (motor circuit protectors; UL file: E10848, CCN[1]: DKPUZ)[2]*** Without overcurrent release, with adjustable short-circuit release. Connection type: Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/251 to 2/254 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262. | | | | | |
| VL150 UL, DG frame | 150<br>150<br>150 | | 450 ... 900<br>750 ... 1500<br>1250 ... 2500 | | --<br>--<br>-- | | | | | |
| VL250 UL, FG frame | 250<br>250<br>250 | | 600 ... 1200<br>1000 ... 2000<br>1750 ... 3500 | | --<br>--<br>-- | | | | | |
| VL400 UL, JG frame | 400<br>400[3] | | 1250 ... 2500<br>2000 ... 4000 | | --<br>-- | | | | | |
| VL400X UL, LG frame | 600<br>600[3] | | 2000 ... 4000<br>2750 ... 5500 | | --<br>-- | | | | | |
| VL800 UL, MG frame | 800 | | 3250 ... 6500 | | -- | | | | | |
| VL1200 UL, NG frame | 1200 | | 7000 ... 12000 | | -- | | | | | |
|  NSE0_00708 | | | | | ***Non-automatic molded case circuit breakers (molded case switches; UL file: E68312, CCN[1]: WJAZ)*** Without overcurrent release, with non-adjustable short-circuit release (for intrinsic protection only). Connection type: Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/251 to 2/254 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262. | | | | | |
| VL150X UL, CG frame | 100<br>150 | | 1800<br>1800 | | **3VL1110-1KE30-□□□□**<br>**3VL1115-1KE30-□□□□** | 1<br>1 | 1 unit<br>1 unit | 1CC<br>1CC | 2.000<br>2.000 | |
| VL150 UL, DG frame | 150 | | 2500 | | -- | | | | | |
| VL250 UL, FG frame | 250 | | 3500 | | -- | | | | | |
| VL400 UL, JG frame | 400 | | 4400 | | -- | | | | | |
| VL400X UL, LG frame | 600 | | 5500 | | -- | | | | | |
| VL800 UL, MG frame | 800 | | 6500 | | -- | | | | | |
| VL1200 UL, NG frame | 1200 | | 12000 | | -- | | | | | |
| VL1600 UL, PG frame[4] | 1600 | | 14000 | | -- | | | | | |

1) UL Category Code Number.

2) UL-recognized.

3) Motor current according to NEC 430-110.

4) Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/262).



* You can order this quantity or a multiple thereof.

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| DT | High breaking capacity H, up to 65 kA at 480 V (H) | | | | | | DT | Very high breaking capacity L, up to 100 kA at 480 V (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2515-2KJ30-□□□□** | | 1 | 1 unit | 1CC | 2.200 | | -- | | | | | |
| | **3VL2515-2KK30-□□□□** | | 1 | 1 unit | 1CC | 2.200 | | -- | | | | | |
| | **3VL2515-2KL30-□□□□** | | 1 | 1 unit | 1CC | 2.200 | | -- | | | | | |
| | **3VL3525-2KJ30-□□□□** | | 1 | 1 unit | 1CC | 2.300 | | -- | | | | | |
| | **3VL3525-2KK30-□□□□** | | 1 | 1 unit | 1CC | 2.300 | | -- | | | | | |
| | **3VL3525-2KL30-□□□□** | | 1 | 1 unit | 1CC | 2.300 | | -- | | | | | |
| | **3VL4140-2KJ30-□□□□** | | 1 | 1 unit | 1CC | 5.700 | | -- | | | | | |
| | **3VL4140-2KK30-□□□□** | | 1 | 1 unit | 1CC | 5.700 | | -- | | | | | |
| | **3VL4860-2KJ30-□□□□** | | 1 | 1 unit | 1CC | 5.700 | | -- | | | | | |
| | **3VL4860-2KK30-□□□□** | | 1 | 1 unit | 1CC | 5.700 | | -- | | | | | |
| | **3VL6180-2KK30-□□□□** | | 1 | 1 unit | 1CC | 14.000 | | -- | | | | | |
| | **3VL7112-2KK30-□□□□** | | 1 | 1 unit | 1CC | 21.800 | | -- | | | | | |
| | **3VL1110-2KE30-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL1115-2KE30-□□□□** | | 1 | 1 unit | 1CC | 2.000 | | -- | | | | | |
| | **3VL2515-2KE30-□□□□** | | 1 | 1 unit | 1CC | 2.200 | | **3VL2515-3KE30-□□□□** | | 1 | 1 unit | 1CC | 2.200 |
| | **3VL3525-2KE30-□□□□** | | 1 | 1 unit | 1CC | 2.300 | | **3VL3525-3KE30-□□□□** | | 1 | 1 unit | 1CC | 2.300 |
| | **3VL4140-2KE30-□□□□** | | 1 | 1 unit | 1CC | 5.700 | | **3VL4140-3KE30-□□□□** | | 1 | 1 unit | 1CC | 5.700 |
| | **3VL4860-2KE30-□□□□** | | 1 | 1 unit | 1CC | 5.700 | | **3VL4860-3KE30-□□□□** | | 1 | 1 unit | 1CC | 5.700 |
| | **3VL6180-2KE30-□□□□** | | 1 | 1 unit | 1CC | 15.700 | | **3VL6180-3KE30-□□□□** | | 1 | 1 unit | 1CC | 15.700 |
| | **3VL7112-2KE30-□□□□** | | 1 | 1 unit | 1CC | 23.500 | | **3VL7112-3KE30-□□□□** | | 1 | 1 unit | 1CC | 23.500 |
| | **3VL8116-2KE30-□□□□** | | 1 | 1 unit | 1CC | 29.800 | | **3VL8116-3KE30-□□□□** | | 1 | 1 unit | 1CC | 29.800 |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

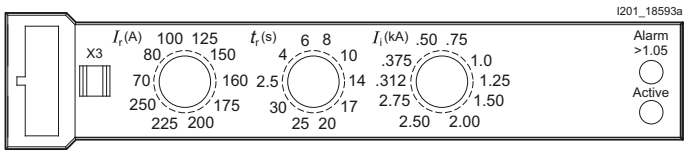
## 3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### 3-pole

| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Response time of the inverse-time delayed overload protection "L" $t_r$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | DT | Standard breaking capacity N, up to 35 kA at 480 V see "Overview". (N) Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | s | A | | | | | | | kg |
| **Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN[1]: DIVQ)** | | | | | | | | | | | |
| VL150 UL, DG frame | 60 | 30 ... 60 | 2.5 ... 30 | 75 ... 660 (11 x $I_n$) | | 3VL2506-1PB30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 40 ... 100 | 2.5 ... 30 | 125 ... 1100 (11 x $I_n$) | | 3VL2510-1PB30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 150 | 60 ... 150 | 2.5 ... 30 | 187 ... 1650 (11 x $I_n$) | | 3VL2515-1PB30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| VL250 UL, FG frame | 100 | 40 ... 100 | 2.5 ... 30 | 125 ... 1100 (11 x $I_n$) | | 3VL3510-1PB30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 150 | 60 ... 150 | 2.5 ... 30 | 187 ... 1650 (11 x $I_n$) | | 3VL3515-1PB30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 70 ... 250 | 2.5 ... 30 | 312 ... 2750 (11 x $I_n$) | | 3VL3525-1PB30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| VL400 UL, JG frame | 250 | 70 ... 250 | 2.5 ... 30 | 312 ... 2750 (11 x $I_n$) | | 3VL4125-1PB30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 400 | 150 ... 400 | 2.5 ... 30 | 500 ... 4400 (11 x $I_n$) | | 3VL4140-1PB30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| VL400X UL, LG frame | 400 | 150 ... 400 | 2.5 ... 30 | 500 ... 4400 (11 x $I_n$) | | 3VL4840-1PB30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 600 | 200 ... 600 | 2.5 ... 30 | 750 ... 6000 (10 x $I_n$) | | 3VL4860-1PB30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| VL800 UL, MG frame | 600 | 200 ... 600 | 2.5 ... 30 | 750 ... 6000 (10 x $I_n$) | | 3VL6160-1PB30-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| | 800 | 300 ... 800 | 2.5 ... 30 | 1000 ... 6000 (7.5 x $I_n$) | | 3VL6180-1PB30-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| VL1200 UL, NG frame | 800 | 300 ... 800 | 2.5 ... 30 | 1000 ... 8800 (11 x $I_n$) | | 3VL7180-1PB30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 1000 | 400 ... 1000 | 2.5 ... 30 | 1250 ... 11000 (11 x $I_n$) | | 3VL7110-1PB30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 1200 | 400 ... 1200 | 2.5 ... 30 | 1500 ... 12000 (10 x $I_n$) | | 3VL7112-1PB30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| VL1600 UL, PG frame[2] | 1200 | 400 ... 1200 | 2.5 ... 30 | 1500 ... 12000 (10 x $I_n$) | | 3VL8112-1PB30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |
| | 1600 | 700 ... 1600 | 2.5 ... 30 | 2000 ... 9600 (6 x $I_n$) | | 3VL8116-1PB30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |



NSE0_00691




***Line protection***

With Electronic Trip Units ETU (model 555)
LI function

Connection type:
Molded case circuit breakers without preassembled connections,
connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/251 to 2/254 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262.

L = overload

I = short-circuit protection, instantaneous

1) UL Category Code Number.

2) Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/262).



* You can order this quantity or a multiple thereof.

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| DT | High breaking capacity H, up to 65 kA at 480 V (H) | | | | | | DT | Very high breaking capacity L, up to 100 kA at 480 V (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | 3VL2506-2PB30-□□□□ | | 1 | 1 unit | 1CC | 2.400 | | 3VL2506-3PB30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 3VL2510-2PB30-□□□□ | | 1 | 1 unit | 1CC | 2.400 | | 3VL2510-3PB30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 3VL2515-2PB30-□□□□ | | 1 | 1 unit | 1CC | 2.400 | | 3VL2515-3PB30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 3VL3510-2PB30-□□□□ | | 1 | 1 unit | 1CC | 2.500 | | 3VL3510-3PB30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 3VL3515-2PB30-□□□□ | | 1 | 1 unit | 1CC | 2.500 | | 3VL3515-3PB30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 3VL3525-2PB30-□□□□ | | 1 | 1 unit | 1CC | 2.500 | | 3VL3525-3PB30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 3VL4125-2PB30-□□□□ | | 1 | 1 unit | 1CC | 5.900 | | 3VL4125-3PB30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 3VL4140-2PB30-□□□□ | | 1 | 1 unit | 1CC | 5.900 | | 3VL4140-3PB30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 3VL4840-2PB30-□□□□ | | 1 | 1 unit | 1CC | 5.900 | | 3VL4840-3PB30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 3VL4860-2PB30-□□□□ | | 1 | 1 unit | 1CC | 5.900 | | 3VL4860-3PB30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 3VL6160-2PB30-□□□□ | | 1 | 1 unit | 1CC | 16.000 | | 3VL6160-3PB30-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| | 3VL6180-2PB30-□□□□ | | 1 | 1 unit | 1CC | 16.000 | | 3VL6180-3PB30-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| | 3VL7180-2PB30-□□□□ | | 1 | 1 unit | 1CC | 25.000 | | 3VL7180-3PB30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 3VL7110-2PB30-□□□□ | | 1 | 1 unit | 1CC | 25.000 | | 3VL7110-3PB30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 3VL7112-2PB30-□□□□ | | 1 | 1 unit | 1CC | 25.000 | | 3VL7112-3PB30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 3VL8112-2PB30-□□□□ | | 1 | 1 unit | 1CC | 31.300 | | 3VL8112-3PB30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |
| | 3VL8116-2PB30-□□□□ | | 1 | 1 unit | 1CC | 31.300 | | 3VL8116-3PB30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |

*** You can order this quantity or a multiple thereof.**

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# Molded Case Circuit Breakers

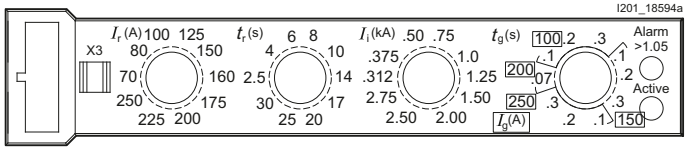
## 3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### 3-pole

| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Response time of the inverse-time delayed overload protection "L" $t_r$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | Standard setting of $I_g$/A and $t_g$/s | $t_g$/s adjustable to 0.1, 0.2 and 0.3 s for the following $I_g$ /A | DT | **Standard breaking capacity N, up to 35 kA at 480 V** see "Overview". (N) Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | s | A | | | | | | | | | kg |
| **Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN[1]: DIVQ)** | | | | | | | | | | | | | |
| *Line protection* | | | | | | | | | | | | | |
| With Electronic Trip Unit ETU (model 555) LIG function for 4-wire three-phase systems (vectorial summation current formation) Connection type: Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/251 to 2/254 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262. Current transformers must be ordered under "Accessories" page 2/270. | | | | | | | | | | | | | |
| VL150 UL, DG frame | 60 | 30 ... 60 | 2.5 ... 30 | 75 ... 660 (11 x $I_n$) | 48/0.07 | 24/36/60 | | 3VL2506-1PD30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 40 ... 100 | 2.5 ... 30 | 125 ... 1100 (11 x $I_n$) | 80/0.07 | 40/60/100 | | 3VL2510-1PD30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 150 | 60 ... 150 | 2.5 ... 30 | 187 ... 1650 (11 x $I_n$) | 120/0.07 | 60/90/150 | | 3VL2515-1PD30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| VL250 UL, FG frame | 100 | 40 ... 100 | 2.5 ... 30 | 125 ... 1100 (11 x $I_n$) | 80/0.07 | 40/60/100 | | 3VL3510-1PD30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 150 | 60 ... 150 | 2.5 ... 30 | 187 ... 1650 (11 x $I_n$) | 120/0.07 | 60/90/150 | | 3VL3515-1PD30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 70 ... 250 | 2.5 ... 30 | 312 ... 2750 (11 x $I_n$) | 200/0.07 | 100/150/250 | | 3VL3525-1PD30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| VL400 UL, JG frame | 250 | 70 ... 250 | 2.5 ... 30 | 312 ... 2750 (11 x $I_n$) | 200/0.07 | 100/150/250 | | 3VL4125-1PD30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 400 | 150 ... 400 | 2.5 ... 30 | 500 ... 4400 (11 x $I_n$) | 320/0.11 | 160/240/400 | | 3VL4140-1PD30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| VL400X UL, LG frame | 400 | 150 ... 400 | 2.5 ... 30 | 500 ... 4400 (11 x $I_n$) | 320/0.11 | 160/240/400 | | 3VL4840-1PD30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 600 | 200 ... 600 | 2.5 ... 30 | 750 ... 6000 (10 x $I_n$) | 360/0.18 | 240/360/600 | | 3VL4860-1PD30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| VL800 UL, MG frame | 600 | 200 ... 600 | 2.5 ... 30 | 750 ... 6000 (10 x $I_n$) | 360/0.18 | 240/360/600 | | 3VL6160-1PD30-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| | 800 | 300 ... 800 | 2.5 ... 30 | 1000 ... 6000 (7.5 x $I_n$) | 480/0.25 | 320/480/800 | | 3VL6180-1PD30-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| VL1200 UL, NG frame | 800 | 300 ... 800 | 2.5 ... 30 | 1000 ... 8800 (11 x $I_n$) | 480/0.25 | 320/480/800 | | 3VL7180-1PD30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 1000 | 400 ... 1000 | 2.5 ... 30 | 1250 ... 11000 (11 x $I_n$) | 600/0.32 | 400/600/1000 | | 3VL7110-1PD30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 1200 | 400 ... 1200 | 2.5 ... 30 | 1500 ... 12000 (10 x $I_n$) | 720/0.32 | 480/720/1200 | | 3VL7112-1PD30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| VL1600 UL, PG frame[2] | 1200 | 400 ... 1200 | 2.5 ... 30 | 1500 ... 12000 (10 x $I_n$) | 720/0.32 | 480/720/1200 | | 3VL8112-1PD30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |
| | 1600 | 700 ... 1600 | 2.5 ... 30 | 2000 ... 9600 (6 x $I_n$) | 960/0.4 | 640/960/1200 | | 3VL8116-1PD30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |



NSE0_00693




L = overload

I = short-circuit protection, instantaneous

G = ground-fault protection

1) UL Category Code Number.

2) Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/262).



* You can order this quantity or a multiple thereof.

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| DT | High breaking capacity H, up to 65 kA at 480 V (H) | | | | | | DT | Very high breaking capacity L, up to 100 kA at 480 V (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2506-2PD30-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2506-3PD30-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2510-2PD30-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2510-3PD30-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2515-2PD30-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2515-3PD30-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL3510-2PD30-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3510-3PD30-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3515-2PD30-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3515-3PD30-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3525-2PD30-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3525-3PD30-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL4125-2PD30-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4125-3PD30-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4140-2PD30-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4140-3PD30-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4840-2PD30-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4840-3PD30-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4860-2PD30-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4860-3PD30-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL6160-2PD30-□□□□** | | 1 | 1 unit | 1CC | 16.000 | | **3VL6160-3PD30-□□□□** | | 1 | 1 unit | 1CC | 16.000 |
| | **3VL6180-2PD30-□□□□** | | 1 | 1 unit | 1CC | 16.000 | | **3VL6180-3PD30-□□□□** | | 1 | 1 unit | 1CC | 16.000 |
| | **3VL7180-2PD30-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7180-3PD30-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL7110-2PD30-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7110-3PD30-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL7112-2PD30-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7112-3PD30-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL8112-2PD30-□□□□** | | 1 | 1 unit | 1CC | 31.300 | | **3VL8112-3PD30-□□□□** | | 1 | 1 unit | 1CC | 31.300 |
| | **3VL8116-2PD30-□□□□** | | 1 | 1 unit | 1CC | 31.300 | | **3VL8116-3PD30-□□□□** | | 1 | 1 unit | 1CC | 31.300 |

*** You can order this quantity or a multiple thereof.**

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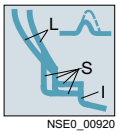
# Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

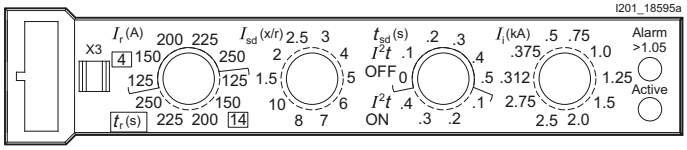
### 3-pole

| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Response time of the inverse-time delayed overload protection "L" $t_r$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | Operating current of the short-time delayed short-circuit protection "S" $I_{sd}$ | DT | **Standard breaking capacity N, up to 35 kA at 480 V** see "Overview". (N) Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | s | A | A | | | | | | | kg |

**Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN[1]): DIVQ**



NSE0_00920




***Line and generator protection***

With Electronic Trip Unit ETU (model 555)
LSI function ($t_{sd}$ = 0 to 0.5 s)
Connection type:
Molded case circuit breakers without preassembled connections,
connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/251 to 2/254 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VL150 UL, DG frame | 60 | 30 ... 60 | 4/14 | 75 ... 660 (11 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL2506-1PE30-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 40 ... 100 | 4/14 | 125 ... 1100 (11 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL2510-1PE30-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| | 150 | 60 ... 150 | 4/14 | 187 ... 1650 (11 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL2515-1PE30-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| VL250 UL, FG frame | 100 | 40 ... 100 | 4/14 | 125 ... 1100 (11 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL3510-1PE30-□□□□** | 1 | 1 unit | 1CC | 2.500 |
| | 150 | 60 ... 150 | 4/14 | 187 ... 1650 (11 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL3515-1PE30-□□□□** | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 125 ... 250 | 4/14 | 312 ... 2750 (11 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL3525-1PE30-□□□□** | 1 | 1 unit | 1CC | 2.500 |
| VL400 UL, JG frame | 250 | 125 ... 250 | 4/14 | 312 ... 2750 (11 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL4125-1PE30-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| | 400 | 200 ... 400 | 10/20 | 500 ... 4400 (11 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL4140-1PE30-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| VL400X UL, LG frame | 400 | 200 ... 400 | 10/20 | 500 ... 4400 (11 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL4840-1PE30-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| | 600 | 350 ... 600 | 10/20 | 750 ... 6000 (10 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL4860-1PE30-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| VL800 UL, MG frame | 600 | 350 ... 600 | 10/20 | 750 ... 6000 (10 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL6160-1PE30-□□□□** | 1 | 1 unit | 1CC | 16.000 |
| | 800 | 400 ... 800 | 10/20 | 1000 ... 6000 (7.5 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL6180-1PE30-□□□□** | 1 | 1 unit | 1CC | 16.000 |
| VL1200 UL, NG frame | 800 | 400 ... 800 | 10/20 | 1000 ... 8800 (11 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL7180-1PE30-□□□□** | 1 | 1 unit | 1CC | 25.000 |
| | 1000 | 600 ... 1000 | 10/20 | 1250 ... 11000 (11 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL7110-1PE30-□□□□** | 1 | 1 unit | 1CC | 25.000 |
| | 1200 | 700 ... 1200 | 10/20 | 1500 ... 12000 (10 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL7112-1PE30-□□□□** | 1 | 1 unit | 1CC | 25.000 |
| VL1600 UL, PG frame[2] | 1200 | 700 ... 1200 | 10/20 | 1500 ... 12000 (10 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL8112-1PE30-□□□□** | 1 | 1 unit | 1CC | 31.300 |
| | 1600 | 1000 ... 1600 | 10/20 | 2000 ... 9600 (6 x $I_n$) | 1.5 ... 10 x $I_r$ | **3VL8116-1PE30-□□□□** | 1 | 1 unit | 1CC | 31.300 |

L = overload

S = short-circuit protection, short-time delayed

I = short-circuit protection, instantaneous

1) UL Category Code Number.

2) Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/262).



* You can order this quantity or a multiple thereof.

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| DT | High breaking capacity H, up to 65 kA at 480 V (H) | | | | | | DT | Very high breaking capacity L, up to 100 kA at 480 V (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2506-2PE30-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2506-3PE30-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2510-2PE30-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2510-3PE30-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2515-2PE30-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2515-3PE30-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL3510-2PE30-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3510-3PE30-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3515-2PE30-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3515-3PE30-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3525-2PE30-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3525-3PE30-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL4125-2PE30-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4125-3PE30-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4140-2PE30-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4140-3PE30-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4840-2PE30-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4840-3PE30-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4860-2PE30-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4860-3PE30-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL6160-2PE30-□□□□** | | 1 | 1 unit | 1CC | 16.000 | | **3VL6160-3PE30-□□□□** | | 1 | 1 unit | 1CC | 16.000 |
| | **3VL6180-2PE30-□□□□** | | 1 | 1 unit | 1CC | 16.000 | | **3VL6180-3PE30-□□□□** | | 1 | 1 unit | 1CC | 16.000 |
| | **3VL7180-2PE30-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7180-3PE30-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL7110-2PE30-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7110-3PE30-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL7112-2PE30-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7112-3PE30-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL8112-2PE30-□□□□** | | 1 | 1 unit | 1CC | 31.300 | | **3VL8112-3PE30-□□□□** | | 1 | 1 unit | 1CC | 31.300 |
| | **3VL8116-2PE30-□□□□** | | 1 | 1 unit | 1CC | 31.300 | | **3VL8116-3PE30-□□□□** | | 1 | 1 unit | 1CC | 31.300 |

*** You can order this quantity or a multiple thereof.**

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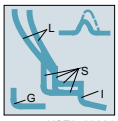


# Molded Case Circuit Breakers

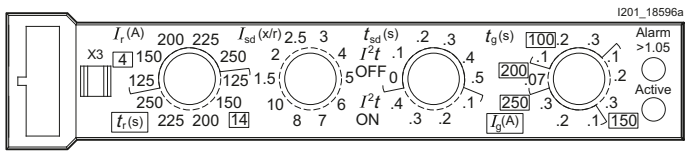
## 3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### 3-pole

| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Response time of the inverse-time delayed overload protection "L" $t_r$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | Operating current of the short-time delayed short-circuit protection "S" $I_{sd}$ | Standard setting of $I_g$/A and $t_g$/s | $t_g$/s adjustable to 0.1, 0.2 and 0.3 s for the following $I_g$ /A | DT | **Standard breaking capacity N, up to 35 kA at 480 V** see "Overview". (N) Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | s | A | A | | | | | | | | | kg |
| **Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN[1]): DIVQ** | | | | | | | | | | | | | | |
| VL150 UL, DG frame | 60 | 30 ... 60 | 4/14 | 300/660 (5/11 x $I_n$) | 1.5 ... 10 x $I_r$ | 48/0.07 | 24/36/60 | | 3VL2506-1PH30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 100 | 40 ... 100 | 4/14 | 500/1100 (5/11 x $I_n$) | 1.5 ... 10 x $I_r$ | 80/0.07 | 40/60/100 | | 3VL2510-1PH30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 150 | 60 ... 150 | 4/14 | 750/1650 (5/11 x $I_n$) | 1.5 ... 10 x $I_r$ | 120/0.07 | 60/90/150 | | 3VL2515-1PH30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| VL250 UL, FG frame | 100 | 40 ... 100 | 4/14 | 500/1100 (5/11 x $I_n$) | 1.5 ... 10 x $I_r$ | 80/0.07 | 40/60/100 | | 3VL3510-1PH30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 150 | 60 ... 150 | 4/14 | 750/1650 (5/11 x $I_n$) | 1.5 ... 10 x $I_r$ | 120/0.07 | 60/90/150 | | 3VL3515-1PH30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 125 ... 250 | 4/14 | 1250/2750 (5/11 x $I_n$) | 1.5 ... 10 x $I_r$ | 200/0.07 | 100/150/250 | | 3VL3525-1PH30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| VL400 UL, JG frame | 250 | 125 ... 250 | 4/14 | 1250/2750 (5/11 x $I_n$) | 1.5 ... 10 x $I_r$ | 200/0.07 | 100/150/250 | | 3VL4125-1PH30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 400 | 200 ... 400 | 10/20 | 2000/4400 (5/11 x $I_n$) | 1.5 ... 10 x $I_r$ | 320/0.11 | 160/240/400 | | 3VL4140-1PH30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| VL400X UL, LG frame | 400 | 200 ... 400 | 10/20 | 2000/4400 (5/11 x $I_n$) | 1.5 ... 10 x $I_r$ | 320/0.11 | 160/240/400 | | 3VL4840-1PH30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 600 | 350 ... 600 | 10/20 | 3000/6000 (5/10 x $I_n$) | 1.5 ... 10 x $I_r$ | 360/0.18 | 240/360/600 | | 3VL4860-1PH30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| VL800 UL, MG frame | 600 | 350 ... 600 | 10/20 | 3000/6000 (5/10 x $I_n$) | 1.5 ... 10 x $I_r$ | 360/0.18 | 240/360/600 | | 3VL6160-1PH30-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| | 800 | 400 ... 800 | 10/20 | 4000/6000 (5/7.5 x $I_n$) | 1.5 ... 10 x $I_r$ | 480/0.25 | 320/480/800 | | 3VL6180-1PH30-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| VL1200 UL, NG frame | 800 | 400 ... 800 | 10/20 | 4000/8800 (5/11 x $I_n$) | 1.5 ... 10 x $I_r$ | 480/0.25 | 320/480/800 | | 3VL7180-1PH30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 1000 | 600 ... 1000 | 10/20 | 5000/11000 (5/11 x $I_n$) | 1.5 ... 10 x $I_r$ | 600/0.32 | 400/600/1000 | | 3VL7110-1PH30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 1200 | 700 ... 1200 | 10/20 | 6000/12000 (5/10 x $I_n$) | 1.5 ... 10 x $I_r$ | 720/0.32 | 480/720/1200 | | 3VL7112-1PH30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| VL1600 UL, PG frame[2] | 1200 | 700 ... 1200 | 10/20 | 6000/12000 (5/10 x $I_n$) | 1.5 ... 10 x $I_r$ | 720/0.32 | 480/720/1200 | | 3VL8112-1PH30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |
| | 1600 | 1000...1600 | 10/20 | 8000/9600 (5/6 x $I_n$) | 1.5 ... 10 x $I_r$ | 960/0.4 | 640/960/1200 | | 3VL8116-1PH30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |



NSE0_00921




***Line and generator protection***

With Electronic Trip Unit ETU (model 555)
LSIG function ($t_{sd}$ = 0 to 0.5 s)
for 4-wire three-phase systems (vectorial summation current formation)
Connection type:
Molded case circuit breakers without preassembled connections,
connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/251 to 2/254 or
under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262.
Current transformers must be ordered under "Accessories" page 2/270.

L = overload

S = short-circuit protection, short-time delayed

I = short-circuit protection, instantaneous

G = ground-fault protection

1) UL Category Code Number.

2) Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/262).



* You can order this quantity or a multiple thereof.

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| DT | High breaking capacity H, up to 65 kA at 480 V (H) | | | | | | DT | Very high breaking capacity L, up to 100 kA at 480 V (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | **3VL2506-2PH30-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2506-3PH30-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2510-2PH30-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2510-3PH30-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL2515-2PH30-□□□□** | | 1 | 1 unit | 1CC | 2.400 | | **3VL2515-3PH30-□□□□** | | 1 | 1 unit | 1CC | 2.400 |
| | **3VL3510-2PH30-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3510-3PH30-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3515-2PH30-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3515-3PH30-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL3525-2PH30-□□□□** | | 1 | 1 unit | 1CC | 2.500 | | **3VL3525-3PH30-□□□□** | | 1 | 1 unit | 1CC | 2.500 |
| | **3VL4125-2PH30-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4125-3PH30-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4140-2PH30-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4140-3PH30-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4840-2PH30-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4840-3PH30-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL4860-2PH30-□□□□** | | 1 | 1 unit | 1CC | 5.900 | | **3VL4860-3PH30-□□□□** | | 1 | 1 unit | 1CC | 5.900 |
| | **3VL6160-2PH30-□□□□** | | 1 | 1 unit | 1CC | 16.000 | | **3VL6160-3PH30-□□□□** | | 1 | 1 unit | 1CC | 16.000 |
| | **3VL6180-2PH30-□□□□** | | 1 | 1 unit | 1CC | 16.000 | | **3VL6180-3PH30-□□□□** | | 1 | 1 unit | 1CC | 16.000 |
| | **3VL7180-2PH30-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7180-3PH30-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL7110-2PH30-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7110-3PH30-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL7112-2PH30-□□□□** | | 1 | 1 unit | 1CC | 25.000 | | **3VL7112-3PH30-□□□□** | | 1 | 1 unit | 1CC | 25.000 |
| | **3VL8112-2PH30-□□□□** | | 1 | 1 unit | 1CC | 31.300 | | **3VL8112-3PH30-□□□□** | | 1 | 1 unit | 1CC | 31.300 |
| | **3VL8116-2PH30-□□□□** | | 1 | 1 unit | 1CC | 31.300 | | **3VL8116-3PH30-□□□□** | | 1 | 1 unit | 1CC | 31.300 |

*** You can order this quantity or a multiple thereof.**

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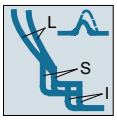
# Molded Case Circuit Breakers

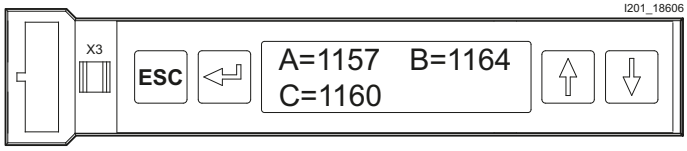
## 3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### 3-pole

| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | DT | **Standard breaking capacity N, up to 35 kA at 480 V** see "Overview". (N) Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | | | | | | | kg |

**Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) to VL1600 UL (PG frame), up to 1600 A, Electronic Trip Units (UL file: E10848, CCN[1]: DIVQ)**




***Molded case circuit breakers with Electronic Trip Unit with LCD, line protection with LI/LS/LSI function***

- Connection type:
  Molded case circuit breakers without preassembled connections,
  connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/251 to 2/254 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262.
- $t_{sd}$ = 0 to 0.5 s
- $t_r$/s: 2.5, 4, 6, 8, 10, 14, 17, 20, 25, 30
- $I_{sd}$/A: 1.25 to 10 x $I_r$[2)]
- Pre-alarm % of $I_r$: 80 to 100

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| VL150 UL, | 60 | 30 ... 60 | 75 ... 660 (11 x $I_n$) | **3VL2506-1VH30-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| DG frame | 100 | 40 ... 100 | 125 ... 1100 (11 x $I_n$) | **3VL2510-1VH30-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| | 150 | 60 ... 150 | 187 ... 1650 (11 x $I_n$) | **3VL2515-1VH30-□□□□** | 1 | 1 unit | 1CC | 2.400 |
| VL250 UL, | 100 | 40 ... 100 | 125 ... 1100 (11 x $I_n$) | **3VL3510-1VH30-□□□□** | 1 | 1 unit | 1CC | 2.500 |
| FG frame | 150 | 60 ... 150 | 187 ... 1650 (11 x $I_n$) | **3VL3515-1VH30-□□□□** | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 70 ... 250 | 312 ... 2750 (11 x $I_n$) | **3VL3525-1VH30-□□□□** | 1 | 1 unit | 1CC | 2.500 |
| VL400 UL, | 250 | 70 ... 250 | 312 ... 2750 (11 x $I_n$) | **3VL4125-1VH30-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| JG frame | 400 | 150 ... 400 | 500 ... 4400 (11 x $I_n$) | **3VL4140-1VH30-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| VL400X UL, | 400 | 150 ... 400 | 500 ... 4400 (11 x $I_n$) | **3VL4840-1VH30-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| LG frame | 600 | 200 ... 600 | 750 ... 6000 (10 x $I_n$) | **3VL4860-1VH30-□□□□** | 1 | 1 unit | 1CC | 5.900 |
| VL800 UL, | 600 | 200 ... 600 | 750 ... 6000 (10 x $I_n$) | **3VL6160-1VH30-□□□□** | 1 | 1 unit | 1CC | 16.000 |
| MG frame | 800 | 300 ... 800 | 1000 ... 6000 (7.5 x $I_n$) | **3VL6180-1VH30-□□□□** | 1 | 1 unit | 1CC | 16.000 |
| VL1200 UL, | 800 | 300 ... 800 | 1000 ... 8800 (11 x $I_n$) | **3VL7180-1VH30-□□□□** | 1 | 1 unit | 1CC | 25.000 |
| NG frame | 1000 | 400 ... 1000 | 1250 ... 11000 (11 x $I_n$) | **3VL7110-1VH30-□□□□** | 1 | 1 unit | 1CC | 25.000 |
| | 1200 | 400 ... 1200 | 1500 ... 12000 (10 x $I_n$) | **3VL7112-1VH30-□□□□** | 1 | 1 unit | 1CC | 25.000 |
| VL1600 UL, | 1200 | 400 ... 1200 | 1500 ... 12000 (10 x $I_n$) | **3VL8112-1VH30-□□□□** | 1 | 1 unit | 1CC | 31.300 |
| PG frame[3)] | 1600 | 700 ... 1600 | 2000 ... 9600 (6 x $I_n$) | **3VL8116-1VH30-□□□□** | 1 | 1 unit | 1CC | 31.300 |

L = overload

S = short-circuit protection, short-time delayed

I = short-circuit protection, instantaneous

1) UL Category Code Number.

2) Only for sizes for which $I_i$ (max) = 11 x $I_n$ Here the factor is 11.
Otherwise the following applies:
$I_{sd}$ (max) = (factor-1) x $I_r$ (max). The factor is the value in brackets in the column $I_i$.

3) Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/262).



* You can order this quantity or a multiple thereof.

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| DT | High breaking capacity H, up to 65 kA at 480 V (H) | | | | | | DT | Very high breaking capacity L, up to 100 kA at 480 V (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | 3VL2506-2VH30-□□□□ | | 1 | 1 unit | 1CC | 2.400 | | 3VL2506-3VH30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 3VL2510-2VH30-□□□□ | | 1 | 1 unit | 1CC | 2.400 | | 3VL2510-3VH30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 3VL2515-2VH30-□□□□ | | 1 | 1 unit | 1CC | 2.400 | | 3VL2515-3VH30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 3VL3510-2VH30-□□□□ | | 1 | 1 unit | 1CC | 2.500 | | 3VL3510-3VH30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 3VL3515-2VH30-□□□□ | | 1 | 1 unit | 1CC | 2.500 | | 3VL3515-3VH30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 3VL3525-2VH30-□□□□ | | 1 | 1 unit | 1CC | 2.500 | | 3VL3525-3VH30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 3VL4125-2VH30-□□□□ | | 1 | 1 unit | 1CC | 5.900 | | 3VL4125-3VH30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 3VL4140-2VH30-□□□□ | | 1 | 1 unit | 1CC | 5.900 | | 3VL4140-3VH30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 3VL4840-2VH30-□□□□ | | 1 | 1 unit | 1CC | 5.900 | | 3VL4840-3VH30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 3VL4860-2VH30-□□□□ | | 1 | 1 unit | 1CC | 5.900 | | 3VL4860-3VH30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 3VL6160-2VH30-□□□□ | | 1 | 1 unit | 1CC | 16.000 | | 3VL6160-3VH30-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| | 3VL6180-2VH30-□□□□ | | 1 | 1 unit | 1CC | 16.000 | | 3VL6180-3VH30-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| | 3VL7180-2VH30-□□□□ | | 1 | 1 unit | 1CC | 25.000 | | 3VL7180-3VH30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 3VL7110-2VH30-□□□□ | | 1 | 1 unit | 1CC | 25.000 | | 3VL7110-3VH30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 3VL7112-2VH30-□□□□ | | 1 | 1 unit | 1CC | 25.000 | | 3VL7112-3VH30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 3VL8112-2VH30-□□□□ | | 1 | 1 unit | 1CC | 31.300 | | 3VL8112-3VH30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |
| | 3VL8116-2VH30-□□□□ | | 1 | 1 unit | 1CC | 31.300 | | 3VL8116-3VH30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |

*** You can order this quantity or a multiple thereof.**

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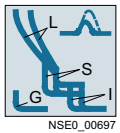
# Molded Case Circuit Breakers

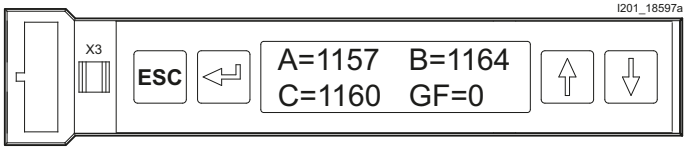
## 3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### 3-pole

| Type | Rated current $I_n$ | Current setting of the inverse-time delayed overload protection "L" $I_r$ | Operating current of the instantaneous short-circuit protection "I" $I_i$ | $I_g$ in % of $I_n$ | DT | Standard breaking capacity N, up to 35 kA at 480 V see "Overview". (N) Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | A | A | | | | | | | | kg |

**Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) to VL1600 UL (PG frame), up to 1600 A, Electronic Trip Units (UL file: E10848, CCN[1]: DIVQ)**




***Molded case circuit breakers with Electronic Trip Unit with LCD, line protection with LSIG function or LSIG (alarm) function***

- Connection type:
  Molded case circuit breakers without preassembled connections,
  connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/251 to 2/254 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/255 to 2/262.
- $t_r$/s: 2.5, 4, 6, 8.10, 14, 17, 20, 25, 30
- $I_{sd}$/A: 1.25 to 10 x $I_r$[2]
- Pre-alarm % of $I_r$: 80 to 100
- $t_g$/s: 0.1; 0.2; 0.3; 0.4; 0.5

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VL150 UL, | 60 | 30 ... 60 | 75 ... 660 (11 x $I_n$) | 40 ... 100 | 3VL2506-1□□30-□□□□ | 1 | 1 unit | 1CC | 2.400 |
| DG frame | 100 | 40 ... 100 | 125 ... 1100 (11 x $I_n$) | 40 ... 100 | 3VL2510-1□□30-□□□□ | 1 | 1 unit | 1CC | 2.400 |
| | 150 | 60 ... 150 | 187 ... 1650 (11 x $I_n$) | 40 ... 100 | 3VL2515-1□□30-□□□□ | 1 | 1 unit | 1CC | 2.400 |
| VL250 UL, | 100 | 40 ... 100 | 125 ... 1100 (11 x $I_n$) | 40 ... 100 | 3VL3510-1□□30-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| FG frame | 150 | 60 ... 150 | 187 ... 1650 (11 x $I_n$) | 40 ... 100 | 3VL3515-1□□30-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| | 250 | 70 ... 250 | 312 ... 2750 (11 x $I_n$) | 40 ... 100 | 3VL3525-1□□30-□□□□ | 1 | 1 unit | 1CC | 2.500 |
| VL400 UL, | 250 | 70 ... 250 | 312 ... 2750 (11 x $I_n$) | 40 ... 100 | 3VL4125-1□□30-□□□□ | 1 | 1 unit | 1CC | 5.900 |
| JG frame | 400 | 150 ... 400 | 500 ... 4400 (11 x $I_n$) | 40 ... 100 | 3VL4140-1□□30-□□□□ | 1 | 1 unit | 1CC | 5.900 |
| VL400X UL, | 400 | 150 ... 400 | 500 ... 4400 (11 x $I_n$) | 40 ... 100 | 3VL4840-1□□30-□□□□ | 1 | 1 unit | 1CC | 5.900 |
| LG frame | 600 | 200 ... 600 | 750 ... 6000 (10 x $I_n$) | 40 ... 100 | 3VL4860-1□□30-□□□□ | 1 | 1 unit | 1CC | 5.900 |
| VL800 UL, | 600 | 200 ... 600 | 750 ... 6000 (10 x $I_n$) | 40 ... 100 | 3VL6160-1□□30-□□□□ | 1 | 1 unit | 1CC | 16.000 |
| MG frame | 800 | 300 ... 800 | 1000 ... 6000 (7.5 x $I_n$) | 40 ... 100 | 3VL6180-1□□30-□□□□ | 1 | 1 unit | 1CC | 16.000 |
| VL1200 UL, | 800 | 300 ... 800 | 1000 ... 8800 (11 x $I_n$) | 40 ... 100 | 3VL7180-1□□30-□□□□ | 1 | 1 unit | 1CC | 25.000 |
| NG frame | 1000 | 400 ... 1000 | 1250 ... 11000 (11 x $I_n$) | 40 ... 100 | 3VL7110-1□□30-□□□□ | 1 | 1 unit | 1CC | 25.000 |
| | 1200 | 400 ... 1200 | 1500 ... 12000 (10 x $I_n$) | 40 ... 100 | 3VL7112-1□□30-□□□□ | 1 | 1 unit | 1CC | 25.000 |
| VL1600 UL, | 1200 | 400 ... 1200 | 1500 ... 12000 (10 x $I_n$) | 40 ... 100 | 3VL8112-1□□30-□□□□ | 1 | 1 unit | 1CC | 31.300 |
| PG frame[3] | 1600 | 700 ... 1600 | 2000 ... 9600 (6 x $I_n$) | 40 ... 75 | 3VL8116-1□□30-□□□□ | 1 | 1 unit | 1CC | 31.300 |

***Electronic Trip Units with LCD, 3-pole version***

| | |
|---|---|
| **Line protection with LSIG function**<br>For 4-wire three-phase systems<br>(vectorial summation current formation)<br>$t_{sd}$ = 0 to 0.5 s, tg = 0 to 0.5 s | **V M** |
| **Line protection with LSIG (alarm) function**<br>For 4-wire three-phase systems<br>(vectorial summation current formation)<br>$t_{sd}$ = 0 to 0.5 s, tg = 0 to 0.5 s | **V J** |

L = overload
S = short-circuit protection, short-time delayed
I = short-circuit protection, instantaneous
G = ground-fault protection

1) UL Category Code Number.
2) Only for sizes for which $I_i$ (max) = 11 x $I_n$ Here the factor is 11. Otherwise the following applies: $I_{sd}$ (max) = (factor-1) x $I_r$ (max). The factor is the value in brackets in the column $I_i$.
3) Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/262).



* You can order this quantity or a multiple thereof.

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| DT | High breaking capacity H, up to 65 kA at 480 V (H) | | | | | | DT | Very high breaking capacity L, up to 100 kA at 480 V (L) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | | Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/236 | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
| | 3VL2506-2□□30-□□□□ | | 1 | 1 unit | 1CC | 2.400 | | 3VL2506-3□□30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 3VL2510-2□□30-□□□□ | | 1 | 1 unit | 1CC | 2.400 | | 3VL2510-3□□30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 3VL2515-2□□30-□□□□ | | 1 | 1 unit | 1CC | 2.400 | | 3VL2515-3□□30-□□□□ | | 1 | 1 unit | 1CC | 2.400 |
| | 3VL3510-2□□30-□□□□ | | 1 | 1 unit | 1CC | 2.500 | | 3VL3510-3□□30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 3VL3515-2□□30-□□□□ | | 1 | 1 unit | 1CC | 2.500 | | 3VL3515-3□□30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 3VL3525-2□□30-□□□□ | | 1 | 1 unit | 1CC | 2.500 | | 3VL3525-3□□30-□□□□ | | 1 | 1 unit | 1CC | 2.500 |
| | 3VL4125-2□□30-□□□□ | | 1 | 1 unit | 1CC | 5.900 | | 3VL4125-3□□30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 3VL4140-2□□30-□□□□ | | 1 | 1 unit | 1CC | 5.900 | | 3VL4140-3□□30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 3VL4840-2□□30-□□□□ | | 1 | 1 unit | 1CC | 5.900 | | 3VL4840-3□□30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 3VL4860-2□□30-□□□□ | | 1 | 1 unit | 1CC | 5.900 | | 3VL4860-3□□30-□□□□ | | 1 | 1 unit | 1CC | 5.900 |
| | 3VL6160-2□□30-□□□□ | | 1 | 1 unit | 1CC | 16.000 | | 3VL6160-3□□30-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| | 3VL6180-2□□30-□□□□ | | 1 | 1 unit | 1CC | 16.000 | | 3VL6180-3□□30-□□□□ | | 1 | 1 unit | 1CC | 16.000 |
| | 3VL7180-2□□30-□□□□ | | 1 | 1 unit | 1CC | 25.000 | | 3VL7180-3□□30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 3VL7110-2□□30-□□□□ | | 1 | 1 unit | 1CC | 25.000 | | 3VL7110-3□□30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 3VL7112-2□□30-□□□□ | | 1 | 1 unit | 1CC | 25.000 | | 3VL7112-3□□30-□□□□ | | 1 | 1 unit | 1CC | 25.000 |
| | 3VL8112-2□□30-□□□□ | | 1 | 1 unit | 1CC | 31.300 | | 3VL8112-3□□30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |
| | 3VL8116-2□□30-□□□□ | | 1 | 1 unit | 1CC | 31.300 | | 3VL8116-3□□30-□□□□ | | 1 | 1 unit | 1CC | 31.300 |
| VM | | | | | | | VM | | | | | | |
| VJ | | | | | | | VJ | | | | | | |

* You can order this quantity or a multiple thereof.

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## Selection and ordering data

**1st Article No. supplement:**
**Undervoltage release or shunt release,**
**wiring directly to accessories**

| Rated control supply voltage $U_S$/frequency | | Article No. supplement | | | Molded case circuit breakers Type | |
|---|---|---|---|---|---|---|
| 50/60 Hz AC<br>DC | | **3VL . . . . - . . . . . - @ @ . .** | | | **VL150X UL (CG frame) to VL400X UL (LG frame)[1]** | **VL800 UL (MG frame) to VL1600 UL (PG frame)** |
| | | | | | Additional price | Additional price |
| **Without auxiliary release** | | | **0** | **A** | None | None |
| **With undervoltage release**<br>Only right pole | | | | | | |
| V AC | V DC | | | | | |
| -- | 12 | | **2** | **N** | ✓[1] | ✓ |
| -- | 24 | | **2** | **P** | ✓[1] | ✓ |
| -- | 48 | | **2** | **U** | ✓[1] | ✓ |
| -- | 60 | | **2** | **V** | ✓[1] | ✓ |
| -- | 110-127 | | **2** | **R** | ✓[1] | ✓ |
| -- | 220-250 | | **2** | **S** | ✓[1] | ✓ |
| 24 | -- | | **2** | **D** [2] | ✓[1] | -- |
| 110-127 | -- | | **2** | **G** | ✓[1] | ✓ |
| 220-250 | -- | | **2** | **H** | ✓[1] | ✓ |
| 208 | -- | | **2** | **M** | ✓[1] | ✓ |
| 277 | -- | | **2** | **Q** | ✓[1] | ✓ |
| 380-415 | -- | | **2** | **J** | ✓[1] | ✓ |
| 440-480 | -- | | **2** | **K** | ✓[1] | ✓ |
| 500-525 | -- | | **2** | **L** [2] | ✓[1] | -- |
| **With shunt release**<br>Only right pole | | | | | | |
| V AC | V DC | | | | | |
| -- | 24 | | **8** | **C** | ✓[1] | ✓ |
| -- | 48-60 | | **8** | **J** | ✓[1] | ✓ |
| -- | 110-127 | | **8** | **K** | ✓[1] | ✓ |
| -- | 220-250 | | **8** | **Q** | ✓[1] | ✓ |
| 48-60 | -- | | **8** | **M** | ✓[1] | ✓ |
| 110-127 | -- | | **8** | **R** | ✓[1] | ✓ |
| 208-277 | -- | | **8** | **T** | ✓[1] | ✓ |
| 380-600 | -- | | **8** | **V** | ✓[1] | ✓ |

**2nd Article No. supplement:**
**Auxiliary switches (HS) and alarm switches (AS),**
**left/right pole,**
**directly wired to accessories**

| Equipment | Article No. supplement | | | Molded case circuit breakers Type | |
|---|---|---|---|---|---|
| HS = 1 NO or 1 NC contact block<br>AS = 1 NO contact block | 3VL . . . . - . . . . . - . . ☐ ☐ | | | **VL150X UL (CG frame) to VL400X UL (LG frame)** | **VL800 UL (MG frame) to VL1600 UL (PG frame)** |
| | | | | Additional price | Additional price |
| Without auxiliary/alarm switches | | **A** | **0** | None | None |
| 2 HS (1 NO/1 NC)[3] | | **B** | **1** | ✓[4] | -- |
| 4 HS (2 NO/2 NC) | | **C** | **1** | -- | ✓ |
| 2 HS (1 NO/1 NC) + 1 AS (1 NO) | | **D** | **1** | ✓[4] | -- |
| 2 HS (1 NO/1 NC) + 1 AS (1 NO)[5] | | **E** | **1** | -- | ✓ |

✓ Additional price

-- Not available

1) Only an undervoltage release or a shunt release or an auxiliary/alarm switch combination is possible for VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with an Electronic Trip Unit.

2) Not for VL800 UL (MG frame), VL1200 UL (NG frame) and VL1600 UL (PG frame) molded case circuit breakers.

3) Up to 3 HS are possible with a mounting adapter.

4) Except for installation in the left accessory compartment of the VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with Electronic Trip Unit because this compartment is fitted with the tripping solenoid. Only an auxiliary release or an auxiliary/alarm switch combination can be installed on the right.

5) Up to 2 HS + 2 AS are possible with a mounting adapter.

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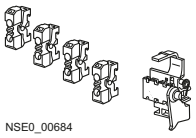
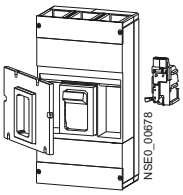
| When ordering, add **"-Z"** to the complete Article No. and add the relevant order code(s). | | Article No. with **"–Z"**<br>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16<br>3VL . . . . – . . . . . – . . . . –Z<br>and additional order code(s)<br>□ □ □ + . . . + . . .<br>Code for further versions –Z | Additional price |
|---|---|---|---|
| **For fixed-mounted molded case circuit breakers (wired in factory)** | | | |
| **Wiring for internal accessories** (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply) with connecting cables (3 m long) brought out at the rear | VL150X UL (CG frame) to VL1600 UL (PG frame) | **L 0 2** | ✓ |
| **Wiring for motorized operating mechanisms** (Motorized operating mechanism not included in scope of supply, for selection and ordering data, see pages 2/242 to 2/250) with connecting cables (3 m long) or brought out at the top in the case of VL150X UL (CG frame) to VL400X UL (LG frame) or brought out at the right in the case of VL800 UL (MG frame) to VL1600 UL (PG frame) | VL150X UL (CG frame) to VL1600 UL (PG frame) | **L 1 2** | ✓ |
| **Motorized operating mechanism (24 V DC)** Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply) **with wiring for internal accessories** of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply) | VL150X UL (CG frame) to VL250 UL (FG frame) | **M 2 4** | ✓ |
| | VL400 UL (JG frame) to VL400X UL (LG frame) | | ✓ |
| | VL800 UL (MG frame) | | ✓ |
| | VL1200 UL (NG frame) to VL1600 UL (PG frame) | | ✓ |
| **Motorized operating mechanism (42-48 V AC/DC)** Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply) **with wiring for internal accessories** of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply) | VL150X UL (CG frame) to VL250 UL (FG frame) | **M 4 2** | ✓ |
| | VL400 UL (JG frame) to VL400X UL (LG frame) | | ✓ |
| | VL800 UL (MG frame) | | ✓ |
| | VL1200 UL (NG frame) to VL1600 UL (PG frame) | | ✓ |
| **Motorized operating mechanisms (60 V AC/DC)** Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply) **with wiring for internal accessories** of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply) | VL150X UL (CG frame) to VL250 UL (FG frame) | **M 6 0** | ✓ |
| | VL400 UL (JG frame) to VL400X UL (LG frame) | | ✓ |
| | VL800 UL (MG frame) | | ✓ |
| | VL1200 UL (NG frame) to VL1600 UL (PG frame) | | ✓ |
| **Motorized operating mechanism (110-127 V AC/DC)** Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply) **with wiring for internal accessories** of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply) | VL150X UL (CG frame) to VL250 UL (FG frame) | **M 1 1** | ✓ |
| | VL400 UL (JG frame) to VL400X UL (LG frame) | | ✓ |
| | VL800 UL (MG frame) | | ✓ |
| | VL1200 UL (NG frame) to VL1600 UL (PG frame) | | ✓ |
| **Motorized operating mechanism (220-250 V AC/DC)** Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply) **with wiring for internal accessories** of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply) | VL150X UL (CG frame) to VL250 UL (FG frame) | **M 2 2** | ✓ |
| | VL400 UL (JG frame) to VL400X UL (LG frame) | | ✓ |
| | VL800 UL (MG frame) | | ✓ |
| | VL1200 UL (NG frame) to VL1600 UL (PG frame) | | ✓ |

✓ Additional price

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## Selection and ordering data

| | Wiring directly to accessories | DT | For VL150X UL (CG frame) to VL400X UL (LG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Auxiliary switches and auxiliary releases (UL file: E69455)** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
|  NSE0_00684 3VL9400-2A.01 | **Auxiliary switches (HS) and alarm switches (AS)** For retrofitting | | | | | | | |
| | Assembly kits / Mounting side | | | | | | | |
| | 2 HS (1 NO + 1 NC) / N, left[1], right | | 3VL9400-2AB01 | | 1 | 1 unit | 1CC | 0.054 |
| | 4 HS (2 NO + 2 NC) / N, left, right | | -- | | | | | |
| | 2 HS (1 NC + 1 NO) / Left, right[2] | | 3VL9400-2AD01 | | 1 | 1 unit | 1CC | 0.081 |
| | + 1 AS (1 NO) (assembly kit) / Left | | -- | | | | | |
| | Additional auxiliary switch/alarm switch combinations | | See page 2/240. | | | | | |
|  NSE0_00678 3VL9400-1S.01, 3VL9400 1U.01 | **Shunt releases** For retrofitting | | | | | | | |
| | V AC / V DC / Mounting side | | | | | | | |
| | -- / 24 / Right pole only | | 3VL9400-1SC01 | | 1 | 1 unit | 1CC | 0.101 |
| | -- / 48 ... 60 / Right pole only | | 3VL9400-1SJ01 | | 1 | 1 unit | 1CC | 0.103 |
| | -- / 110 ... 127 / Right pole only | | 3VL9400-1SK01 | | 1 | 1 unit | 1CC | 0.101 |
| | -- / 220 ... 250 / Right pole only | | 3VL9400-1SQ01 | | 1 | 1 unit | 1CC | 0.099 |
| | 48 ... 60 / -- / Right pole only | | 3VL9400-1SM01 | | 1 | 1 unit | 1CC | 0.103 |
| | 110 ... 127 / -- / Right pole only | | 3VL9400-1SR01 | | 1 | 1 unit | 1CC | 0.100 |
| | 208 ... 277 / -- / Right pole only | | 3VL9400-1ST01 | | 1 | 1 unit | 1CC | 0.102 |
| | 380 ... 600 / -- / Right pole only | | 3VL9400-1SV01 | | 1 | 1 unit | 1CC | 0.110 |
| | **Undervoltage releases** For retrofitting | | | | | | | |
| | V AC / V DC / Mounting side | | | | | | | |
| | -- / 12 / Right pole only | | 3VL9400-1UN01 | | 1 | 1 unit | 1CC | 0.092 |
| | -- / 24 / Right pole only | | 3VL9400-1UP01 | | 1 | 1 unit | 1CC | 0.096 |
| | -- / 48 / Right pole only | | 3VL9400-1UU01 | | 1 | 1 unit | 1CC | 0.097 |
| | -- / 60 / Right pole only | | 3VL9400-1UV01 | | 1 | 1 unit | 1CC | 0.098 |
| | 24 / -- / Right pole only | | 3VL9400-1UD01 | | 1 | 1 unit | 1CC | 0.100 |
| | 110 ... 127 / -- / Right pole only | | 3VL9400-1UG01 | | 1 | 1 unit | 1CC | 0.099 |
| | -- / 110 ... 127 / Right pole only | | 3VL9400-1UR01 | | 1 | 1 unit | 1CC | 0.099 |
| | 208 / -- / Right pole only | | 3VL9400-1UM01 | | 1 | 1 unit | 1CC | 0.101 |
| | 220 ... 250 / -- / Right pole only | | 3VL9400-1UH01 | | 1 | 1 unit | 1CC | 0.099 |
| | -- / 220 ... 250 / Right pole only | | 3VL9400-1US01 | | 1 | 1 unit | 1CC | 0.092 |
| | 277 / -- / Right pole only | | 3VL9400-1UQ01 | | 1 | 1 unit | 1CC | 0.094 |
| | 380 ... 415 / -- / Right pole only | | 3VL9400-1UJ01 | | 1 | 1 unit | 1CC | 0.096 |
| | 440 ... 480 / -- / Right pole only | | 3VL9400-1UK01 | | 1 | 1 unit | 1CC | 0.099 |
| | 500 ... 525 / -- / Right pole only | | 3VL9400-1UL01 | | 1 | 1 unit | 1CC | 0.100 |

[1] Except for installation in the left accessory compartment of the VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with Electronic Trip Unit because this compartment is fitted with the tripping solenoid.

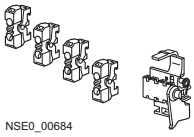
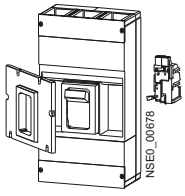
[2] In the case of VL400 UL (JG frame)/VL400X UL (LG frame): Unsuitable for mounting in the right-hand accessory compartment. The 3VL9400-2AB01 assembly kit with auxiliary switches only is recommended.



* You can order this quantity or a multiple thereof.

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| | Wiring directly to accessories | DT | For VL800 UL (MG frame) to VL1600 UL (PG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Auxiliary switches and auxiliary releases (UL file: E69455)** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
|  NSE0_00684 3VL9800-2A.01 | **Auxiliary switches (HS) and alarm switches (AS)** For retrofitting | | | | | | | |
| | Assembly kits: 2 HS (1 NO + 1 NC); Mounting side: N, left, right | | -- | | | | | |
| | Assembly kits: 4 HS (2 NO + 2 NC); Mounting side: N, left, right | | 3VL9800-2AC01 | | 1 | 1 unit | 1CC | 0.086 |
| | Assembly kits: 2 HS (1 NC + 1 NO); Mounting side: Left, right | | -- | | | | | |
| | Assembly kits: + 1 AS (1 NO) (assembly kit); Mounting side: Left | | 3VL9800-2AE01 | | 1 | 1 unit | 1CC | 0.082 |
| | Additional auxiliary switch/alarm switch combinations | | see page 2/240. | | | | | |
|  NSE0_00678 3VL9800-1S.01, 3VL9800-1U.01 | **Shunt releases** For retrofitting | | | | | | | |
| | V AC: --; V DC: 24; Mounting side: Right pole only | | 3VL9800-1SC01 | | 1 | 1 unit | 1CC | 0.151 |
| | V AC: --; V DC: 48 ... 60; Mounting side: Right pole only | | 3VL9800-1SJ01 | | 1 | 1 unit | 1CC | 0.150 |
| | V AC: --; V DC: 110 ... 127; Mounting side: Right pole only | | 3VL9800-1SK01 | | 1 | 1 unit | 1CC | 0.152 |
| | V AC: --; V DC: 220 ... 250; Mounting side: Right pole only | | 3VL9800-1SQ01 | | 1 | 1 unit | 1CC | 0.150 |
| | V AC: 48 ... 60; V DC: --; Mounting side: Right pole only | | 3VL9800-1SM01 | | 1 | 1 unit | 1CC | 0.144 |
| | V AC: 110 ... 127; V DC: --; Mounting side: Right pole only | | 3VL9800-1SR01 | | 1 | 1 unit | 1CC | 0.153 |
| | V AC: 208 ... 277; V DC: --; Mounting side: Right pole only | | 3VL9800-1ST01 | | 1 | 1 unit | 1CC | 0.148 |
| | V AC: 380 ... 600; V DC: --; Mounting side: Right pole only | | 3VL9800-1SV01 | | 1 | 1 unit | 1CC | 0.160 |
| | **Undervoltage releases** For retrofitting | | | | | | | |
| | V AC: --; V DC: 12; Mounting side: Right pole only | | 3VL9800-1UN01 | | 1 | 1 unit | 1CC | 0.116 |
| | V AC: --; V DC: 24; Mounting side: Right pole only | | 3VL9800-1UP01 | | 1 | 1 unit | 1CC | 0.115 |
| | V AC: --; V DC: 48; Mounting side: Right pole only | | 3VL9800-1UU01 | | 1 | 1 unit | 1CC | 0.111 |
| | V AC: --; V DC: 60; Mounting side: Right pole only | | 3VL9800-1UV01 | | 1 | 1 unit | 1CC | 0.115 |
| | V AC: 110 ... 127; V DC: --; Mounting side: Right pole only | | 3VL9800-1UG01 | | 1 | 1 unit | 1CC | 0.111 |
| | V AC: --; V DC: 110 ... 127; Mounting side: Right pole only | | 3VL9800-1UR01 | | 1 | 1 unit | 1CC | 0.112 |
| | V AC: 208; V DC: --; Mounting side: Right pole only | | 3VL9800-1UM01 | | 1 | 1 unit | 1CC | 0.115 |
| | V AC: 220 ... 250; V DC: --; Mounting side: Right pole only | | 3VL9800-1UH01 | | 1 | 1 unit | 1CC | 0.114 |
| | V AC: --; V DC: 220 ... 250; Mounting side: Right pole only | | 3VL9800-1US01 | | 1 | 1 unit | 1CC | 0.112 |
| | V AC: 277; V DC: --; Mounting side: Right pole only | | 3VL9800-1UQ01 | | 1 | 1 unit | 1CC | 0.135 |
| | V AC: 380 ... 415; V DC: --; Mounting side: Right pole only | | 3VL9800-1UJ01 | | 1 | 1 unit | 1CC | 0.131 |
| | V AC: 440 ... 480; V DC: --; Mounting side: Right pole only | | 3VL9800-1UK01 | | 1 | 1 unit | 1CC | 0.137 |
| | V AC: 500 ... 525; V DC: --; Mounting side: Right pole only | | -- | | | | | |

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## Accessories and spare parts

| For molded case circuit breakers | Maximum combination of auxiliary switches (HS) and alarm switches (AS) | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. |
|---|---|---|---|---|---|---|---|---|
| Type | | | | | | | | kg |
| **3SB adapters and 3SB contact blocks** | | | | | | | | |
| ***Mounting adapters for auxiliary and alarm switch combinations (UL file: E69455)*** | | | | | | | | |
| **For installation in the left pole of the molded case circuit breaker** | | | | | | | | |
| VL150X UL (CG frame), VL150 UL (DG frame), VL250 UL (FG frame), VL400 UL (JG frame), VL400X UL (LG frame) | Up to 3 HS[1] | | 3VL9400-2AH01 | | 1 | 1 unit | 1CC | 0.037 |
| | 2 HS + 1 AS[1) 2)] | | 3VL9400-2AJ11 | | 1 | 1 unit | 1CC | 0.037 |
| VL800 UL (MG frame), VL1200 UL (NG frame), VL1600 UL (PG frame) | Up to 4 HS | | 3VL9816-2AL01 | | 1 | 1 unit | 1CC | 0.050 |
| | 2 HS + 2 AS | | 3VL9816-2AN11 | | 1 | 1 unit | 1CC | 0.060 |
| **For installation in the right pole of the molded case circuit breaker** | | | | | | | | |
| VL150X UL (CG frame), VL150 UL (DG frame), VL250 UL (FG frame), VL400 UL (JG frame), VL400X UL (LG frame)[2)] | Up to 3 HS[1] | | 3VL9400-2AH01 | | 1 | 1 unit | 1CC | 0.037 |
| | 2 HS + 1 AS[1)2)] | | 3VL9400-2AJ21 | | 1 | 1 unit | 1CC | 0.033 |
| VL800 UL (MG frame), VL1200 UL (NG frame), VL1600 UL (PG frame) | Up to 4 HS | | 3VL9816-2AL01 | | 1 | 1 unit | 1CC | 0.050 |
| | 2 HS + 2 AS | | -- | | | | | |

1) Except for installation in the left pole for VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with Electronic Trip Unit. Only an auxiliary release or an auxiliary/alarm switch combination can be installed on the right.

2) In the case of VL400 UL (JG frame)/VL400X UL (LG frame): 3VL9400-2AJ21 unsuitable for mounting in the right-hand accessory compartment.



* You can order this quantity or a multiple thereof.

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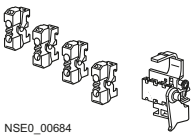
| For auxiliary switches (HS) and alarm switches (AS) | DT | Molded case circuit breakers Type **VL150X UL (CG frame) to VL1600 UL (PG frame)** Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|
| **Contact blocks for auxiliary switch (HS) and alarm switch (AS) combinations** | | | | | | | |
| 1 NO | | **3SB3400-0J** | | 1 | 1 unit | 41J | 0.009 |
| 1 NC | | **3SB3400-0K** | | 1 | 1 unit | 41J | 0.009 |

For auxiliary switch or alarm switch combinations not included in the kits provided as standard, the mounting adapters specified can be ordered separately together with the required contact blocks:
1 HS or 1 AS with NO contact 3SB3400-0J
1 HS or 1 AS with NC contact 3SB3400-0K

Notes:

A maximum of 6 contact blocks (HS) per molded case circuit breaker (VL150X UL (CG frame) to VL400X UL (LG frame)) and a maximum of 8 contact blocks (HS) per molded case circuit breaker (VL800 UL (MG frame) to VL1600 UL (PG frame)) are possible.

Four 3SB3 auxiliary contact blocks and one mounting adapter (right), suitable for VL800 UL (MG frame) to VL1600 UL (PG frame) molded case circuit breakers.



NSE0_00684

For retrofitting/equipment options, see chapter "Design", "Auxiliary releases and auxiliary switches".

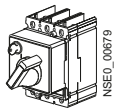
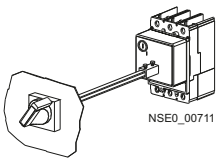
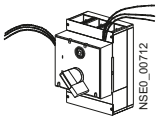
*** You can order this quantity or a multiple thereof.**

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## Accessories and spare parts

| | Version | DT | For VL150X UL (CG frame) to VL250 UL (FG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Operating mechanisms** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
|  3VL9.00-3H.01 | **Front-operated rotary operating mechanisms (UL file: E69455)** For direct mounting on the molded case circuit breaker, without leading auxiliary switch, degree of protection IP30[1], black | | 3VL9300-3HA01 | | 1 | 1 unit | 1CC | 0.490 |
| | EMERGENCY-STOP version Red knob, yellow indicator plate | | 3VL9300-3HC01 | | 1 | 1 unit | 1CC | 0.470 |
| | Safety locks for installation by the customer, see pages 2/263 to 2/267. | | | | | | | |
|  3VL9.00-3H.06 | **Door-coupling rotary operating mechanisms, complete; installation in doors and covers (UL file: E69455)** NEMA 1, 12 Degree of protection IP65, including black knob with masking plate, indicator plate, removable door coupling, extension shaft 300 mm and front-operated rotary operating mechanism for the respective molded case circuit breaker | | 3VL9300-3HF06 | | 1 | 1 unit | 1CC | 0.870 |
| | EMERGENCY-STOP version Red knob, yellow indicator plate, without leading auxiliary switch | | 3VL9300-3HG06 | | 1 | 1 unit | 1CC | 0.828 |
| | Safety locks for installation by the customer, see pages 2/263 to 2/267. | | | | | | | |
| | **Interlocking module UL 508A[2]** For use with 3VL1, 3VL2, 3VL3, 3VL4, 3VL4X and 3RV19.6-2 | | 8UC9400 | | 1 | 1 unit | 1CL | 1.780 |
|  3VL9.00-3A.11 | **Leading auxiliary switches for installation in a front-operated rotary operating mechanism or door-coupling rotary operating mechanism (UL file: E69455)** Standard or EMERGENCY-STOP version | | | | | | | |
| | "OFF after ON" Leading auxiliary switches when switching on | | 3VL9300-3AS11 | | 1 | 1 unit | 1CC | 0.098 |
| | 1 changeover contact with 1.5 m long cables | | | | | | | |
| | 2 changeover contacts with 1.5 m long cables | | 3VL9300-3AT11 | | 1 | 1 unit | 1CC | 0.170 |
| | "ON after OFF" Leading auxiliary switches when switching off 1 changeover contact with 1.5 m long cables | | 3VL9300-3AU11 | | 1 | 1 unit | 1CC | 0.113 |
| | 2 changeover contacts with 1.5 m long cables | | 3VL9300-3AW11 | | 1 | 1 unit | 1CC | 0.173 |
| | **Rotary operating mechanisms with shaft stub, without knob** Without leading auxiliary switch, for auxiliary switches, see above. | | 3VL9300-3HE01 | | 1 | 1 unit | 1CC | 0.445 |

1) IP40 with additional masking frame mounted on the door cutout.

2) In combination with 3VL1 to VL5, the interlocking module can be used with the complete door-coupling rotary operating mechanisms as follows:

| | 3VL1/3VL2/3VL3 | 3VL4/3VL4X |
|---|---|---|
| Door-coupling rotary operating mechanisms, complete | | |
| • Black knob, light-gray indicator plate | 3VL9300-3HF06 | 3VL9400-3HF06 |
| • Red knob, yellow indicator plate | 3VL9300-3HG06 | 3VL9400-3HG06 |



* You can order this quantity or a multiple thereof.

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| DT | For VL400 UL (JG frame) to VL400X UL (LG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL800 UL (MG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9400-3HA01 | | 1 | 1 unit | 1CC | 1.180 | | 3VL9600-3HA01 | | 1 | 1 unit | 1CC | 1.340 |
| | 3VL9400-3HC01 | | 1 | 1 unit | 1CC | 1.129 | | 3VL9600-3HC01 | | 1 | 1 unit | 1CC | 1.376 |
| | 3VL9400-3HF06 | | 1 | 1 unit | 1CC | 1.650 | | 3VL9600-3HF06 | | 1 | 1 unit | 1CC | 1.700 |
| | 3VL9400-3HG06 | | 1 | 1 unit | 1CC | 1.597 | | 3VL9600-3HG06 | | 1 | 1 unit | 1CC | 1.800 |
| | 8UC9400 | | 1 | 1 unit | 1CL | 1.780 | | -- | | | | | |
| | 3VL9400-3AS11 | | 1 | 1 unit | 1CC | 0.088 | | 3VL9600-3AS11 | | 1 | 1 unit | 1CC | 0.091 |
| | 3VL9400-3AT11 | | 1 | 1 unit | 1CC | 0.180 | | 3VL9600-3AT11 | | 1 | 1 unit | 1CC | 0.142 |
| | 3VL9400-3AU11 | | 1 | 1 unit | 1CC | 0.100 | | 3VL9600-3AU11 | | 1 | 1 unit | 1CC | 0.090 |
| | 3VL9400-3AW11 | | 1 | 1 unit | 1CC | 0.160 | | 3VL9600-3AW11 | | 1 | 1 unit | 1CC | 0.140 |
| | 3VL9400-3HE01 | | 1 | 1 unit | 1CC | 1.100 | | 3VL9600-3HE01 | | 1 | 1 unit | 1CC | 1.282 |

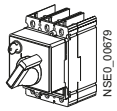
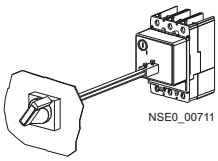
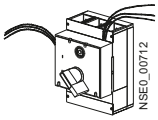
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## Accessories and spare parts



| | Version | DT | For VL1200 UL (NG frame) to VL1600 UL (PG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Operating mechanisms** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
|  3VL9.00-3H.01 | **Front-operated rotary operating mechanisms (UL file: E69455)** For direct mounting on the molded case circuit breaker, without leading auxiliary switch, degree of protection IP30[1], black | | 3VL9800-3HA01 | | 1 | 1 unit | 1CC | 3.550 |
| | EMERGENCY-STOP version Red knob, yellow indicator plate | | 3VL9800-3HC01 | | 1 | 1 unit | 1CC | 3.145 |
| | Safety locks for installation by the customer, see pages 2/263 to 2/267. | | | | | | | |
|  3VL9.00-3H.06 | **Door-coupling rotary operating mechanisms, complete; installation in doors and covers (UL file: E69455)** Degree of protection IP65, including black knob with masking plate, indicator plate, removable door coupling, extension shaft 300 mm and front-operated rotary operating mechanism for the respective molded case circuit breaker | | 3VL9800-3HF06 | | 1 | 1 unit | 1CC | 4.538 |
| | EMERGENCY-STOP version Red knob, yellow indicator plate, without leading auxiliary switch | | 3VL9800-3HG06 | | 1 | 1 unit | 1CC | 4.445 |
| | Safety locks for installation by the customer, see pages 2/263 to 2/267. | | | | | | | |
|  3VL9.00-3A.11 | **Leading auxiliary switches for installation in a front-operated rotary operating mechanism or door-coupling rotary operating mechanism (UL file: E69455)** Standard or EMERGENCY-STOP version | | | | | | | |
| | "OFF after ON" Leading auxiliary switches when switching on | | | | | | | |
| | 1 changeover contact with 1.5 m long cables | | 3VL9800-3AS21 | | 1 | 1 unit | 1CC | 0.160 |
| | 2 changeover contacts with 1.5 m long cables | | 3VL9800-3AT21 | | 1 | 1 unit | 1CC | 0.178 |
| | "ON after OFF" Leading auxiliary switches when switching off | | 3VL9800-3AU11 | | 1 | 1 unit | 1CC | 0.089 |
| | 1 changeover contact with 1.5 m long cables | | 3VL9800-3AW11 | | 1 | 1 unit | 1CC | 0.140 |
| | 2 changeover contacts with 1.5 m long cables | | | | | | | |
| | **Rotary operating mechanisms with shaft stub, without knob** Without leading auxiliary switch, for auxiliary switches, see above. | | 3VL9800-3HE01 | | 1 | 1 unit | 1CC | 2.421 |

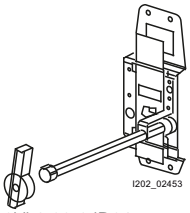
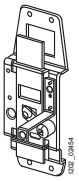
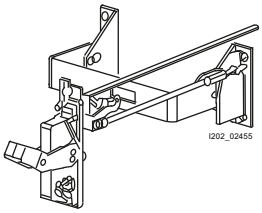
1) IP40 with additional masking frame mounted on the door cutout.



* You can order this quantity or a multiple thereof.

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| | Version | DT | For VL150 UL (DG frame) to VL250 UL (FG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Operating mechanisms** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
|  3VL9.00-3JA01 | **Front-operated rotary operating mechanisms** Fixed depth; knob is fastened directly on molded case circuit breaker, silver knob, black lettering Lockable with up to 3 padlocks | | 3VL9300-3JA01 | | 1 | 1 unit | 1CC | 0.980 |
|  3VL9.00-3JD01 | **Door-coupling rotary operating mechanisms, complete** Variable installation depth, knob for door fitting, including knob with masking plate Black knob Indicator plate, removable door coupling 12-inch extension shaft and front-operated rotary operating mechanism for the respective molded case circuit breaker Lockable knob (up to 3 padlocks), NEMA 1, 12 | | 3VL9300-3JD01 | | 1 | 1 unit | 1CC | 0.854 |
|  3VL9.00-3JE01 | **Switching mechanism for door-coupling rotary operating mechanisms** Switching mechanism | | 3VL9300-3JE01 | | 1 | 1 unit | 1CC | 0.376 |
| | **Handle for door-coupling rotary operating mechanisms** | | | | | | | |
| | **Standard version** NEMA 1, 12 | | 3VL9600-3JF11 | | 1 | 1 unit | 1CC | 0.100 |
| | NEMA 3R | | 3VL9600-3JF01 | | 1 | 1 unit | 1CC | 0.100 |
| | NEMA 4X | | 3VL9600-3JF41 | | 1 | 1 unit | 1CC | 0.100 |
| | **EMERGENCY-STOP version** NEMA 1, 12 • red knob • yellow indicator plate | | 3VL9600-3JG01 | | 1 | 1 unit | 1CC | 1.421 |
| | **Extension shaft for door-coupling rotary operating mechanisms** | | | | | | | |
| | 2 inch (50 mm) | | 3VL9600-3JJ01 | | 1 | 1 unit | 1CC | 0.100 |
| | 3 inch (76 mm) | | -- | | | | | |
| | 12 inch (0.3 m) | | 3VL9600-3JJ11 | | 1 | 1 unit | 1CC | 0.100 |
| | 16 inch (0.4 m) | | 3VL9600-3JJ21 | | 1 | 1 unit | 1CC | 0.100 |
| | 24 inch (0.6 m) with support bracket | | 3VL9600-3JJ41 | | 1 | 1 unit | 1CC | 0.676 |
|  3VL9300-3JF81 | **NFPA-79 intermediate operating mechanism** For door-coupling rotary operating mechanisms | | 3VL9300-3JF81 | | 1 | 1 unit | 1CC | 0.260 |
|  3VL9300-3JS01 | **Operating mechanism with flange connection for variable installation depth** Adjustable from 8 to 16 inch (approx. 200 to 400 mm) Complete kit, including knob Red/black knob[1)] | | | | | | | |
| | NEMA 1, 3R, 12 plastic | | 3VL9300-3JS01 | | 1 | 1 unit | 1CC | 1.717 |
| | NEMA 4, 4X chrome-plated steel | | 3VL9300-3JS41 | | 1 | 1 unit | 1CC | 0.010 |
| | Black knob[1)] | | | | | | | |
| | NEMA 1, 3R, 12 plastic | | 3VL9300-3JS11 | | 1 | 1 unit | 1CC | 0.010 |
| | NEMA 4, 4X chrome-plated steel | | 3VL9300-3JS51 | | 1 | 1 unit | 1CC | 2.417 |

[1)] The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.

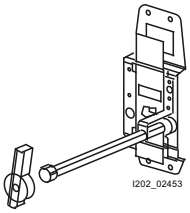
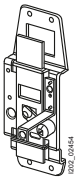
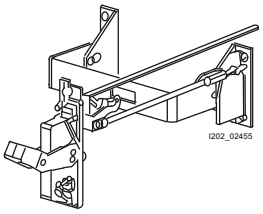
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## Accessories and spare parts



| | Version | DT | For VL400 UL (JG frame) to VL400X UL (LG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Operating mechanisms** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
|  3VL9.00-3JA01 | **Front-operated rotary operating mechanisms** | | | | | | | |
| | Fixed depth; knob is fastened directly on molded case circuit breaker, silver knob, black lettering Lockable with up to 3 padlocks | | 3VL9400-3JA01 | | 1 | 1 unit | 1CC | 0.100 |
|  3VL9.00-3JD01 | **Door-coupling rotary operating mechanisms, complete** | | | | | | | |
| | Variable installation depth, knob for door fitting, including knob with masking plate Black knob Indicator plate, removable door coupling 12-inch extension shaft and front-operated rotary operating mechanism for the respective molded case circuit breaker Lockable knob (up to 3 padlocks) NEMA 1, 12 | | 3VL9400-3JD01 | | 1 | 1 unit | 1CC | 0.100 |
|  3VL9800-3JE01 | **Switching mechanism for door-coupling rotary operating mechanisms** | | | | | | | |
| | Switching mechanism | | 3VL9400-3JE01 | | 1 | 1 unit | 1CC | 0.100 |
| | **Handle for door-coupling rotary operating mechanisms** | | | | | | | |
| | **Standard version** | NEMA 1, 12 | 3VL9600-3JF11 | | 1 | 1 unit | 1CC | 0.100 |
| | | NEMA 3R | 3VL9600-3JF01 | | 1 | 1 unit | 1CC | 0.100 |
| | | NEMA 4X | 3VL9600-3JF41 | | 1 | 1 unit | 1CC | 0.100 |
| | **EMERGENCY-STOP version** • red knob • yellow indicator plate | NEMA 1, 12 | 3VL9600-3JG01 | | 1 | 1 unit | 1CC | 1.421 |
| | **Extension shaft for door-coupling rotary operating mechanisms** | | | | | | | |
| | 2 inch (50 mm) | | 3VL9600-3JJ01 | | 1 | 1 unit | 1CC | 0.100 |
| | 3 inch (76 mm) | | -- | | | | | |
| | 12 inch (0.3 m) | | 3VL9600-3JJ11 | | 1 | 1 unit | 1CC | 0.100 |
| | 16 inch (0.4 m) | | 3VL9600-3JJ21 | | 1 | 1 unit | 1CC | 0.100 |
| | 24 inch (0.6 m) with support bracket | | 3VL9600-3JJ41 | | 1 | 1 unit | 1CC | 0.676 |
|  3VL9800-3JF81 | **NFPA-79 intermediate operating mechanism** | | | | | | | |
| | For door-coupling rotary operating mechanisms | | 3VL9600-3JF81 | | 1 | 1 unit | 1CC | 0.010 |
|  3VL9400-3JS01 | **Operating mechanism with flange connection for variable installation depth** | | | | | | | |
| | Adjustable from 8 to 16 inch (approx. 200 to 400 mm) | | | | | | | |
| | Complete kit, including knob | | | | | | | |
| | Red/black knob[1] | | | | | | | |
| | NEMA 1, 3R, 12 plastic | | 3VL9400-3JS01 | | 1 | 1 unit | 1CC | 0.010 |
| | NEMA 4, 4X chrome-plated steel | | 3VL9400-3JS41 | | 1 | 1 unit | 1CC | 0.010 |
| | Black knob[1] | | | | | | | |
| | NEMA 1, 3R, 12 plastic | | 3VL9400-3JS11 | | 1 | 1 unit | 1CC | 0.010 |
| | NEMA 4, 4X chrome-plated steel | | 3VL9400-3JS51 | | 1 | 1 unit | 1CC | 2.353 |

[1] The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.



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| DT | For VL800 UL (MG frame)<br>Article No.<br>www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL1200 UL (NG frame) to VL1600 UL (PG frame)<br>Article No.<br>www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | -- | | | | | | | -- | | | | | |
| | 3VL9600-3JD01 | | 1 | 1 unit | 1CC | 0.100 | | -- | | | | | |
| | 3VL9600-3JE01 | | 1 | 1 unit | 1CC | 0.100 | | 3VL9800-3JE01 | | 1 | 1 unit | 1CC | 0.100 |
| | 3VL9600-3JF11 | | 1 | 1 unit | 1CC | 0.100 | | 3VL9800-3JF01 | | 1 | 1 unit | 1CC | 0.100 |
| | 3VL9600-3JF01 | | 1 | 1 unit | 1CC | 0.100 | | 3VL9800-3JF01 | | 1 | 1 unit | 1CC | 0.100 |
| | 3VL9600-3JF41 | | 1 | 1 unit | 1CC | 0.100 | | 3VL9800-3JF41 | | 1 | 1 unit | 1CC | 0.100 |
| | 3VL9600-3JG01 | | 1 | 1 unit | 1CC | 1.421 | | -- | | | | | |
| | 3VL9600-3JJ01 | | 1 | 1 unit | 1CC | 0.100 | | -- | | | | | |
| | -- | | | | | | | 3VL9800-3JJ01 | | 1 | 1 unit | 1CC | 0.100 |
| | 3VL9600-3JJ11 | | 1 | 1 unit | 1CC | 0.100 | | 3VL9800-3JJ11 | | 1 | 1 unit | 1CC | 0.100 |
| | 3VL9600-3JJ21 | | 1 | 1 unit | 1CC | 0.100 | | -- | | | | | |
| | 3VL9600-3JJ41 | | 1 | 1 unit | 1CC | 0.676 | | 3VL9800-3JJ21 | | 1 | 1 unit | 1CC | 0.100 |
| | 3VL9600-3JF81 | | 1 | 1 unit | 1CC | 0.010 | | 3VL9800-3JF81 | | 1 | 1 unit | 1CC | 0.010 |
| | -- | | | | | | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |

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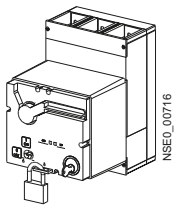
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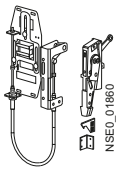


## Accessories and spare parts

| Version | DT | For VL150X UL (CG frame) to VL250 UL (FG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|
| **Operating mechanisms** | | | | | | | |
| ***3-pole*** | | | | | | | |
| **Motorized operating mechanism with spring energy store[1]) (UL file: E69455)** Degree of protection IP30, with locking device for 3 padlocks, synchronizable | | | | | | | |
| 50/60 Hz V AC / V DC | | | | | | | |
| -- / 24 | | 3VL9300-3MJ01 | | 1 | 1 unit | 1CC | 2.797 |
| 42 ... 48 / 42 ... 48 | | 3VL9300-3ML01 | | 1 | 1 unit | 1CC | 2.810 |
| 60 / 60 | | 3VL9300-3MS01 | | 1 | 1 unit | 1CC | 2.140 |
| 110 ... 127 / 110 ... 127 | | 3VL9300-3MN01 | | 1 | 1 unit | 1CC | 2.777 |
| 220 ... 250 / 220 ... 250 | | 3VL9300-3MQ01 | | 1 | 1 unit | 1CC | 2.735 |
| **Toggle lever extension** | | -- | | | | | |
| **Max Flex operating mechanism, complete including switching mechanism, Bowden wire, red/black knob, NEMA 1, 3R, 12 plastic** | | | | | | | |
| Bowden wire, 36 inch (0.9 m) | | 3VL9300-3JM01 | | 1 | 1 unit | 1CC | 0.800 |
| Bowden wire, 48 inch (1.2 m) | | -- | | | | | |
| **Knob for Max Flex operating mechanism** | | | | | | | |
| Red/black knob[2]) | | | | | | | |
| NEMA 1, 3R, 12 plastic | | 3VL9600-3JP01 | | 1 | 1 unit | 1CC | 0.813 |
| NEMA 1, 3R, 12 steel – epoxy sheathed | | 3VL9600-3JP21 | | 1 | 1 unit | 1CC | 0.811 |
| NEMA 4, 4X chrome-plated steel | | 3VL9600-3JP41 | | 1 | 1 unit | 1CC | 1.580 |
| Gray knob[2]) | | | | | | | |
| NEMA 1, 3R, 12 plastic | | 3VL9600-3JP11 | | 1 | 1 unit | 1CC | 0.100 |
| Black knob[2]) | | | | | | | |
| NEMA 1, 3R, 12 steel – epoxy sheathed | | 3VL9600-3JP61 | | 1 | 1 unit | 1CC | 1.559 |
| **Switching mechanism for Max Flex operating mechanism** | | 3VL9300-3JN01 | | 1 | 1 unit | 1CC | 4.536 |
| **Bowden wire for Max Flex operating mechanism** | | | | | | | |
| 36 inch (0.9 m) | | 3VL9300-3JQ31 | | 1 | 1 unit | 1CC | 0.335 |
| 48 inch (1.2 m) | | 3VL9300-3JQ41 | | 1 | 1 unit | 1CC | 0.383 |
| 60 inch (1.5 m) | | 3VL9300-3JQ61 | | 1 | 1 unit | 1CC | 0.475 |
| 72 inch (1.8 m) | | 3VL9300-3JQ71 | | 1 | 1 unit | 1CC | 0.505 |
| 84 inch (2.1 m) | | 3VL9300-3JQ81 | | 1 | 1 unit | 1CC | 0.100 |
| 96 inch (2.4 m) | | 3VL9300-3JQ21 | | 1 | 1 unit | 1CC | 0.584 |
| 120 inch (3.0 m) | | 3VL9300-3JQ01 | | 1 | 1 unit | 1CC | 0.100 |
| 144 inch (3.6 m) | | 3VL9300-3JQ11 | | 1 | 1 unit | 1CC | 0.729 |
| **Screw set** For attaching the Max Flex operating mechanism incl. circuit breaker to an 8US busbar adapter (60 mm busbar system). | | | | | | | |
| • 1 set = 3 screws size M4 x 100 mm | | 3VL9300-8SE20 | | 1 | 1 unit | 1CC | 0.042 |
| • 1 set = 2 screws size M6 x 100 mm and 2 special screws with threaded head | | -- | | | | | |
| **Leading auxiliary switch for Max Flex operating mechanism** | | | | | | | |
| • 1 changeover contact with 1.5 m long cables | | 3VL9300-2AP11 | | 1 | 1 unit | 1CC | 0.090 |
| • 2 changeover contacts with 1.5 m long cables | | 3VL9300-2AP21 | | 1 | 1 unit | 1CC | 0.154 |



3VL9.00-3M.01



3VL9.00-3JM01

[1]) For safety lock as an assembly kit for retrofitting see pages 2/263 to 2/267.

[2]) The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.



* You can order this quantity or a multiple thereof.

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| DT | For VL400 UL (JG frame) to VL400X UL (LG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL800 UL (MG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9400-3MJ01 | | 1 | 1 unit | 1CC | 4.550 | | 3VL9600-3MJ01 | | 1 | 1 unit | 1CC | 5.603 |
| | 3VL9400-3ML01 | | 1 | 1 unit | 1CC | 4.594 | | 3VL9600-3ML01 | | 1 | 1 unit | 1CC | 5.510 |
| | 3VL9400-3MS01 | | 1 | 1 unit | 1CC | 4.561 | | 3VL9600-3MS01 | | 1 | 1 unit | 1CC | 5.680 |
| | 3VL9400-3MN01 | | 1 | 1 unit | 1CC | 4.651 | | 3VL9600-3MN01 | | 1 | 1 unit | 1CC | 5.656 |
| | 3VL9400-3MQ01 | | 1 | 1 unit | 1CC | 4.592 | | 3VL9600-3MQ01 | | 1 | 1 unit | 1CC | 5.800 |
| | 3VL9400-3HN01 | | 1 | 1 unit | 1CC | 0.024 | | 3VL9600-3HN01 | | 1 | 1 unit | 1CC | 0.026 |
| | -- | | | | | | | -- | | | | | |
| | 3VL9400-3JM01 | | 1 | 1 unit | 1CC | 2.051 | | 3VL9600-3JM01 | | 1 | 1 unit | 1CC | 2.097 |
| | 3VL9600-3JP01 | | 1 | 1 unit | 1CC | 0.813 | | 3VL9600-3JP01 | | 1 | 1 unit | 1CC | 0.813 |
| | 3VL9600-3JP21 | | 1 | 1 unit | 1CC | 0.811 | | 3VL9600-3JP21 | | 1 | 1 unit | 1CC | 0.811 |
| | 3VL9600-3JP41 | | 1 | 1 unit | 1CC | 1.580 | | 3VL9600-3JP41 | | 1 | 1 unit | 1CC | 1.580 |
| | 3VL9600-3JP11 | | 1 | 1 unit | 1CC | 0.100 | | 3VL9600-3JP11 | | 1 | 1 unit | 1CC | 0.100 |
| | 3VL9600-3JP61 | | 1 | 1 unit | 1CC | 1.559 | | 3VL9600-3JP61 | | 1 | 1 unit | 1CC | 1.559 |
| | 3VL9400-3JN01 | | 1 | 1 unit | 1CC | 0.974 | | 3VL9600-3JN01 | | 1 | 1 unit | 1CC | 0.932 |
| | 3VL9600-3JQ31 | | 1 | 1 unit | 1CC | 4.536 | | 3VL9600-3JQ31 | | 1 | 1 unit | 1CC | 4.536 |
| | 3VL9600-3JQ41 | | 1 | 1 unit | 1CC | 0.370 | | 3VL9600-3JQ41 | | 1 | 1 unit | 1CC | 0.370 |
| | 3VL9600-3JQ61 | | 1 | 1 unit | 1CC | 0.450 | | 3VL9600-3JQ61 | | 1 | 1 unit | 1CC | 0.450 |
| | 3VL9600-3JQ71 | | 1 | 1 unit | 1CC | 0.518 | | 3VL9600-3JQ71 | | 1 | 1 unit | 1CC | 0.518 |
| | 3VL9600-3JQ81 | | 1 | 1 unit | 1CC | 0.550 | | 3VL9600-3JQ81 | | 1 | 1 unit | 1CC | 0.550 |
| | 3VL9600-3JQ21 | | 1 | 1 unit | 1CC | 0.100 | | 3VL9600-3JQ21 | | 1 | 1 unit | 1CC | 0.100 |
| | 3VL9600-3JQ01 | | 1 | 1 unit | 1CC | 0.100 | | 3VL9600-3JQ01 | | 1 | 1 unit | 1CC | 0.100 |
| | 3VL9600-3JQ11 | | 1 | 1 unit | 1CC | 0.100 | | 3VL9600-3JQ11 | | 1 | 1 unit | 1CC | 0.100 |
| | -- | | | | | | | -- | | | | | |
| | 3VL9460-8SE20 | | 1 | 1 unit | 1CC | 0.123 | | -- | | | | | |
| | 3VL9400-2AP11 | | 1 | 1 unit | 1CC | 0.075 | | 3VL9800-2AP11 | | 1 | 1 unit | 1CC | 0.010 |
| | 3VL9400-2AP21 | | 1 | 1 unit | 1CC | 0.124 | | 3VL9800-2AP21 | | 1 | 1 unit | 1CC | 0.010 |

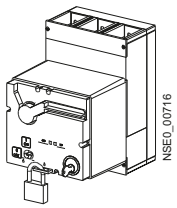
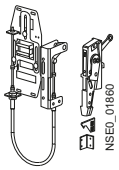
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## Accessories and spare parts



| | Version | DT | For VL1200 UL (NG frame) to VL1600 UL (PG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Operating mechanisms** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
|  3VL9.00-3M.01 | **Motorized operating mechanism[1] (UL file: E69455)** Degree of protection IP30, with locking device for 3 padlocks, not synchronizable | | | | | | | |
| | 50/60 Hz V AC / V DC | | | | | | | |
| | -- / 24 | | 3VL9800-3MJ01 | | 1 | 1 unit | 1CC | 7.847 |
| | 42 ... 48 / 42 ... 48 | | 3VL9800-3ML01 | | 1 | 1 unit | 1CC | 7.900 |
| | 60 / 60 | | 3VL9800-3MS01 | | 1 | 1 unit | 1CC | 7.900 |
| | 110 ... 127 / 110 ... 127 | | 3VL9800-3MN01 | | 1 | 1 unit | 1CC | 7.797 |
| | 220 ... 250 / 220 ... 250 | | 3VL9800-3MQ01 | | 1 | 1 unit | 1CC | 7.770 |
| | **Toggle lever extension** | | 3VL9800-3HN01 | | 1 | 1 unit | 1CC | 0.241 |
|  3VL9.00-3JM01 | **Max Flex operating mechanism, complete including switching mechanism, Bowden wire, red/black knob, NEMA 1, 3R, 12 steel – epoxy sheathed** | | | | | | | |
| | Bowden wire, 36 inch (0.9 m) | | -- | | | | | |
| | Bowden wire, 48 inch (1.2 m) | | 3VL9800-3JM01 | | 1 | 1 unit | 1CC | 4.340 |
| | **Knob for Max Flex operating mechanism** | | | | | | | |
| | Red/black knob[2] | | | | | | | |
| | NEMA 1, 3R, 12 plastic | | -- | | | | | |
| | NEMA 1, 3R, 12 steel – epoxy sheathed | | 3VL9800-3JP01 | | 1 | 1 unit | 1CC | 0.100 |
| | NEMA 4, 4X chrome-plated steel | | 3VL9800-3JP41 | | 1 | 1 unit | 1CC | 0.100 |
| | Gray knob[2] | | | | | | | |
| | NEMA 1, 3R, 12 plastic | | -- | | | | | |
| | Black knob[2] | | | | | | | |
| | NEMA 1, 3R, 12 steel – epoxy sheathed | | 3VL9800-3JP11 | | 1 | 1 unit | 1CC | 0.100 |
| | **Switching mechanism for Max Flex operating mechanism** | | 3VL9800-3JN01 | | 1 | 1 unit | 1CC | 0.100 |
| | **Bowden wire for Max Flex operating mechanism** | | | | | | | |
| | 36 inch (0.9 m) | | -- | | | | | |
| | 48 inch (1.2 m) | | 3VL9800-3JQ41 | | 1 | 1 unit | 1CC | 0.100 |
| | 60 inch (1.5 m) | | 3VL9800-3JQ61 | | 1 | 1 unit | 1CC | 0.100 |
| | 72 inch (1.8 m) | | 3VL9800-3JQ71 | | 1 | 1 unit | 1CC | 0.100 |
| | 84 inch (2.1 m) | | 3VL9800-3JQ81 | | 1 | 1 unit | 1CC | 0.100 |
| | 96 inch (2.4 m) | | 3VL9800-3JQ21 | | 1 | 1 unit | 1CC | 0.100 |
| | 120 inch (3.0 m) | | 3VL9800-3JQ01 | | 1 | 1 unit | 1CC | 0.100 |
| | 144 inch (3.6 m) | | 3VL9800-3JQ11 | | 1 | 1 unit | 1CC | 0.100 |
| | **Leading auxiliary switch for Max Flex operating mechanism** | | | | | | | |
| | • 1 changeover contact with 1.5 m long cables | | 3VL9300-2AP11 | | 1 | 1 unit | 1CC | 0.090 |
| | • 2 changeover contacts with 1.5 m long cables | | 3VL9300-2AP21 | | 1 | 1 unit | 1CC | 0.154 |

1) For safety lock as an assembly kit for retrofitting see pages 2/263 to 2/267.

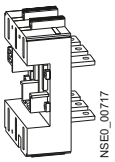
2) The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.



* You can order this quantity or a multiple thereof.

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| | Version | DT | For VL150X UL (CG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Plug-in versions/withdrawable versions (UL file: E69455)** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
|  3VL9.00-4PA31 | **Plug-in base assembly kits** Complete with base plate, base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin | | | | | | | |
| | **Rear terminals** | | | | | | | |
| | 3-pole | | 3VL9100-4PA31 | | 1 | 1 unit | 1CC | 2.710 |
| | **Front-accessible connections** | | | | | | | |
| | 3-pole | | 3VL9100-4PC31 | | 1 | 1 unit | 1CC | 2.440 |
| | **Blade contacts** As replacement for converting fixed-mounted into plug-in/withdrawable molded case circuit breakers, including trip pin | | | | | | | |
| | 1 set = 6 units **3-pole** | | 3VL9100-4PS31 | | 1 | 1 unit | 1CC | 0.332 |
| | **Trip pins and springs** As replacement for plug-in molded case circuit breaker | | 3VL9100-4PF01 | | 1 | 1 unit | 1CC | 0.013 |
| | **Auxiliary circuit plug connections for plug-in bases**[1] Accessory connections for plug-in molded case circuit breakers (factory-wired connectors) and for plug-in bases (coupling with screw terminal) | | | | | | | |
| | 8 terminals[1] | | 3VL9300-4PJ01 | | 1 | 1 unit | 1CC | 0.221 |
| | **Position signaling switches** (Connected/disconnected position) For plug-in base, 1 CO, max. 2 signaling switches possible | | 3VL9000-4WL01 | | 1 | 1 unit | 1CC | 0.040 |

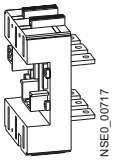
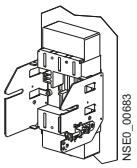
[1] It is recommended to use a maximum of 2 auxiliary circuit plug-in systems per molded case circuit breaker (16 terminals).

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## Accessories and spare parts



| | Version | DT | For VL150 UL (DG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Plug-in versions/withdrawable versions (UL file: E69455)** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
|  3VL9.00-4PA31 | **Plug-in base assembly kits** Complete with base plate, base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin | | | | | | | |
| | **Rear terminals** | | | | | | | |
| | 3-pole | | 3VL9200-4PA31 | | 1 | 1 unit | 1CC | 2.500 |
| | **Front-accessible connections** | | | | | | | |
| | 3-pole | | 3VL9200-4PC31 | | 1 | 1 unit | 1CC | 2.530 |
|  3VL9.00-4WA31 | **Withdrawable versions** Same as plug-in base assembly kit, with additional side panels and racking mechanism | | | | | | | |
| | **Rear terminals** | | | | | | | |
| | 3-pole | | 3VL9200-4WA31 | | 1 | 1 unit | 1CC | 5.231 |
| | **Front-accessible connections** | | | | | | | |
| | 3-pole | | 3VL9200-4WC31 | | 1 | 1 unit | 1CC | 4.987 |
| | **Blade contacts** As replacement for converting fixed-mounted into plug-in/withdrawable molded case circuit breakers, including trip pin | | | | | | | |
| | 1 set = 6 units **3-pole** | | 3VL9200-4PS31 | | 1 | 1 unit | 1CC | 0.248 |
| | **Trip pins and springs** As replacement for plug-in/withdrawable circuit breaker | | 3VL9300-4PF01 | | 1 | 1 unit | 1CC | 0.013 |
| | **Auxiliary circuit plug connections for plug-in bases** Accessory connections for plug-in molded case circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal) | | [1] | | | | | |
| | 8 terminals | | 3VL9300-4PJ01 | | 1 | 1 unit | 1CC | 0.221 |
| | **Position signaling switches** (connected/disconnected position) For plug-in/withdrawable base, 1 CO, max. 2 signaling switches possible | | 3VL9000-4WL01 | | 1 | 1 unit | 1CC | 0.040 |

[1] It is recommended to use a maximum of 2 auxiliary circuit plug-in systems per molded case circuit breaker (16 terminals).

[2] It is recommended to use a maximum of 3 auxiliary circuit plug-in systems per molded case circuit breaker (24 terminals).



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| DT | For VL250 UL (FG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL400 UL (JG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **3VL9300-4PA31** | | 1 | 1 unit | 1CC | 2.920 | | **3VL9400-4PA31** | | 1 | 1 unit | 1CC | 6.942 |
| | **3VL9300-4PC31** | | 1 | 1 unit | 1CC | 2.672 | | **3VL9400-4PC31** | | 1 | 1 unit | 1CC | 42.000 |
| | **3VL9300-4WA31** | | 1 | 1 unit | 1CC | 5.089 | | **3VL9400-4WA31** | | 1 | 1 unit | 1CC | 12.650 |
| | **3VL9300-4WC31** | | 1 | 1 unit | 1CC | 4.940 | | **3VL9400-4WC31** | | 1 | 1 unit | 1CC | 6.500 |
| | **3VL9300-4PS31** | | 1 | 1 unit | 1CC | 0.342 | | **3VL9400-4PS31** | | 1 | 1 unit | 1CC | 0.720 |
| | **3VL9300-4PF01** | | 1 | 1 unit | 1CC | 0.013 | | **3VL9400-4PF01** | | 1 | 1 unit | 1CC | 0.015 |
| | 1) **3VL9300-4PJ01** | | 1 | 1 unit | 1CC | 0.221 | | 2) **3VL9400-4PJ01** | | 1 | 1 unit | 1CC | 0.231 |
| | **3VL9000-4WL01** | | 1 | 1 unit | 1CC | 0.040 | | **3VL9000-4WL01** | | 1 | 1 unit | 1CC | 0.040 |

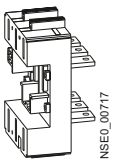
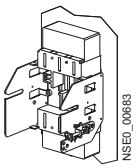
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## Accessories and spare parts



| | Version | DT | For VL400X (LG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Plug-in versions/withdrawable versions (UL file: E69455)** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
|  3VL9.00-4PA31 | **Plug-in base assembly kits** Complete with base plate, base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin | | | | | | | |
| | **Rear terminals** 3-pole | | 3VL9460-4PA31 | | 1 | 1 unit | 1CC | 8.200 |
| | **Front-accessible connections** 3-pole | | 3VL9460-4PC31 | | 1 | 1 unit | 1CC | 6.670 |
|  3VL9.00-4WA31 | **Withdrawable versions** Same as plug-in base assembly kit, with additional side panels and racking mechanism | | | | | | | |
| | **Rear terminals**[1] 3-pole | | 3VL9460-4WA31 | | 1 | 1 unit | 1CC | 11.500 |
| | **Front-accessible connections** 3-pole | | 3VL9460-4WC31 | | 1 | 1 unit | 1CC | 10.866 |
| | **Blade contacts** As replacement for converting fixed-mounted into plug-in/withdrawable molded case circuit breakers, including trip pin 1 set = 6 units 3-pole | | 3VL9460-4PS31 | | 1 | 1 unit | 1CC | 1.313 |
| | **Trip pins and springs** As replacement for plug-in/ withdrawable molded case circuit breaker | | 3VL9460-4PF01 | | 1 | 1 unit | 1CC | 0.018 |
| | **Auxiliary circuit plug connections for plug-in bases**[2] Accessory connections for plug-in molded case circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal) 8 terminals[2] | | 3VL9460-4PJ01 | | 1 | 1 unit | 1CC | 0.316 |
| | **Position signaling switches** (connected/disconnected position) For plug-in/withdrawable base, 1 CO, max. 2 signaling switches possible | | 3VL9000-4WL01 | | 1 | 1 unit | 1CC | 0.040 |

1) With VL800 UL (MG frame) to VL1200 UL (NG frame) as vertical connection.

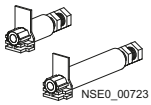
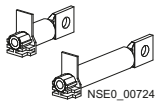
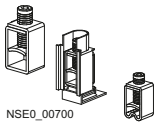
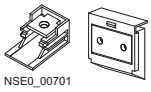
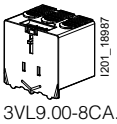
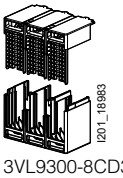
2) It is recommended to use a maximum of 3 auxiliary circuit plug-in systems per molded case circuit breaker (24 terminals).



*** You can order this quantity or a multiple thereof.**

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| | Version | DT | For VL150X UL (CG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Connection parts for fixed-mounted molded case circuit breakers** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
| | **Rear terminals** | | | | | | | |
|  NSE0_00723 3VL9.00-4RA01, 3VL9.00-4RB01 | Short connection (1 unit) | | 3VL9100-4RA01 | | 1 | 1 unit | 1CC | 0.158 |
| | Long connection (1 unit) | | 3VL9100-4RB01 | | 1 | 1 unit | 1CC | 0.261 |
| | Terminal kit (2 short + 1 long) 3-pole | | 3VL9100-4RC31 | | 1 | 1 unit | 1CC | 0.552 |
|  NSE0_00724 3VL9.00-4RK01, 3VL9.00-4RL01 | Short flat connection (1 unit) | | 3VL9100-4RK01 | | 1 | 1 unit | 1CC | 0.126 |
| | Long flat connection (1 unit) | | 3VL9100-4RL01 | | 1 | 1 unit | 1CC | 0.222 |
| | Flat connector kit (2 short + 1 long) 3-pole | | 3VL9100-4RM31 | | 1 | 1 unit | 1CC | 0.462 |
| | **Steel box terminal with auxiliary conductor connection** | | | | | | | |
| | Terminal with auxiliary conductor connection up to 0.5 A | | 3VL9120-4TN31 | | 1 | 1 unit | 1CC | 0.269 |
|  NSE0_00700 3VL9...-4TC.1 | **Box terminals** Connection for flexible flat copper busbar or cable | | | | | | | |
| | 1 set = 3 units | | 3VL9120-4TC31 | | 1 | 1 unit | 1CC | 0.097 |
|  3VL9...-4TD.1 | **Circular conductor terminals**[1] Only for cables (Al or Cu) Aluminum terminal (tinned) | | | | | | | |
| | 1 set = 3 units | | 3VL9130-4TD31 | | 1 | 1 unit | 1CC | 0.093 |
|  NSE0_00701 3VL9.00-4TA.1 | **Terminals with screw connection** With insulator (for rear) for use with busbars and cable lugs | | | | | | | |
| | 1 set = 3 units Metric thread | | 3VL9100-4TA31 | | 1 | 1 unit | 1CC | 0.063 |
|  3VL9.00-8CA.1 | **Connection covers (terminal covers) for circuit breakers**[2] Degree of protection IP30 for main connections 1 set = 2 units | | | | | | | |
|  NSE0_00730 3VL9.00-8CB.1 | Extended 3-pole | | 3VL9300-8CA31 | | 1 | 1 unit | 1CC | 0.306 |
| | Standard 3-pole | | 3VL9300-8CB31 | | 1 | 1 unit | 1CC | 0.064 |
|  3VL9300-8CD31 | **Connection covers (terminal covers) for circuit breakers** Degree of protection IP2X for main connections 1 set = 1 unit (consisting of top part and bottom part) | | | | | | | |
| | 3-pole | | 3VL9300-8CD31 | | 1 | 1 unit | 1CC | 0.163 |
|  NSE0_00731 3VL9.00-8CE01 | **Phase barriers for molded case circuit breakers, fixed-mounted, plug-in or withdrawable versions** | | | | | | | |
| | 1 set = 2 units | | 3VL9300-8CE01 | | 1 | 1 unit | 1CC | 0.029 |

Note:

Only rear terminals with different lengths may be fitted next to one another (e.g. short-long-short or long-short-long).

1) Circular conductor terminals for VL150X UL (CG frame) suitable for 60 A to 150 A.

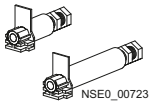
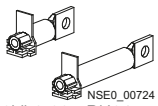
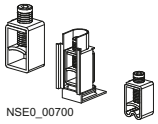
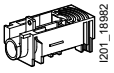
2) UL-listed for use with plug-in and withdrawable versions. A system-specific additional test is required for use with circuit breakers.

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## Accessories and spare parts

| | Version | DT | For VL150 UL (DG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Connection parts for fixed-mounted molded case circuit breakers** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
| | **Front connecting bars** | | | | | | | |
| | Terminal set with cover for mounting the circuit breaker on busbars<br>1 set = 3 units | | 3VL9200-4EC31 | | 1 | 1 unit | 1CC | 1.356 |
| <br>NSE0_00723<br>3VL9.00-4RA01, 3VL9.00-4RB01 | **Rear terminals**<br>Short connection (1 unit) | | 3VL9200-4RA01 | | 1 | 1 unit | 1CC | 0.165 |
| | Long connection (1 unit) | | 3VL9200-4RB01 | | 1 | 1 unit | 1CC | 0.271 |
| | Terminal kit (2 short + 1 long)<br>3-pole | | 3VL9200-4RC31 | | 1 | 1 unit | 1CC | 0.566 |
| <br>NSE0_00724<br>3VL9.00-4RK01, 3VL9.00-4RL01 | Short flat connection (1 unit) | | 3VL9200-4RK01 | | 1 | 1 unit | 1CC | 0.132 |
| | Long flat connection (1 unit) | | 3VL9200-4RL01 | | 1 | 1 unit | 1CC | 0.233 |
| | Flat connector kit<br>(2 short + 1 long)<br>3-pole | | 3VL9200-4RM31 | | 1 | 1 unit | 1CC | 0.460 |
| <br>NSE0_00725 | Flat connecting bar (1 unit) | | -- | | | | | |
| | Flat connecting bars<br>1 set = 3 units, 3-pole | | -- | | | | | |
| <br>NSE0_00700<br>3VL9...-4TC.1 | **Box terminal**<br>Connection for flexible flat copper busbar or cable<br>1 set = 3 units | | 3VL9220-4TC31 | | 1 | 1 unit | 1CC | 0.115 |
| <br>I201_16986<br>3VL9215-4TD31 | **Circular conductor terminal with terminal covers for cable (only for Al or Cu cables)**<br>Terminal with auxiliary conductor connection up to 0.5 A<br>1 set = 3 units | | 3VL9215-4TD31 | | 1 | 1 unit | 1CC | 0.356 |
| <br>I201_16982<br>3VL9220-4TN31 | **Steel box terminal with auxiliary conductor connection**<br>Terminal with auxiliary conductor connection up to 0.5 A (FG frame up to 6.3 A) | | 3VL9220-4TN31 | | 1 | 1 unit | 1CC | 0.277 |
| <br>3VL9...-4TD.1 | **Circular conductor terminals**[1]<br>Only for cables (Al or Cu)<br>Aluminum terminal (tinned)<br>1 set = 3 units | | 3VL9230-4TD31 | | 1 | 1 unit | 1CC | 0.121 |
| <br>NSE0_01542<br>3VL9...-4TF.1 | **Multiple feed-in terminals**<br>Only for cables (Al or Cu)<br>Aluminum terminal (tinned)<br>1 set = 3 units | Double | -- | | | | | |
| | **Multiple feed-in terminal with terminal cover**<br>Terminal with auxiliary conductor connection up to 0.5 A<br>1 set = 3 units | Double | -- | | | | | |

Note:

Only rear terminals with different lengths may be fitted next to one another (e.g. short-long-short or long-short-long).

[1] Circular conductor terminals for VL150 UL suitable for 60 to 150 A.



* You can order this quantity or a multiple thereof.

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| DT | For VL250 UL (FG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL400 UL (JG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9300-4EC31 | | 1 | 1 unit | 1CC | 0.500 | | 3VL9400-4EC31 | | 1 | 1 unit | 1CC | 1.313 |
| | 3VL9300-4RA01 | | 1 | 1 unit | 1CC | 0.164 | | 3VL9400-4RA01 | | 1 | 1 unit | 1CC | 0.428 |
| | 3VL9300-4RB01 | | 1 | 1 unit | 1CC | 0.264 | | 3VL9400-4RB01 | | 1 | 1 unit | 1CC | 0.712 |
| | 3VL9300-4RC31 | | 1 | 1 unit | 1CC | 0.555 | | 3VL9400-4RC31 | | 1 | 1 unit | 1CC | 1.203 |
| | 3VL9300-4RK01 | | 1 | 1 unit | 1CC | 0.129 | | 3VL9400-4RK01 | | 1 | 1 unit | 1CC | 0.389 |
| | 3VL9300-4RL01 | | 1 | 1 unit | 1CC | 0.224 | | 3VL9400-4RL01 | | 1 | 1 unit | 1CC | 0.700 |
| | 3VL9300-4RM31 | | 1 | 1 unit | 1CC | 0.451 | | 3VL9400-4RM31 | | 1 | 1 unit | 1CC | 1.458 |
| | -- | | | | | | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | 3VL9335-4TC31 | | 1 | 1 unit | 1CC | 0.204 | | 3VL9460-4TC31 | | 1 | 1 unit | 1CC | 0.463 |
| | -- | | | | | | | -- | | | | | |
| | 3VL9335-4TN31 | | 1 | 1 unit | 1CC | 0.374 | | 3VL9460-4TN31 | | 1 | 1 unit | 1CC | 0.795 |
| | 3VL9335-4TD31 | | 1 | 1 unit | 1CC | 0.150 | | 3VL9475-4TD31 | | 1 | 1 unit | 1CC | 0.353 |
| | -- | | | | | | | 3VL9425-4TF31 | | 1 | 1 unit | 1CC | 0.530 |
| | -- | | | | | | | 3VL9460-4TF31 | | 1 | 1 unit | 1CC | 0.899 |

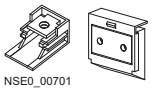
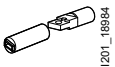
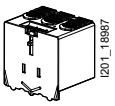
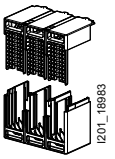
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## Accessories and spare parts

| | Version | | DT | For VL150 UL (DG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|
| **Connection parts for fixed-mounted molded case circuit breakers** | | | | | | | | | |
| | ***3-pole*** | | | | | | | | |
|  NSE0_00701 | **Connection with screw-type terminals** With insulator (for rear) for use with busbars and cable lugs | | | | | | | | |
| 3VL9.00-4TA.1 | 1 set = 3 units | Metric thread | | 3VL9200-4TA31 | | 1 | 1 unit | 1CC | 0.075 |
| | 1 set = 3 units | Inch thread | | 3VL9200-4TB31 | | 1 | 1 unit | 1CC | 0.068 |
|  I201_18984 | **Cable lug connection** | | | | | | | | |
| 3VL9220-4TM31 | 1 set = 3 units | | | 3VL9220-4TM31 | | 1 | 1 unit | 1CC | 0.262 |
| | **Connection covers (terminal covers) for circuit breakers**[1] Degree of protection IP30 for main connections 1 set = 2 units | | | | | | | | |
|  I201_18987 | Extended | 3-pole | | 3VL9300-8CA31 | | 1 | 1 unit | 1CC | 0.306 |
| 3VL9.00-3CA.1 | | | | | | | | | |
|  NSE0_00730 | Standard | 3-pole | | 3VL9300-8CB31 | | 1 | 1 unit | 1CC | 0.064 |
| 3VL9.00-3CB.1 | | | | | | | | | |
|  I201_18983 | **Connection covers (terminal covers) for circuit breakers** Degree of protection IP2X for main connections 1 set = 1 unit (consisting of top part and bottom part) | | | | | | | | |
| 3VL9300-8CD31 | 3-pole | | | 3VL9300-8CD31 | | 1 | 1 unit | 1CC | 0.163 |
|  NSE0_00731 | **Phase barriers for molded case circuit breakers, fixed-mounted, plug-in or withdrawable versions** | | | | | | | | |
| 3VL9.00-8CE01 | 1 set = 2 units | | | 3VL9300-8CE01 | | 1 | 1 unit | 1CC | 0.029 |

1) UL-listed for use with plug-in and withdrawable versions. A system-specific additional test is required for use with circuit breakers.



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| DT | For VL250 UL (FG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL400 UL (JG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **3VL9300-4TA31** | | 1 | 1 unit | 1CC | 0.102 | | **3VL9400-4TA31** | | 1 | 1 unit | 1CC | 0.116 |
| | **3VL9300-4TB31** | | 1 | 1 unit | 1CC | 0.095 | | **--** | | | | | |
| | **3VL9335-4TM31** | | 1 | 1 unit | 1CC | 0.383 | | **3VL9460-4TM31** | | 1 | 1 unit | 1CC | 0.625 |
| | **3VL9300-8CA31** | | 1 | 1 unit | 1CC | 0.306 | | **3VL9400-8CA31** | | 1 | 1 unit | 1CC | 0.615 |
| | **3VL9300-8CB31** | | 1 | 1 unit | 1CC | 0.064 | | **3VL9400-8CB31** | | 1 | 1 unit | 1CC | 0.132 |
| | **3VL9300-8CD31** | | 1 | 1 unit | 1CC | 0.163 | | **3VL9400-8CD31** | | 1 | 1 unit | 1CC | 0.308 |
| | **3VL9300-8CE01** | | 1 | 1 unit | 1CC | 0.029 | | **3VL9600-8CE01** | | 1 | 1 unit | 1CC | 0.063 |

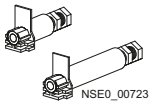
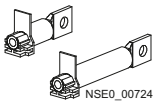
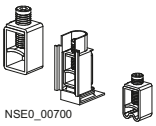
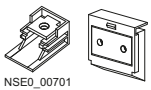
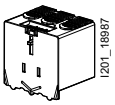
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## Accessories and spare parts

| | Version | DT | For VL400X UL (LG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Connection parts for fixed-mounted molded case circuit breakers** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
| | **Front connecting bars** | | | | | | | |
| | Terminal set with cover for mounting the circuit breaker on busbars<br>1 set = 3 units | | 3VL9460-4EC31 | | 1 | 1 unit | 1CC | 2.145 |
| <br>NSE0_00723<br>3VL9.00-4RA01,<br>3VL9.00-4RB01 | **Rear terminals**<br>Short connection (1 unit) | | -- | | | | | |
| | Long connection (1 unit) | | -- | | | | | |
| | Terminal kit (2 short + 1 long)<br>3-pole | | -- | | | | | |
| <br>NSE0_00724<br>3VL9.00-4RK01,<br>3VL9.00-4RL01 | Short flat connection (1 unit) | | -- | | | | | |
| | Long flat connection (1 unit) | | 3VL9460-4RP01 | | 1 | 1 unit | 1CC | 0.810 |
| | Flat connector kit<br>(2 short + 1 long)<br>3-pole | | -- | | | | | |
| <br>NSE0_00725<br>3VL9.00-4R..1 | Flat connecting bar (1 unit) | | 3VL9460-4RG01 | | 1 | 1 unit | 1CC | 0.377 |
| | Flat connecting bars<br>1 set = 3 units, 3-pole | | 3VL9460-4RH31 | | 1 | 1 unit | 1CC | 1.272 |
| <br>NSE0_00700<br>3VL9.00-4TC.1 | **Box terminal**<br>Connection for flexible flat copper busbar or cable<br>1 set = 3 units | | -- | | | | | |
| <br>3VL9.00-4TD.1 | **Circular conductor terminals**<br>Only for cables (Al or Cu)<br>Aluminum terminal (tinned)<br>1 set = 3 units | | 3VL9475-4TD31 | | 1 | 1 unit | 1CC | 0.353 |
| <br>NSE0_01542<br>3VL9...-4TF.1 | **Multiple feed-in terminals**<br>Only for cables (Al or Cu)<br>Aluminum terminal (tinned)<br>1 set = 3 units | Double | -- | | | | | |
| | | • Terminal on feeder side[1] | 3VL9460-4TX31 | | 1 | 1 unit | 1CC | 0.822 |
| | | • Terminal on outgoing side[1] | 3VL9460-4TY31 | | 1 | 1 unit | 1CC | 0.820 |
| | | 3 times | -- | | | | | |
| | | 4 times | -- | | | | | |
| <br>NSE0_00701<br>3VL9.00-4TA.1 | **Connection with screw-type terminals**<br>With insulator (for rear) for use with busbars and cable lugs<br>1 set = 3 units | Metric thread | 3VL9460-4TA31 | | 1 | 1 unit | 1CC | 0.171 |
| | 1 set = 3 units | Inch thread | 3VL9460-4TB31 | | 1 | 1 unit | 1CC | 0.143 |
| <br>1201_16987<br>3VL9400-8CA31 | **Connection covers (terminal covers) for circuit breakers[2]**<br>Degree of protection IP30 for main connections<br>1 set = 2 units | | | | | | | |
| | Extended | 3-pole | 3VL9400-8CA31 | | 1 | 1 unit | 1CC | 0.615 |
| <br>NSE0_00730<br>3VL9.00-3CB.1 | Standard | 3-pole | 3VL9400-8CB31 | | 1 | 1 unit | 1CC | 0.132 |
| <br>NSE0_00731<br>3VL9.00-8CE01 | **Phase barriers for molded case circuit breakers, fixed-mounted, plug-in or withdrawable versions[3]**<br>1 set = 2 units | | 3VL9600-8CE01 | | 1 | 1 unit | 1CC | 0.063 |

Note:

Only rear terminals with different lengths may be fitted next to one another (e.g. short-long-short or long-short-long).

1) Extended terminal cover included in scope of supply.

2) UL-listed for use with plug-in and withdrawable versions. A system-specific additional test is required for use with circuit breakers.

3) Plug-in versions: not for VL1200 UL (NG frame); withdrawable version: not for VL800 UL (MG frame) and VL1200 UL (NG frame).



* You can order this quantity or a multiple thereof.

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| DT | For VL800 UL (MG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL1200 UL (NG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9600-4EC31 | | 1 | 1 unit | 1CC | 2.873 | | 3VL9800-4EF01 | | 1 | 1 unit | 1CC | 0.020 |
| | -- | | | | | | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | 3VL9600-4RP01 | | 1 | 1 unit | 1CC | 1.653 | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | 3VL9600-4RG01 | | 1 | 1 unit | 1CC | 1.305 | | 3VL9700-4RG01 | | 1 | 1 unit | 1CC | 1.708 |
| | 3VL9600-4RH31 | | 1 | 1 unit | 1CC | 4.080 | | 3VL9700-4RH31 | | 1 | 1 unit | 1CC | 4.970 |
| | -- | | | | | | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | 3VL9675-4TF31 | | 1 | 1 unit | 1CC | 1.228 | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | -- | | | | | | | -- | | | | | |
| | 3VL9650-4TG31 | | 1 | 1 unit | 1CC | 1.130 | | 3VL9775-4TG31 | | 1 | 1 unit | 1CC | 3.414 |
| | -- | | | | | | | 3VL9750-4TH31 | | 1 | 1 unit | 1CC | 2.562 |
| | 3VL9600-4TA31 | | 1 | 1 unit | 1CC | 0.340 | | 3VL9800-4TA31 | | 1 | 1 unit | 1CC | 0.362 |
| | 3VL9600-4TB31 | | 1 | 1 unit | 1CC | 0.305 | | 3VL9800-4TB31 | | 1 | 1 unit | 1CC | 0.318 |
| | 3VL9600-8CA31 | | 1 | 1 unit | 1CC | 0.910 | | 3VL9800-8CA31 | | 1 | 1 unit | 1CC | 1.268 |
| | 3VL9600-8CB31 | | 1 | 1 unit | 1CC | 0.223 | | 3VL9800-8CB31 | | 1 | 1 unit | 1CC | 0.370 |
| | 3VL9600-8CE01 | | 1 | 1 unit | 1CC | 0.063 | | 3VL9800-8CE01 | | 1 | 1 unit | 1CC | 0.150 |

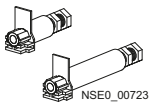
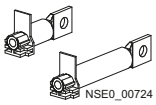
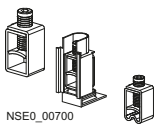
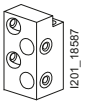
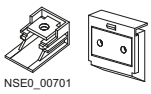
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## Accessories and spare parts

| | Version | DT | For VL1600 UL (PG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Connection parts for fixed-mounted molded case circuit breakers** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
| | **Front connecting bars** | | | | | | | |
| | Terminal set with cover for mounting the circuit breaker on busbars<br>1 set = 3 units<br>• Incoming side, mounting from the top<br>• Incoming side, mounting from the bottom | | 3VL9800-4EF01 | | 1 | 1 unit | 1CC | 0.020 |
| <br>NSE0_00723<br>3VL9.00-4RA01,<br>3VL9.00-4RB01 | **Rear terminals**<br>Short connection (1 unit)<br>Long connection (1 unit)<br>Terminal kit (2 short + 1 long)<br>3-pole | | --<br>--<br>-- | | | | | |
| <br>NSE0_00724<br>3VL9.00-4RK01,<br>3VL9.00-4RL01 | Short flat connection (1 unit)<br>Long flat connection (1 unit)<br>Flat connector kit<br>(2 short + 1 long)<br>3-pole | | --<br>--<br>-- | | | | | |
| <br>NSE0_00725<br>3VL9.00-4R..1 | Flat connecting bar (1 unit)<br>Flat connecting bars<br>1 set = 3 units, 3-pole | | --<br>-- | | | | | |
| <br>NSE0_00700<br>3VL9...-4TC.1 | **Box terminal**<br>Connection for flexible flat copper busbar or cable<br>1 set = 3 units | | -- | | | | | |
| <br>3VL9...-4TD.1 | **Circular conductor terminals**<br>Only for cables (Al or Cu)<br>Aluminum terminal (tinned)<br>1 set = 3 units | | -- | | | | | |
| <br>I201_18567<br>3VL9...-4T..1 | **Multiple feed-in terminals**<br>Only for cables (Al or Cu)<br>Aluminum terminal (tinned)<br>4-fold<br>(for installation with mounting base)<br>1 units | | 3VL9875-4TH01 | | 1 | 1 unit | 1CC | 1.223 |
| <br>NSE0_00701<br>3VL9.00-4TA.1 | **Terminals with screw connection**<br>With insulator (for rear)<br>for use with busbars and cable lugs<br>1 set = 3 units<br>1 set = 3 units | Metric thread<br>Inch thread | 3VL9800-4TA31<br>3VL9800-4TB31 | | 1<br>1 | 1 unit<br>1 unit | 1CC<br>1CC | 0.362<br>0.318 |
| <br>NSE0_00681<br>3VL9.00-3CA.1 | **Connection covers**<br>**(terminal covers) for circuit breakers[1)]**<br>Degree of protection IP30 for main connections<br>1 set = 2 units | | | | | | | |
| <br>NSE0_00730<br>3VL9.00-3CB.1 | Extended<br>Standard | 3-pole<br>3-pole | 3VL9800-8CA31<br>3VL9800-8CB31 | | 1<br>1 | 1 unit<br>1 unit | 1CC<br>1CC | 1.268<br>0.370 |
| <br>NSE0_00731<br>3VL9.00-8CE01 | **Phase barriers for molded case circuit breakers, fixed-mounted**<br>1 set = 2 units | | 3VL9800-8CE01 | | 1 | 1 unit | 1CC | 0.150 |
| | **Mounting base**<br>Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base | | | | | | | |
| | Front-accessible connections | | 3VL9800-4TU31 | | 1 | 1 unit | 1CC | 24.830 |
| | Rear terminals | | 3VL9800-4TV31 | | 1 | 1 unit | 1CC | 23.396 |

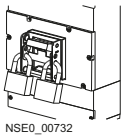
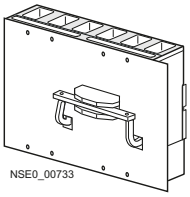
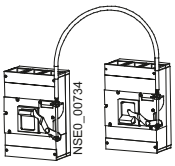
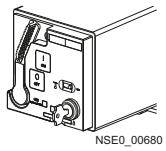
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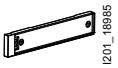


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| | Version | DT | For VL150X UL (CG frame) and VL150 UL (DG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Interlocks** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
|  NSE0_00732 3VL9.00-3HL01 | **Locking devices for toggle levers** For locking the molded case circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5 – 8 mm can be used. Removable (padlocks not included) | | 3VL9300-3HL01 | | 1 | 1 unit | 1CC | 0.074 |
|  NSE0_00733 3VL9.00-8L.01 | **Rear interlocking modules** For the mechanical interlocking of two adjacent molded case circuit breakers. The circuit breakers must be of the same installation type and frame size. (Mounting plate not included in scope of supply) Fixed-mounted molded case circuit breakers | | 3VL9300-8LC01 | | 1 | 1 unit | 1CC | 0.473 |
|  NSE0_00734 3VL9.00-8LA01 | **Interlocking modules for Bowden wire interlocking[1])** For the mechanical interlocking of two molded case circuit breakers. Interlocking module for one molded case circuit breaker | | 3VL9300-8LA01 | | 1 | 1 unit | 1CC | 0.194 |
| | Note: Combinations with next size up/down possible (see Article No.) | | | | | | | |
| | **Bowden wires** for Bowden wire interlocking[1)] | | | | | | | |
| | • Wire length 0.5 m | | 3VL9000-8LH11 | | 1 | 1 unit | 1CC | 0.330 |
| | • Wire length 1.0 m | | 3VL9000-8LH21 | | 1 | 1 unit | 1CC | 0.400 |
| | • Wire length 1.5 m | | 3VL9000-8LH31 | | 1 | 1 unit | 1CC | 0.533 |
| | **Sets of fixing screws (metric thread)** Including the screws, washers and nuts required to secure a molded case circuit breaker to a prepared surface | | | | | | | |
| | Set with 4 screws | | 3VL9300-8SA40 | | 1 | 1 unit | 1CC | 0.053 |
|  NSE0_00680 3VL9.00-8L.01 | **Safety lock assembly kits** Key can be removed with the molded case circuit breaker in the "OFF" position | | | | | | | |
| | For front-operated rotary operating mechanisms | | | | | | | |
| | Ronis lock type | | 3VL9715-8HA01 | | 1 | 1 unit | 1CC | 0.271 |
| | For motorized operating mechanism with stored energy mechanism | | | | | | | |
| | Filli Giussani lock type | | 3VL9321-8HA01 | | 1 | 1 unit | 1CC | 0.041 |

| | Version | DT | For VL150 UL (DG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
|  3VL9...-8B.01 | **Transparent covers for releases, sealable** To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) | | | | | | | |
| | • Electronic Trip Unit | | 3VL9700-8BL01 | | 1 | 1 unit | 1CC | 0.013 |
| | • Thermal-magnetic[2)] | | 3VL9300-8BM01 | | 1 | 1 unit | 1CC | 0.020 |
|  3VL9000-8AP01 | **Battery power supply for activating/parameterizing/tripping the electronic trip units** (two 9 V blocks are required in addition) | | 3VL9000-8AP01 | | 1 | 1 unit | 1CC | 0.208 |

1) Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism!
2) Also suitable for VL150X UL (CG frame).

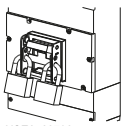
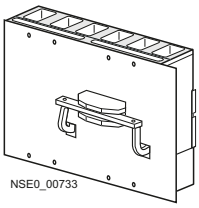
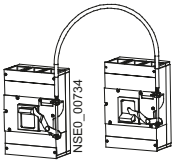
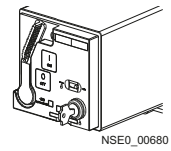
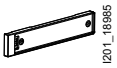
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## Accessories and spare parts



| | Version | DT | For VL250 UL (FG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Interlocks** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
|  NSE0_00732 3VL9.00-3HL01 | **Locking devices for toggle levers** For locking the molded case circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5 – 8 mm can be used. Removable (padlocks not included) | | 3VL9300-3HL01 | | 1 | 1 unit | 1CC | 0.074 |
|  NSE0_00733 3VL9.00-8L.01 | **Rear interlocking modules** For the mechanical interlocking of two adjacent molded case circuit breakers. The circuit breakers must be of the same installation type and frame size. (Mounting plate not included in scope of supply) | | | | | | | |
| | Fixed-mounted molded case circuit breakers | | 3VL9300-8LC01 | | 1 | 1 unit | 1CC | 0.473 |
|  NSE0_00734 3VL9.00-8LA01 | **Interlocking modules for Bowden wire interlocking**[1] For the mechanical interlocking of two molded case circuit breakers. | | | | | | | |
| | Interlocking module for one molded case circuit breaker | | 3VL9300-8LA01 | | 1 | 1 unit | 1CC | 0.194 |
| | Note | | | | | | | |
| | Combinations with next size up/down possible (see Article No.) | | | | | | | |
| | **Bowden wires** for Bowden wire interlocking[1] | | | | | | | |
| | • Wire length 0.5 m | | 3VL9000-8LH11 | | 1 | 1 unit | 1CC | 0.330 |
| | • Wire length 1.0 m | | 3VL9000-8LH21 | | 1 | 1 unit | 1CC | 0.400 |
| | • Wire length 1.5 m | | 3VL9000-8LH31 | | 1 | 1 unit | 1CC | 0.533 |
|  NSE0_00680 3VL9...-8HA01 | **Safety lock assembly kits** Key can be removed with the molded case circuit breaker in the "OFF" position | | | | | | | |
| | For motorized operating mechanism with stored energy mechanism | | | | | | | |
| | Lock types | | | | | | | |
| | • Ronis | | -- | | | | | |
| | • Filli Giussani | | 3VL9321-8HA01 | | 1 | 1 unit | 1CC | 0.041 |
| | **Sets of fixing screws (metric thread)** Including the screws, washers and nuts required to secure a molded case circuit breaker to a prepared surface | | | | | | | |
| | Set with 4 screws | | 3VL9300-8SA40 | | 1 | 1 unit | 1CC | 0.053 |
|  I201_16985 3VL9...-8B.01 | **Transparent covers for releases, sealable** To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) | | | | | | | |
| | • For Electronic Trip Unit | | 3VL9700-8BL01 | | 1 | 1 unit | 1CC | 0.013 |
| | • For thermal-magnetic release | | 3VL9300-8BM01 | | 1 | 1 unit | 1CC | 0.020 |
|  3VL9000-8AP01 | **Battery power supply for activating/parameterizing/tripping the Electronic Trip Units** (two 9 V blocks are required in addition) | | 3VL9000-8AP01 | | 1 | 1 unit | 1CC | 0.208 |

1) Two interlocking modules and one Bowden wire are required. Cannot be used in conjunction with motorized operating mechanism!



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| DT | For VL400 UL (JG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL400X UL (LG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9400-3HL01 | | 1 | 1 unit | 1CC | 0.140 | | 3VL9400-3HL01 | | 1 | 1 unit | 1CC | 0.140 |
| | 3VL9400-8LC01 | | 1 | 1 unit | 1CC | 0.386 | | 3VL9400-8LC01 | | 1 | 1 unit | 1CC | 0.386 |
| | 3VL9400-8LA01 | | 1 | 1 unit | 1CC | 0.235 | | 3VL9400-8LA01 | | 1 | 1 unit | 1CC | 0.235 |
| | -- | | | | | | | -- | | | | | |
| | 3VL9000-8LH21 | | 1 | 1 unit | 1CC | 0.400 | | 3VL9000-8LH21 | | 1 | 1 unit | 1CC | 0.400 |
| | 3VL9000-8LH31 | | 1 | 1 unit | 1CC | 0.533 | | 3VL9000-8LH31 | | 1 | 1 unit | 1CC | 0.533 |
| | 3VL9715-8HA01 | | 1 | 1 unit | 1CC | 0.271 | | 3VL9715-8HA01 | | 1 | 1 unit | 1CC | 0.271 |
| | -- | | | | | | | -- | | | | | |
| | 3VL9500-8SA40 | | 1 | 1 unit | 1CC | 0.109 | | 3VL9500-8SA40 | | 1 | 1 unit | 1CC | 0.109 |
| | 3VL9700-8BL01 | | 1 | 1 unit | 1CC | 0.013 | | 3VL9700-8BL01 | | 1 | 1 unit | 1CC | 0.013 |
| | 3VL9400-8BM01 | | 1 | 1 unit | 1CC | 0.035 | | 3VL9400-8BM01 | | 1 | 1 unit | 1CC | 0.035 |
| | 3VL9000-8AP01 | | 1 | 1 unit | 1CC | 0.208 | | 3VL9000-8AP01 | | 1 | 1 unit | 1CC | 0.208 |

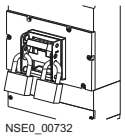
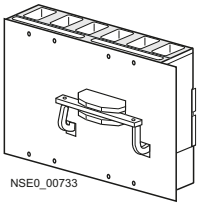
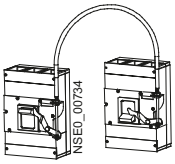
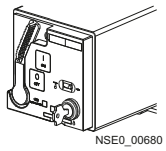
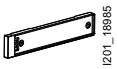
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## Accessories and spare parts



| | Version | DT | For VL800 UL (MG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Interlocks** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
|  NSE0_00732 3VL9.00-3HL01 | **Locking devices for toggle levers** For locking the molded case circuit breaker in the "OFF" position. Up to 3 padlocks with Ø 5 – 8 mm can be used. Removable (padlocks not included) | | 3VL9600-3HL01 | | 1 | 1 unit | 1CC | 0.130 |
|  NSE0_00733 3VL9.00-8L.01 | **Rear interlocking modules** For the mechanical interlocking of two adjacent molded case circuit breakers. The circuit breakers must be of the same installation type and frame size. (Mounting plate not included in scope of supply) Fixed-mounted molded case circuit breakers | | 3VL9600-8LC01 | | 1 | 1 unit | 1CC | 4.360 |
|  NSE0_00734 3VL9.00-8LA01 | **Interlocking modules for Bowden wire interlocking**[1] For the mechanical interlocking of two molded case circuit breakers. Interlocking module for one molded case circuit breaker | | 3VL9600-8LA01 | | 1 | 1 unit | 1CC | 0.269 |
| | Note: Combinations with next size up/down possible (see Article No.) | | | | | | | |
| | **Bowden wires** for Bowden wire interlocking[1] | | | | | | | |
| | • Wire length 0.5 m | | -- | | | | | |
| | • Wire length 1.0 m | | 3VL9000-8LH21 | | 1 | 1 unit | 1CC | 0.400 |
| | • Wire length 1.5 m | | 3VL9000-8LH31 | | 1 | 1 unit | 1CC | 0.533 |
|  NSE0_00680 3VL9....-8HA01 | **Safety lock assembly kits** Key can be removed with the molded case circuit breaker in the "OFF" position For motorized operating mechanism with stored energy mechanism Lock types | | | | | | | |
| | • Ronis | | 3VL9715-8HA01 | | 1 | 1 unit | 1CC | 0.271 |
| | • Filli Giussani | | -- | | | | | |
| | **Sets of fixing screws (metric thread)** Including the screws, washers and nuts required to secure a molded case circuit breaker to a prepared surface | | | | | | | |
| | Set with 4 screws | | 3VL9600-8SA40 | | 1 | 1 unit | 1CC | 0.118 |
|  I201_18985 3VL9...-8B.01 | **Transparent covers for releases, sealable** To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) | | | | | | | |
| | • For Electronic Trip Unit | | 3VL9700-8BL01 | | 1 | 1 unit | 1CC | 0.013 |
| | • For thermal-magnetic release | | -- | | | | | |
|  3VL9000-8AP01 | **Battery power supply for activating/parameterizing/tripping the Electronic Trip Units** (two 9 V blocks are required in addition) | | 3VL9000-8AP01 | | 1 | 1 unit | 1CC | 0.208 |

[1] Two interlocking modules and one Bowden wire are required.
Cannot be used in conjunction with motorized operating mechanism!



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| DT | For VL1200 UL (NG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL1600 UL (PG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9800-3HL01 | | 1 | 1 unit | 1CC | 0.250 | | 3VL9800-3HL01 | | 1 | 1 unit | 1CC | 0.250 |
| | 3VL9800-8LC01 | | 1 | 1 unit | 1CC | 4.262 | | 3VL9800-8LC01 | | 1 | 1 unit | 1CC | 4.262 |
| | 3VL9800-8LA01 | | 1 | 1 unit | 1CC | 0.298 | | 3VL9800-8LA01 | | 1 | 1 unit | 1CC | 0.298 |
| | --<br>--<br>3VL9000-8LH31 | | 1 | 1 unit | 1CC | 0.533 | | --<br>--<br>3VL9000-8LH31 | | 1 | 1 unit | 1CC | 0.533 |
| | 3VL9715-8HA01<br>-- | | 1 | 1 unit | 1CC | 0.271 | | 3VL9715-8HA01<br>-- | | 1 | 1 unit | 1CC | 0.271 |
| | 3VL9800-8SA40 | | 1 | 1 unit | 1CC | 0.116 | | 3VL9800-8SA40 | | 1 | 1 unit | 1CC | 0.116 |
| | 3VL9700-8BL01<br>-- | | 1 | 1 unit | 1CC | 0.013 | | 3VL9700-8BL01<br>-- | | 1 | 1 unit | 1CC | 0.013 |
| | 3VL9000-8AP01 | | 1 | 1 unit | 1CC | 0.208 | | 3VL9000-8AP01 | | 1 | 1 unit | 1CC | 0.208 |

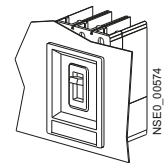
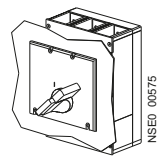
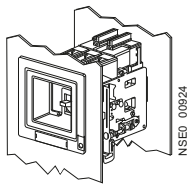
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## Accessories and spare parts



| | Version | DT | For VL150X UL (CG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Further accessories** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
| | **Masking frames (cover frames) For door cutouts** | | | | | | | |
|  Masking frame A | **A IP40** Fixed-mounted or plug-in molded case circuit breaker | | 3VL9300-8BC01 | | 1 | 1 unit | 1CC | 0.054 |
|  Masking frame B | **B[1] IP40** Fixed-mounted, plug-in or withdrawable molded case circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism | | 3VL9300-8BG01 | | 1 | 1 unit | 1CC | 0.114 |
|  Masking frame C | **C IP20** Withdrawable molded case circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/rotary operating mechanism) | | -- | | | | | |

| | Version | DT | For VL800 UL (MG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Further accessories** | | | | | | | | |
| | ***3-pole*** | | | | | | | |
| | **Masking frames (cover frames) For door cutouts** | | | | | | | |
| | **A IP40** Fixed-mounted or plug-in molded case circuit breaker | | 3VL9600-8BC01 | | 1 | 1 unit | 1CC | 0.074 |
| | **B[1] IP40** Fixed-mounted, plug-in or withdrawable molded case circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism | | 3VL9600-8BG01 | | 1 | 1 unit | 1CC | 0.192 |
| | **C IP20** Withdrawable molded case circuit breaker with toggle lever actuation. Assembly kit contains masking frame and extended escutcheon (cannot be used together with a motorized operating mechanism/rotary operating mechanism) | | 3VL9600-8BH01 | | 1 | 1 unit | 1CC | 0.259 |

[1] For withdrawable version IP20.



* You can order this quantity or a multiple thereof.

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| DT | For VL150 UL (DG frame) and VL250 UL (FG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL400 UL (JG frame) and VL400X UL (LG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9300-8BC01 | | 1 | 1 unit | 1CC | 0.054 | | 3VL9400-8BC01 | | 1 | 1 unit | 1CC | 0.046 |
| | 3VL9300-8BG01 | | 1 | 1 unit | 1CC | 0.114 | | 3VL9400-8BG01 | | 1 | 1 unit | 1CC | 0.163 |
| | 3VL9300-8BH01 | | 1 | 1 unit | 1CC | 0.325 | | 3VL9400-8BH01 | | 1 | 1 unit | 1CC | 0.435 |

| DT | For VL1200 UL (NG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg | DT | For VL1600 UL (PG frame) Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3VL9800-8BC01 | | 1 | 1 unit | 1CC | 0.054 | | 3VL9800-8BC01 | | 1 | 1 unit | 1CC | 0.054 |
| | 3VL9800-8BG01 | | 1 | 1 unit | 1CC | 0.223 | | 3VL9800-8BG01 | | 1 | 1 unit | 1CC | 0.223 |
| | 3VL9800-8BH01 | | 1 | 1 unit | 1CC | 0.380 | | 3VL9800-8BH01 | | 1 | 1 unit | 1CC | 0.380 |

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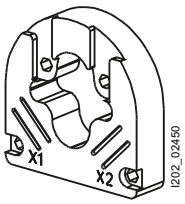
## Accessories and spare parts

### Further accessories

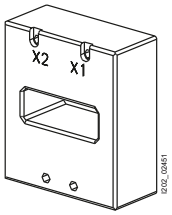
***3-pole***

**Current transformers for N-conductor/grounded neutral point of the transformer**

for ground-fault protection in 4-wire three-phase systems




3VL9206-8TT01




3VL9660-8TT01

| Version | | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| $I_n$/A of the ETU | Purpose | | | | | | | |
| 60 | for VL150 UL (DG frame) | | 3VL9206-8TT01 | | 1 | 1 unit | 1CC | 0.100 |
| 100 | for VL150 UL (DG frame) | | 3VL9310-8TT01 | | 1 | 1 unit | 1CC | 0.200 |
| | for VL250 UL (FG frame) | | 3VL9310-8TT01 | | 1 | 1 unit | 1CC | 0.200 |
| 150 | for VL150 UL (DG frame) | | 3VL9315-8TT01 | | 1 | 1 unit | 1CC | 0.045 |
| | for VL250 UL (FG frame) | | 3VL9315-8TT01 | | 1 | 1 unit | 1CC | 0.045 |
| 250 | for VL250 UL (FG frame) | | 3VL9425-8TT01 | | 1 | 1 unit | 1CC | 0.200 |
| | for VL400 UL (JG frame) | | 3VL9425-8TT01 | | 1 | 1 unit | 1CC | 0.200 |
| 400 | for VL400 UL (JG frame) | | 3VL9440-8TT01 | | 1 | 1 unit | 1CC | 0.100 |
| | for VL400X UL (LG frame) | | 3VL9440-8TT01 | | 1 | 1 unit | 1CC | 0.100 |
| 600 | for VL400X UL (LG frame) | | 3VL9660-8TT01 | | 1 | 1 unit | 1CC | 0.100 |
| | for VL800 UL (MG frame) | | 3VL9660-8TT01 | | 1 | 1 unit | 1CC | 0.100 |
| 800 | for VL800 UL (MG frame) | | 3VL9780-8TT01 | | 1 | 1 unit | 1CC | 0.020 |
| | for VL1200 UL (NG frame) | | 3VL9780-8TT01 | | 1 | 1 unit | 1CC | 0.020 |
| 1000 | for VL1200 UL (NG frame) | | 3VL9812-8TT01 | | 1 | 1 unit | 1CC | 0.075 |
| 1200 | for VL1200 UL (NG frame) | | 3VL9812-8TT01 | | 1 | 1 unit | 1CC | 0.075 |
| | for VL1600 UL (PG frame) | | 3VL9812-8TT01 | | 1 | 1 unit | 1CC | 0.075 |
| 1600 | for VL1600 UL (PG frame) | | 3VL9816-8TT01 | | 1 | 1 unit | 1CC | 0.100 |



* You can order this quantity or a multiple thereof.

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| For type | Version | DT | Article No. www.siemens.com/product?Article No. | Price per PU | PU (UNIT, SET, M) | PS*/ P. unit | PG | Weight per PU approx. kg |
|---|---|---|---|---|---|---|---|---|
| **Accessories for communication** | | | | | | | | |
| ***3-pole*** | | | | | | | | |
| ***Data transmission*** | | | | | | | | |
| VL150 UL (DG frame) to VL1600 UL (PG frame) | **COM20 Release 2 (PROFIBUS module for 3VL molded case circuit breaker according to UL)**<br>Module for connecting the 3VL molded case circuit breaker according to UL with Electronic Trip Unit to the PROFIBUS DP, including switching function and Zone Selective Interlocking functionality, connection cable to ETU not included in delivery | | 3VL9000-8AU00 | | 1 | 1 unit | 1CC | 0.287 |
| VL150 UL (DG frame) to VL1600 UL (PG frame) | **COM21 Release 2 (Modbus module for 3VL molded case circuit breaker according to UL)**<br>Module for connecting the 3VL molded case circuit breaker according to UL with electronic trip unit to a Modbus RTU bus system, including switching function and Zone Selective Interlocking functionality, connection cable to ETU not included in delivery | | 3VL9000-8AV00 | | 1 | 1 unit | 1CC | 0.295 |
| | **Addressing plugs**<br>For assigning the module addresses without using a PC/PG on COM20/COM21 (Release 2) through the system interface | ► | 3UF7910-0AA00-0 | | 1 | 1 unit | 42J | 0.015 |
| VL150 UL (DG frame) to VL250 UL (FG frame) | **COMKIT3**<br>Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising:<br>• Connecting cable length 1.5 m<br>• Alarm switches<br>• Protective cover to protect the connecting cable | | 3VL9300-8AQ61 | | 1 | 1 unit | 1CC | 0.142 |
| VL400 UL (JG frame) to VL400X UL (LG frame) | **COMKIT4**<br>Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising:<br>• Connecting cable length 1.5 m<br>• Auxiliary Switches and Alarm Switches<br>• Protective cover to protect the connecting cable | | 3VL9400-8AQ61 | | 1 | 1 unit | 1CC | 0.145 |
| VL600 UL (MG frame) to VL1600 UL (PG frame) | **COMKIT5**<br>Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising:<br>• Connecting cable length 1.5 m<br>• Auxiliary Switches and Alarm Switches<br>• Protective cover to protect the connecting cable | | 3VL9800-8AQ61 | | 1 | 1 unit | 1CC | 0.181 |
| VL150 UL (DG frame) to VL250 UL (FG frame) | **COMKIT6**<br>Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising:<br>• Connecting cable length 3 m<br>• Alarm switches<br>• Protective cover to protect the connecting cable | | 3VL9300-8AQ71 | | 1 | 1 unit | 1CC | 0.205 |
| VL400 UL (JG frame) to VL400X UL (LG frame) | **COMKIT7**<br>Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising:<br>• Connecting cable length 3 m<br>• Auxiliary Switches and Alarm Switches<br>• Protective cover to protect the connecting cable | | 3VL9400-8AQ71 | | 1 | 1 unit | 1CC | 0.214 |
| VL600 UL (MG frame) to VL1600 UL (PG frame) | **COMKIT8**<br>Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising:<br>• Connecting cable length 3 m<br>• Auxiliary Switches and Alarm Switches<br>• Protective cover to protect the connecting cable | | 3VL9800-8AQ71 | | 1 | 1 unit | 1CC | 0.246 |

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## Design

- Rated current range from 20 A to 1600 A
- Different making and breaking capacities for each size

| | |
|---|---|
| **N** | Standard (35 kA) |
| **H** | High (65 kA) |
| **L** | Very high (100 kA) |

- No power reduction/derating up to 40 °C
- Electronic Trip Unit from size 150 A (VL150 UL, DG frame), especially for time-based discrimination and ground-fault protection
- 2 families of internal accessories
- Complete bandwidth of external accessories, e.g. terminals also for aluminum cables.

All molded case circuit breakers are supplied with integrated overcurrent releases. The VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers are available with different connection variants (see "Main connections, basic equipment and options", page 2/276). Auxiliary switches, alarm switches and auxiliary releases can be easily retrofitted in the molded case circuit breakers or, if requested, are already installed when delivered.
The breaking capacity is indicated on the front of every molded case circuit breaker.

- Standard breaking capacity:
  35 kA at 50/60 Hz 480 V AC
- High breaking capacity:
  65 kA at 50/60 Hz 480 V AC
- Very high breaking capacity:
  100 kA at 50/60 Hz 480 V AC

### *Connection*

The following connection types are available for 3VL molded case circuit breakers according to UL 489:

- Box terminal, suitable for stranded conductors,
- Screw terminals for flat connection,
- Circular conductor/multiple feed-in terminal for Al/Cu cables,
- Cable lug connection.

The infeed and outgoing sides can be chosen on the molded case circuit breaker to suit requirements. The electrical data remains unaffected.

Various terminals feature an auxiliary conductor connection. Up to 0.5 A can be tapped here to directly power other devices.

Bare conductors at the top terminals must be insulated in the space that is needed above the arc chute.

All auxiliary releases (shunt releases and undervoltage releases), auxiliary switches and alarm switches are equipped with screw terminals and therefore are easy to connect electrically.

The motorized operating mechanisms with spring energy store always feature terminals. The leading auxiliary switches for the rotary operating mechanisms are always supplied with connecting cables.

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***VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers***

The main components of the 3VL molded case circuit breakers according to UL are the three conducting paths with incoming and outgoing terminals. The fixed and movable contacts are designed in such a way that magnetic repulsion of the contacts takes place under short-circuit conditions. In conjunction with the arc splitter chambers, a dynamic impedance is created that causes a current limitation through the reduction in the harmful effects of $I^2t$ and the $\imath_p$ energy resulting during short-circuits.

The 3VL molded case circuit breaker has a trip-free mechanism.

The double-insulated accessory compartments for the auxiliary releases and auxiliary switches are located on the left and right of the circuit breaker's operating mechanism.

The overcurrent releases for the VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers have the following characteristics:

- The overcurrent releases are available in a thermal-magnetic version and in an electronic[1)] version.
- The thermal-magnetic releases have non-adjustable overload releases and adjustable[2)] short-circuit releases.

In the case of all versions of the 3VL molded case circuit breakers according to UL with electronic overcurrent release, the current transformers are in the same enclosure as the tripping electronics. They supply a signal proportional to the load current to the electronic overcurrent release system.

All 3VL molded case circuit breakers according to UL with electronic overcurrent release measure the actual rms current. This is the most accurate method of measurement. Currents in present-day electrical distribution systems with very high harmonics are evaluated reliably.

***Overcurrent tripping systems***

The switching unit (frame) and release unit are assembled and tested at the factory. Accordingly, the release unit can only be replaced at the factory. The infeed and outgoing sides can be chosen on the molded case circuit breakers to suit requirements.

1. Thermal-magnetic releases of the VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers

The overcurrent releases and short-circuit releases work with bimetals and magnetic releases. They are available with non-adjustable overload releases and adjustable short-circuit releases.[2)]

The 3VL molded case circuit breakers for starter combination applications are usually combined with a motor contactor and a suitable overload relay.

1) VL150X UL (CG frame) only thermal-magnetic.

2) VL150X UL (CG frame) only with non-adjustable short-circuit release.

The non-automatic air circuit breakers have integrated self-protection against short-circuit so that back-up fuses can be omitted. Non-automatic air circuit breakers do not have overload protection.

2. Overcurrent releases of the VL150X UL (DG frame) to VL1600 UL (PG frame) molded case circuit breakers, electronic, ETU

The electronic tripping system consists of:

- 3 current transformers
- Evaluation electronics with microprocessor
- Intrinsic power supply, no external auxiliary power necessary
- Tripping solenoid.

In the case of VL150 UL (DG frame) and VL250 (FG frame) molded case circuit breakers, the left accessory compartment is needed for the tripping solenoid included in the scope of supply. In the case of all other sizes, the tripping solenoid is integrated in the release unit and the left and right accessory compartments can be used for auxiliary switches, alarm switches and additional auxiliary releases.

The protection functions of the electronic trip units are ensured without additional auxiliary voltage. The overcurrent releases are supplied with energy via internal current transformers in the circuit breaker.

3. Overcurrent releases of the VL150X UL (DG frame) to VL1600 UL (PG frame) molded case circuit breakers

For parameterizing, the electronic overcurrent release must be activated. A load current amounting to at least 20 % of the relevant molded case circuit breaker's rated current $I_n$ is needed to do this. If this load current is not available, the necessary auxiliary energy can be supplied via a battery power supply. In the case of molded case circuit breakers that are connected to an active COM20 (PROFIBUS) or COM21 (Modbus) communication module (Release 2) for data transmission, the release is powered via the module.

| Abbreviations (functions) | | |
|---|---|---|
| **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 |

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## General data

### *VL150 UL (DG frame) to VL1600 UL (PG frame) overcurrent releases – functional overview*

| Article No. supplement | Release/model | Line protection | Starter protection | Generator protection | Function | Setting options | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | L[1] Overload protection | S[1] Short-circuit protection (short-time delayed) | | I[1] Short-circuit protection (instantaneous) | G[1] Ground-fault protection |
| | | | | | | $I_r = \times I_n$ | $I_{sd} = \times I_r$ | $t_{sd}$ [s] | $I_i = \times I_n$ | $I_g = \times I_n$ |
| KJ | M | -- | ✓ | -- | I | -- | -- | -- | 3 ... 6 | -- |
| KK | M | -- | ✓ | -- | I | -- | -- | -- | 4 ... 10 | -- |
| KL | M | -- | ✓ | -- | I | -- | -- | -- | 7 ... 16 | -- |
| KN | TM/525 | ✓ | -- | -- | LI | 1 | -- | -- | 5 ... 10 | -- |
| PB | ETU/555 | ✓ | -- | -- | LI | 0.4 ... 1 | -- | -- | 1.25 ... 11 | -- |
| PD | ETU/555 | ✓ | -- | -- | LIG | 0.4 ... 1 | -- | -- | 1.25 ... 11 | 0.4 ... 1[3] |
| PU | ETU/555 | ✓ | -- | ✓ | LSI | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 1.25 ... 11 | -- |
| PH | ETU/555 | ✓ | -- | ✓ | LSIG | 0.4 ... 1 | 1.5 ... 10 | 0 ... 0.5 | 1.25 ... 11 | 0.4 ... 1[3] |
| VH | LCD-ETU/586 | ✓ | -- | -- | LI, LSI | 0.4 ... 1 | 1.25 ... 10 | 0 ... 0.5 | 1.25 ... 11 | -- |
| VM | LCD-ETU/586 | ✓ | -- | -- | LSIG | 0.4 ... 1 | 1.25 ... 10 | 0 ... 0.5 | 1.25 ... 11 | 0.4 ... 1[2] |
| VJ | LCD-ETU/586 | ✓ | -- | -- | LSI G (alarm) | 0.4 ... 1 | 1.25 ... 10 | 0 ... 0.5 | 1.25 ... 11 | 0.4 ... 1[2] |

| Article No. supplement | Release/model | Thermal image | Communication-capable | Ground-fault protection | Number of poles | $I^2t$ (ON/OFF) | Time-lag class ($t_r$) | Thermal-magnetic releases | Magnetic releases | Electronic release | LCD display |
|---|---|---|---|---|---|---|---|---|---|---|---|
| KJ | M | -- | -- | -- | 3 | -- | -- | -- | ✓ | -- | -- |
| KK | M | -- | -- | -- | 3 | -- | -- | -- | ✓ | -- | -- |
| KL | M | -- | -- | -- | 3 | -- | -- | -- | ✓ | -- | -- |
| KN | TM/525 | ✓ | -- | -- | 3 | -- | -- | ✓ | -- | -- | -- |
| PB | ETU/555 | ✓ | ✓ | -- | 3 | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| PD | ETU/555 | ✓ | ✓ | ① | 3 | -- | 2.5 ... 30 | -- | -- | ✓ | -- |
| PU | ETU/555 | ✓ | ✓ | -- | 3 | ✓ | -- | -- | -- | ✓ | -- |
| PH | ETU/555 | ✓ | ✓ | ① | 3 | ✓ | -- | -- | -- | ✓ | -- |
| VH | LCD-ETU/586 | ✓ | ✓ | -- | 3 | ✓ | 2.5 ... 30 | -- | -- | ✓ | ✓ |
| VM | LCD-ETU/586 | ✓ | ✓ | ① / ② | 3 | ✓ | 2.5 ... 30 | -- | -- | ✓ | ✓ |
| VJ | LCD-ETU/586 | ✓ | ✓ | ① / ② | 3 | ✓ | 2.5 ... 30 | -- | -- | ✓ | ✓ |

Ground-fault protection
① Vectorial summation current formation (4-conductor system)
② Direct detection of ground-fault current in the neutral point of the transformer

1) Size dependent.
2) $t_g$ 0.1 s to 0.5 s.
3) $t_g$ 0.07 s to 0.4 s size-dependent

#### *Internal accessories (auxiliary switches, undervoltage releases, shunt releases)*

3VL molded case circuit breakers according to UL can be supplied completely equipped with internal accessories (e.g. auxiliary switches, undervoltage releases or shunt releases). Refer to the tables of Article No. supplements for details of possible versions.

#### *Fixed-mounted, plug-in or withdrawable version*

The fixed-mounted molded case circuit breaker is the basic version. Using the appropriate assembly kit, it can be changed to a plug-in or withdrawable version. This assembly kit contains blade contacts, a locking pin and terminal covers for the plug-in version. The assembly kit for the withdrawable version additionally includes side panels and a racking mechanism. Even when the masking frame is fitted, movement using the withdrawable unit's handle is possible while the door is closed.

#### *Operating mechanisms*

In the basic version, the 3VL molded case circuit breakers according to UL have a toggle lever as an operating mechanism. This also functions as an indicator of the switch position. The "Tripped" position is also displayed in addition to the "ON" and "OFF" positions.

The toggle lever goes to the "tripped" position when the internal tripping mechanism is activated by overcurrent tripping, e.g. on overload or short-circuit. Activation of an undervoltage release or shunt release will also cause the toggle lever to move to the "Tripped" position. The toggle lever must be moved to the "OFF/RESET" position before the molded case circuit breaker can be closed again. This enables reset of the internal tripping mechanism and reactivation of the molded case circuit breaker's main contacts (see figure).

A toggle lever extension is supplied with the VL 1200 UL (NG frame) and VL1600 UL (PG frame) molded case circuit breakers. For the VL400 UL (JG frame) to VL800 UL (MG frame) molded case circuit breakers, this accessory must be ordered separately if required.

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Front-operated rotary operating mechanisms

These operating mechanisms are designed for direct attachment to 3VL molded case circuit breakers according to UL and convert movement of the toggle lever from a linear to a rotary movement.

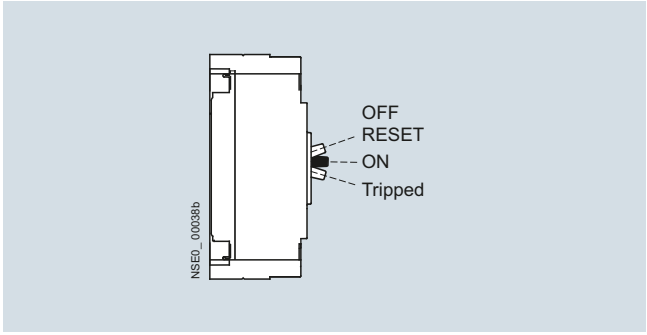
For a molded case circuit breaker with leading auxiliary switches, the undervoltage release can be connected to voltage in a leading fashion, as a result of which the molded case circuit breaker is ready for closing.

Door-coupling rotary operating mechanisms (complete operating mechanisms)

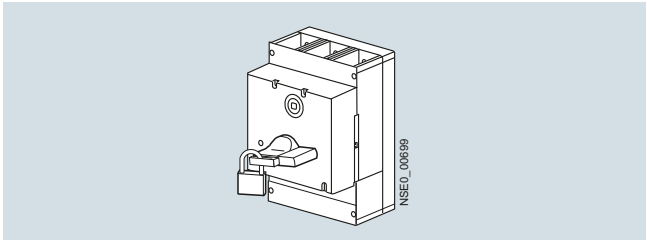
When the molded case circuit breakers are installed in control cabinets and distribution boards, door-coupling rotary operating mechanisms are available for doors and removable covers. These operating mechanisms are supplied as complete assembly kits, including an articulated-shaft mechanism.

With regard to switch positions and the "RESET" position, the same applies to rotary operating mechanisms as to toggle lever operating mechanisms. Indication is by the position of the operator lever (knob).

All 3VL molded case circuit breakers according to UL that feature these rotary operating mechanisms and corresponding terminal covers can be used as main disconnecting means.




Toggle lever operating mechanism positions




Rotary operating mechanism locked with padlock

***Motorized operating mechanisms***

VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers can be equipped with motorized operating mechanisms for operational remote closing and opening.

The motorized operating mechanisms for VL150X UL (CG frame) to VL800 UL (MG frame) molded case circuit breakers have a spring energy store (for synchronization) with a maximum ON period of $t_E \leq 80$ ms.

Motorized operating mechanisms without spring energy store for remotely controlled ON and OFF switching are available for the VL1200 UL (NG frame) and VL1600 UL (PG frame) molded case circuit breakers.

All motorized operating mechanisms are always supplied with a locking device for padlocks. Moreover, optional safety locks for motorized operating mechanisms with stored energy mechanism are also available.

The locking devices can be used for electrical and mechanical blocking of the operating mechanism. All remote operating mechanisms are equipped with a manual operating possibility for maintenance purposes.

Optionally, the motorized operating mechanisms for VL150X UL (CG frame) to VL800 UL (MG frame) and also the motorized operating mechanisms for VL1200 UL (NG frame) and VL1600 UL (PG frame) are each internally equipped with a floating signaling contact (normally open) for the following functions:

- Querying the AUTO/Manual selector switch for VL150X UL (CG frame) to VL800 UL (MG frame)
- Operating the mechanical OFF/0 button

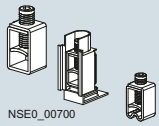
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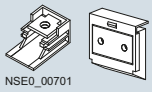
## General data



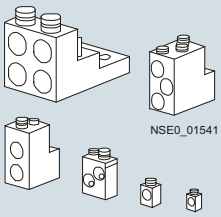
### *Main connections, basic equipment and options*




Box terminal
(for copper cable)




Terminals with screw connection
(metric/inch)




Circular conductor terminals/multiple feed-in terminals
(for Al/Cu cables)

Main connections

| Molded case circuit breaker | Connection overview and further options | | | | | | |
|---|---|---|---|---|---|---|---|
| | Box terminals | Screw terminals for flat connection | | Circular conductor terminal/multiple feed-in terminal | Rear terminals | Cable lug connection | Direct connection of bars possible (IEC-approved circuit breakers only) |
| | Cu only | with metric thread | with inch thread | Cu or Al | | | |
| VL150X UL (CG frame) | × | × | -- | × | × | -- | -- |
| VL150 UL (DG frame) | × | × | × | × | × | × | -- |
| VL250 UL (FG frame) | × | × | × | × | × | × | -- |
| VL400 UL (JG frame) | × | × | -- | ×[1) 2)] | × | × | -- |
| VL400X UL (LG frame) | -- | × | × | ×[1) 2)] | × | × | -- |
| VL800 UL (MG frame) | -- | × | × | ×[1)] | × | × | -- |
| VL1200 UL (NG frame) | -- | × | × | ×[1)] | × | × | -- |
| VL1600 UL (PG frame) | -- | × | × | ×[1)] | × | -- | -- |

× Available
-- Not available

[1)] Multiple feed-in terminals
[2)] Circular conductor terminal also available.

Note

See operating instructions for conductor cross-sections.

### *Auxiliary releases and auxiliary switches*

Undervoltage releases, leading auxiliary switches

If there is no voltage present, closing of the molded case circuit breaker is not possible. When no voltage is applied to the release, operating the circuit breaker leads to no-load switching.

Frequent no-load switching should be avoided to prevent shortening the molded case circuit breaker's useful life.

For a molded case circuit breaker with leading auxiliary switches, the undervoltage release can be connected to voltage in a leading fashion, as a result of which the molded case circuit breaker is ready for closing.

In the case of 3VL molded case circuit breakers according to UL, the leading auxiliary switch can be supplied together with the front-operated rotary operating mechanisms and complete operating mechanisms. For further information, see "Selection and ordering data" for accessories.

Shunt releases

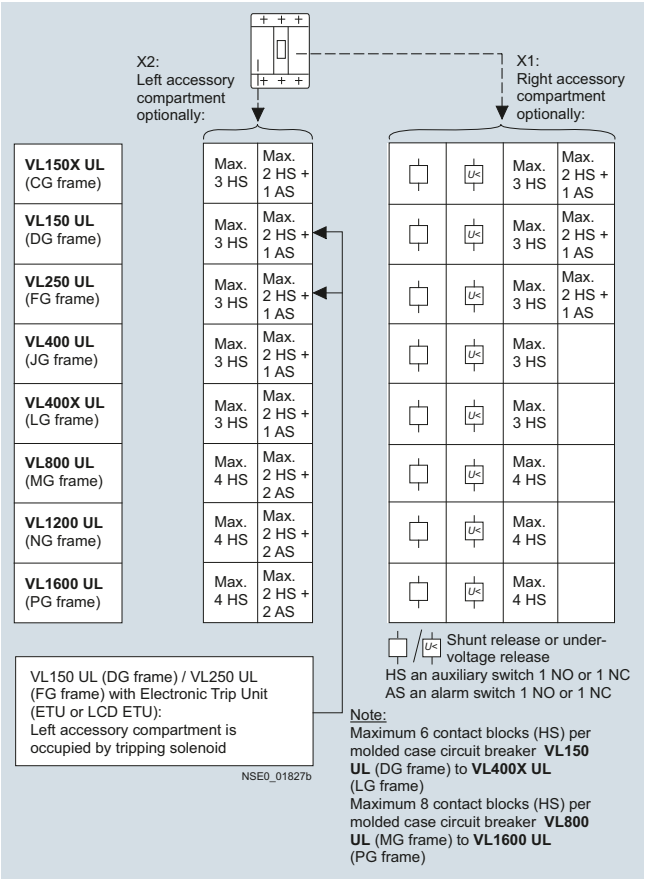
Shunt releases are used to remotely trip the molded case circuit breaker.

The shunt release's coil is designed for short-time operation. Coil deactivation is installed internally.

When a molded case circuit breaker is open, it is not permitted to apply a continuous opening command to the shunt release to prevent closing. A center tap is available as standard to test the coil for continuity.

Note

Before ordering, use the graphic on the right to check whether the required combination of shunt releases, undervoltage releases and auxiliary/alarm switches is feasible.




Equipment options for the insulated accessory compartments in the 3VL molded case circuit breakers according to UL

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Auxiliary switches

Auxiliary switches (HS) are used for signaling and controlling. The contacts of the auxiliary switch open and close along with the main contacts.

Alarm switches

Alarm switches (AS) operate when the molded case circuit breaker has been tripped due to an overcurrent situation, e.g. an overload or short-circuit. However, they are also activated when the molded case circuit breaker has been tripped by a shunt release or an undervoltage release.

Installation of internal accessories

The insulated accessory compartments in the molded case circuit breakers for installation of internal accessories (auxiliary releases and auxiliary/alarm switches) are designated X1, X2 and X4.

Equipment of the molded case circuit breaker with internal accessories and the possibility of combination with auxiliary releases and auxiliary/alarm switches depend on the installation position and frame size of the molded case circuit breaker (see figure entitled "Equipment options for the insulated accessory compartments in the 3VL molded case circuit breakers according to UL").

PLC control

The auxiliary and alarm switches are suitable for PLC control. These switching elements are from the Siemens 3SB3 program.

Leading auxiliary switches

The leading auxiliary switches from OFF to ON or from ON to OFF are available as retrofit kits and for Max Flex operating mechanisms.

## Function

### *Current limiting*[1)]

3VL molded case circuit breakers according to UL are designed on the principle of magnetic repulsion of the contacts. The contacts open before the expected peak value of the short-circuit current is reached. The current-limiting effects of the 3VL molded case circuit breakers according to UL protect the system components effectively against thermal and dynamic effects of the short-circuit current in the event of an electrical fault.

### *Ground-fault protection*

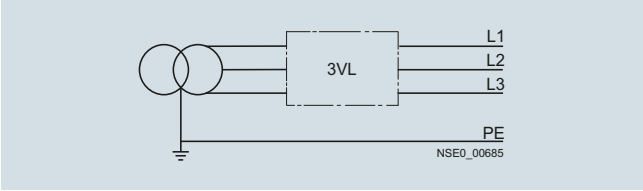
The ground-fault release "G" captures fault currents escaping to ground that can cause fires in the plant. Several molded case circuit breakers connected in series can be assigned graduated discrimination by means of the adjustable delay time.

The following measurement methods can be used to detect neutral conductor and ground-fault currents:

Vectorial summation current formation (measurement method 1)

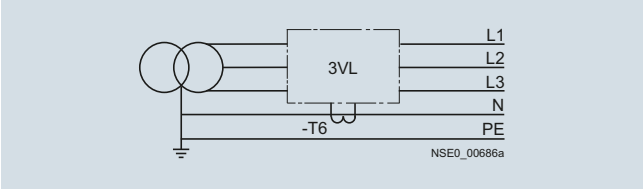
Ground-fault detection in balanced systems

The three phase currents are evaluated using vectorial summation current formation.




Ground-fault detection in unbalanced systems

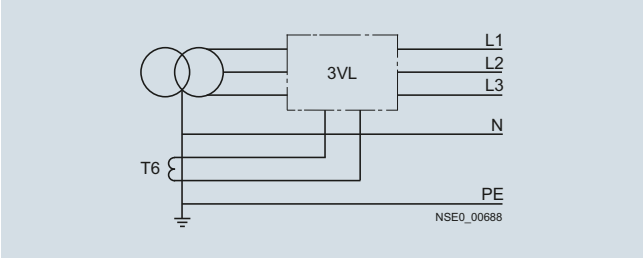
The neutral conductor current is measured directly and, in the case of the 3-pole circuit breakers, is only evaluated for ground-fault protection.
The overcurrent release calculates the ground-fault current using the vectorial summation of the three phase currents and the neutral conductor current.




3-pole molded case circuit breaker, current transformer in neutral conductor

Direct detection of the ground-fault current via a current transformer at the grounded star point of the transformer (measurement method 2)

The current transformer is installed directly at the grounded neutral point of the transformer.




3-pole molded case circuit breaker, current transformer at the grounded star point of the transformer

Transformer protection

The 3VL molded case circuit breakers according to UL protect power distribution systems in the event of overload and short-circuit as from the low-voltage side of the infeed transformer. The resulting requirements for current and/or time-based discrimination are fulfilled reliably by 3VL molded case circuit breakers according to UL for line protection – equipped with thermal-magnetic (TM) or electronic trip units (ETU or LCD ETU).

[1)] Not current-limiting in terms of "Current limiting according to UL 489".

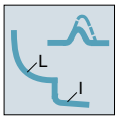
© Siemens AG 2016







***Thermal-magnetic releases (TM)***

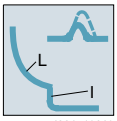


NSE0_00689

Application: line protection – TM, LI/LIN function

Overload protection, non-adjustable, short-circuit protection, non-adjustable, see "Selection and ordering data" for VL150X UL (CG frame), integrated releases in the circuit breaker enclosure;

KM version.



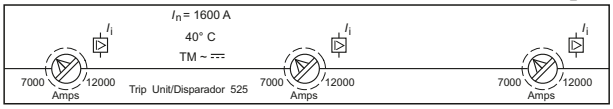
I201_19069

Application: line protection – TM/model 525, LI/LIN function

Overload protection, non-adjustable, short-circuit protection, adjustable $I_i$ = 5 to 10 × $I_n$[1], for VL150 UL (DG frame) to VL1600 UL (PG frame);

KN version

NSE0_01828





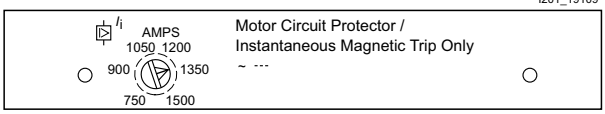
NSE0_00707

Application: starter protection – M, I function

Short-circuit protection, adjustable $I_i$ = 3 to 16 × $I_n$[1], for VL150 UL (DG frame) to VL1200 UL (NG frame);

KJ, KK, KL versions.

I201_19109





NSE0_00708

Application: switch disconnectors in molded case circuit breaker design – M, I function (for intrinsic protection)

Short-circuit protection, non-adjustable

KE version

[1] Size-dependent, see "Selection and ordering data".

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2

### *Electronic Trip Units (ETUs)*

For types VL150 UL (DG frame) to VL1600 UL (PG frame)

General information:

- No auxiliary voltage required for release system
- All ETUs have a thermal image
- A flashing green LED indicates correct operation of the microprocessor
- Overload status ($I > 1.05 \times I_r$) is indicated by a permanently lit yellow LED (alarm)
- Integral self-test function
- Socket for battery power supply
- Communication link to PROFIBUS DP and Modbus RTU possible



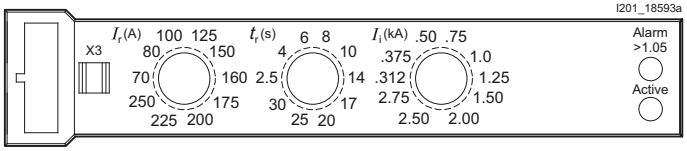
NSE0_00691

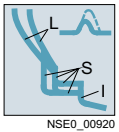
Application: line protection – model 555, LI function

Overload protection $I_r$ = 0.28 to 1 × $I_n$ [1], time-lag class $t_r$ = 2.5 to 30

Short-circuit protection (instantaneous) $I_i$ = 1.25 to 11 × $I_n$ [1];

PB version



NSE0_00920

Application: line and generator protection – model 555, LSI function

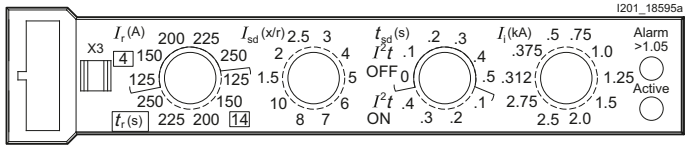
Overload protection $I_r$ = 0.4 to 1 × $I_n$ [1],

Short-circuit protection (short-time delay) $I_{sd}$ = 1.5 to 10 x $I_R$ [1], $t_{sd}$ = 0 to 0.5 s,

$I^2t$ on/off selectable

Short-circuit protection (instantaneous) $I_i$ = 1.25 to 11 × $I_n$ (fixed) [1]

PE version






NSE0_00693

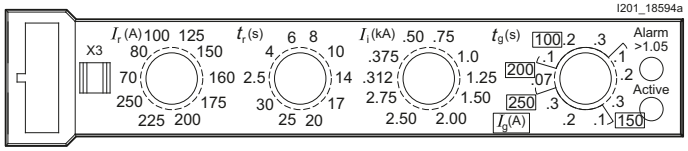
Application: line protection – model 555, LIG function

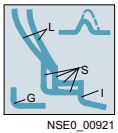
Overload protection $I_r$ = 0.28 to 1 × $I_n$ [1], time-lag class $t_r$ = 2.5 to 30

Short-circuit protection (instantaneous) $I_i$ = 1.25 to 11 × $I_n$ [1]

Ground-fault protection:
Measurement method No. 1:
($G_R$) vectorial summation current formation of the currents in the three phases and the neutral conductor (4-wire systems); $I_g$ = 0.4 to 1 × $I_n$ [1]

PD version



NSE0_00921

Application: line and generator protection – model 555, LSIG function

Overload protection $I_r$ = 0.4 to 1 × $I_n$ [1],

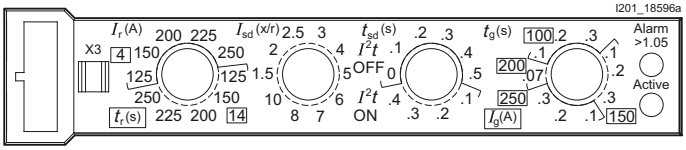
Short-circuit protection (short-time delay) $I_{sd}$ = 1.5 to 10 x $I_r$ [1], $t_{sd}$ = 0 to 0.5 s,

$I^2t$ on/off selectable

Short-circuit protection (instantaneous) $I_i$ = 1.25 to 11 × $I_n$ [1]

Ground-fault protection:
Measurement method No. 1:
($G_R$) vectorial summation current formation of the currents in the three phases and the neutral conductor (4-wire systems); $I_g$ = 0.4 to 1 × $I_n$ [1]

PH version




[1] Size-dependent, see "Selection and ordering data".

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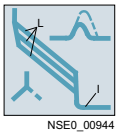
## General data



### *Electronic Trip Units with LCD (LCD ETU)*

General information:

- No auxiliary voltage required for release system
- Current display
- An illuminated green LCD display indicates correct operation of the microprocessor
- Overload status ($I$ > 105 % $I_r$) is indicated by "Overload" on the LCD display
- Direct, user-friendly, menu-driven setting of the absolute values of the protection parameters in the ampere values via keys
- Integral self-test function
- Socket for battery power supply
- Communication link to PROFIBUS DP and Modbus RTU possible



NSE0_00944

Application: line protection – model 586, LSI function

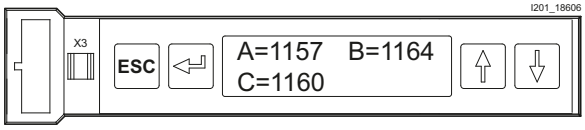
Overload protection $I_r$ = 0.4 to 1 × $I_n$,
time-lag class $t_r$ = 2.5 to 30

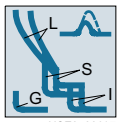
Thermal image selectable on/off

Short-circuit protection (short-time delay)
$I_{sd}$ = 1.25 to 10 x $I_R$[1], $t_{sd}$ = 0 to 0.5 s,
$I^2t$ on/off selectable

Short-circuit protection (instantaneous)
$I_i$ = 1.25 to 11 × $I_n$[1]

VH version



NSE0_00697

Application: line protection – model 586, LSIG function

Overload protection $I_r$ = 0.4 to 1 x $I_n$,
time-lag class $t_r$ = 2.5 to 30

Thermal image selectable on/off

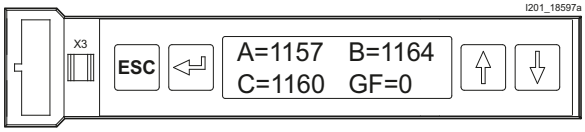
Short-circuit protection (short-time delay)
$I_{sd}$ = 1.25 to 10 x $I_R$[1], $t_{sd}$ = 0 to 0.5 s,
$I^2t$ on/off selectable

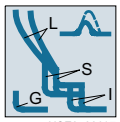
Short-circuit protection (instantaneous)
$I_i$ = 1.25 to 11 × $I_n$[1]

Ground-fault protection: Measurement method No. 1:
($G_R$) vectorial summation current formation of the currents in the three phases and the neutral conductor (4-wire systems);
$I_g$ = 0.4 to 1 × $I_n$[1].

Measurement method No. 2:
($G_{GND}$) direct measurement of the ground-fault current using a current transformer, $I_g$ = 0.4 to 1 × $I_n$,
$t_g$ = 0.1 to 0.5 s.

VM version



NSE0_00697

Application: line protection – model 586, LSI G (alarm) function

Overload protection $I_r$ = 0.4 to 1 x $I_n$,
time-lag class $t_r$ = 2.5 to 30

Thermal image selectable on/off

Short-circuit protection (short-time delay)
$I_{sd}$ = 1.25 to 10 x $I_R$[1], $t_{sd}$ = 0 to 0.5 s,
$I^2t$ on/off selectable

Short-circuit protection (instantaneous)
$I_i$ = 1.25 to 11 × $I_n$[1]

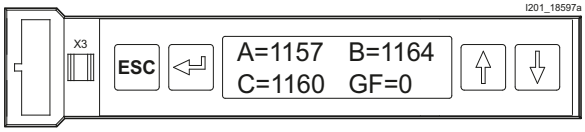
Ground-fault protection:

Measurement method No. 1:
($G_R$) vectorial summation current formation of the currents in the three phases and the neutral conductor (4-wire systems);
$I_g$ = 0.4 to 1 × $I_n$[1].

Measurement method No. 2:
($G_{GND}$) direct measurement of the ground-fault current using a current transformer, $I_g$ = 0.4 to 1 × $I_n$,
$t_g$ = 0.1 to 0.5 s.

If a ground fault is detected, the LCD ETU only issues an alarm, without tripping the circuit breaker. This alarm is displayed direct on the display and/or is communicated to higher-level systems via PROFIBUS DP/Modbus RTU.

VJ version




[1] Size-dependent, see "Selection and ordering data".

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## Configuration

### *Communication*

All 3VL molded case circuit breakers according to UL 489 with electronic trip unit (ETU) are communication-capable. To this end, the molded case circuit breaker's ETU is connected to a COM20 or COM21 communication module by means of a cable. The COM20 module (Release 2) supports the PROFIBUS DP protocol, while the COM21 module (Release 2) enables data transfer via Modbus RTU.

A communication kit – COMKIT 3 to 8 – is needed to connect the 3VL molded case circuit breaker (see page 2/271).

The COMKITs consists of a connecting cable including a protective cover and also one alarm and auxiliary switch each for installation in the molded case circuit breaker.[1] These are also connected to the electronic trip unit and signal the ON/OFF/TRIPPED circuit breaker status to the electronic trip unit.

The communication modules enable activation and deactivation of an optional motorized operating mechanism.

| | **Data transmission through COM20/COM21 (Release 2)** |
|---|---|
| **Data transferred** | |
| **Commands** | |
| Closing or opening | ✓ |
| Deleting alarm and tripping operation buffer and also maintenance information | ✓ |
| **Operating states**[2] | |
| ON or OFF status trip position | ✓ |
| **Event messages** | |
| Tripped messages with tripping current | ✓ |
| Alarms (e.g. overload, phase unbalance current, etc.) | ✓ |
| Threshold violation (e.g. phase currents) | ✓ |
| **Measured values** | |
| Phase currents and neutral conductor current | ✓ |
| **Parameter values** | |
| Reading and writing | ✓ |
| **Maintenance information** | |
| (e.g. number of trips, number of switching operations) | ✓ |
| **Data for device identification** | ✓ |
| **Clock synchronization** | ✓ |

✓ Available

| **Function** | **COM20/21 (Release 2) module with overcurrent release version** | |
|---|---|---|
| | ETU | LCD ETU |
| **Functions of communication components** | | |
| Transfer of the operating state (ON, OFF, tripped, warnings, tripped causes, event log, etc.) to the PROFIBUS | ✓ | ✓ |
| Display of measured values (current only) and parameters in the release, modifying parameters via the display | -- | ✓[3] |
| Transferring the maximum value of the actual current in % | ✓ | ✓ |
| Transferring the individual current phase currents | ✓ | ✓ |
| Transferring PROFIBUS identification data | ✓ | ✓ |
| Reading protection parameters via PROFIBUS/Modbus | ✓ | ✓ |
| Reading and setting protection parameters via PROFIBUS/Modbus | -- | ✓ |

✓ Function available

Function can optionally be adopted by several trip units.

-- Function not available

1) Only an alarm switch is included with the COMKITs 3 and 6 because the auxiliary switch in the case of DG and FG frame sizes of the 3VL molded case circuit breakers is already included in the magnetic release (Maglatch).

2) Only in the case of built-in auxiliary switches connected to COM20/21 (Release 2)

3) COM20/21 not required

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## General data

2

### *Switching direct current*

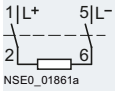
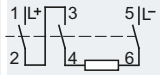
The VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers for line protection with thermal-magnetic releases, for starter combinations, and for non-automatic air circuit breaker versions are also suitable for switching and protecting direct current.

The maximum permitted DC voltage for each conducting path needs to be taken into account for DC switching applications, however.

Series connection of 2 to 3 conducting paths is required for voltages in excess of 250 V in the case of VL150 UL (DG frame) to VL1600 UL (PG frame).

The following circuits are recommended since the current must flow through all conducting paths in order to conform to the thermal tripping characteristic curves.

The threshold values of the instantaneous short-circuit release ("I" release) increase by 30 to 40 %.

| **Recommended circuit/maximum permitted DC voltage $U_e$** | | **Remarks** |
|---|---|---|
| Circuit A | Circuit B | |
| **For 3-pole molded case circuit breakers** | | |
| 250 V DC<br><br><br>NSE0_01861a | 500 V DC rated / 600 V DC max. for use in ungrounded UPS DC applications (according to UL 489, Supplement SC)<br><br><br>NSE0_00741a | 2-pole switching (ungrounded system) |

## Technical specifications

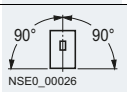
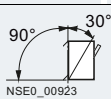
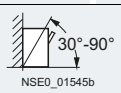
| **Type** | | | | **VL150X UL** CG frame | **VL150 UL** DG frame | **VL250 UL** FG frame | **VL400 UL** JG frame | **VL400X UL** LG frame | **VL800 UL** MG frame | **VL1200 UL** NG frame | **VL1600 UL** PG frame |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Max. rated current $I_n$** | | | A | 150 | 150 | 250 | 400 | 600 | 800 | 1200 | 1600 |
| **Rated insulation voltage $U_i$ only in accordance with IEC 60947-2** | | | | | | | | | | | |
| Main conducting paths | | AC | V | 800 | | | | | | | |
| Auxiliary circuits | | AC | V | 690 | | | | | | | |
| **Rated operational voltage $U_e$** | | | | | | | | | | | |
| NEMA | 50/60 Hz | AC | V | 600 | | | | | | | |
| | | DC[1] | V | 250 | [2] | | | | | | |
| IEC | 50/60 Hz | AC | V | 690 | | | | | | | |
| **Utilization category** | | | | A | | | | | | | |
| **Permissible ambient temperature** | | | | | | | | | | | |
| Operation: 0 °C ... +70 °C for devices with TM release (cf. IEC system manual) | | | °C | –25 ... +70 | | | | | | | |
| Storage | | | °C | –40 ... +80 | | | | | | | |
| **Permissible load at different ambient temperatures** Directly next to the molded case circuit breaker, referred to the molded case circuit breaker's rated current | | | | | | | | | | | |
| • Molded case circuit breaker for line protection | TM/ETU | up to 40 °C | % | 100 | 100/100 | | | | 100/100 | | 100/100 |
| | TM/ETU | at 50 °C | % | 93 | 93/100 | | | | 94/100 | | 92/100 |
| | TM/ETU | at 60 °C | % | 86 | 86/95 | | | | 88/95 | | 83/95 |
| | TM/ETU | at 70 °C | % | 79 | 79/80 | | | | 82/80 | | 75/80 |
| • Molded case circuit breaker for starter combinations and non-automatic air circuit breakers | | up to 40 °C | % | 100 | | | | | | | |
| | | at 50 °C | % | 100 | | | | | | | |
| | | at 60 °C | % | 93 | | | | | | | |
| | | at 70 °C | % | 86 | | | | | | | |
| **Weight data of 3-pole molded case circuit breakers** | | | | | | | | | | | |
| Basic circuit breaker | | | | | | | | | | | |
| • With thermal-magnetic release | | | kg | 2.5 | 2.2 | 2.3 | 5.7 | 9.0 | 14.0 | 21.8 | 32.8 |
| • With electronic trip unit | | | kg | -- | 2.4 | 2.5 | 5.9 | 9.3 | 16.0 | 25.0 | 31.3 |
| **Rated short-circuit breaking capacity** | | | | Rated short-circuit breaking capacity: see under "Overview" in table. | | | | | | | |

[1] DC rated data applies to thermal-magnetic releases only.

[2] 500 V DC rated / 600 V DC max. for use in ungrounded UPS DC applications (according to UL 489, Supplement SC)

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| Type | | | VL150X UL CG frame | VL150 UL DG frame | VL250 UL FG frame | VL400 UL JG frame | VL400X UL LG frame | VL800 UL MG frame | VL1200 UL NG frame | VL1600 UL PG frame |
|---|---|---|---|---|---|---|---|---|---|---|
| **Endurance** | Switching cycles | | 20000 | | | | 10000 | | 3000 | |
| **Electrical endurance** | Switching cycles | | 10000 | | | | 5000 | 3000 | 1500 | |
| **Max. switching frequency** | 1/h | | 120 | | | | 60 | | 30 | |
| **Connection types** | | | See "Main connections, basic equipment and options" | | | | | | | |
| **Connection cross-sections for stranded cables** | | | | | | | | | | |
| Box terminal (Cu) | AWG/kcmil | | 1 x (14 ... 1/0) | 1 x (8 ... 1/0) | 1 x (3 ... 250) | 1 x (1/0 ... 600) | -- | | | |
| | $mm^2$ | | 1 x (2.5 ... 50) | 1 x (10 ... 50) | 1 x (35 ... 120) | 1 x (70 ... 300) | -- | | | |
| Circular conductor terminal (Cu/Al) | AWG/kcmil | | 1 x (6 ... 3/0) | | 1 x (4 ... 350) | 1 x Cu: 3/0 ... 600 Al: 250 ... 750 | | -- | | |
| | $mm^2$ | | 1 x (16 ... 70) | | 1 x (25 ... 150) | 1 x Cu: 95 ... 300 Al: 150 ... 300 | | -- | | |
| Circular conductor terminal with terminal cover (Cu/Al)<br>• Terminal with auxiliary conductor connection up to 0.5 A<br>• Aluminium terminals with control cable connection | AWG/kcmil | | -- | 1 x (6 ... 300) | -- | | | | | |
| | $mm^2$ | | -- | 1 x (16 ... 150) | -- | | | | | |
| Multiple feed-in terminal (Cu/Al) | AWG/kcmil | | -- | | | 2 x (3/0 ... 250) | 2 x (2 ... 600) | 2 x (500 ... 750) | -- | |
| | $mm^2$ | | -- | | | 2 x (95 ... 120) | 2 x (35 ... 300) | 2 x 300 | -- | |
| | AWG/kcmil | | -- | | | | | 3 x (1/0 ... 500) | 3 x (500 ... 750) | -- |
| | $mm^2$ | | -- | | | | | 3 x (70 ... 240) | 3 x 300 | -- |
| | AWG/kcmil | | -- | | | | | -- | 4 x (1/0 ... 500) | -- |
| | $mm^2$ | | -- | | | | | -- | 4 x (70 ... 240) | -- |
| | AWG/kcmil | | -- | | | | | -- | | 4 x (600 ... 750) |
| | $mm^2$ | | -- | | | | | -- | | 4 x 300 |
| Multiple feed-in terminal with terminal cover<br>• Terminal with auxiliary conductor connection up to 0.5 A<br>• Aluminium terminals with control cable connection | AWG/kcmil | | -- | | | 2 x (2 ... 600) | -- | | | |
| | $mm^2$ | | -- | | | 2 x (35 ... 300) | -- | | | |
| Direct connection of busbars (Cu/Al, for IEC only) | mm | | 17 x 7 | 22 x 7 | 24 x 7 | 32 x 10 | 32 x 10 | 2 x 40 x 10 | 2 x 50 x 10 | 3 x 60 x 10 |
| Screw for connection with screw terminal, metric | | | M 6 | | M 8 | | M10 | M 8 | | |
| | inch | | -- | 10-32 UNF | 5/16 | -- | 3/8 | 5/16 | | |
| **Power losses per molded case circuit breaker at max. rated current** | | | | | | | | | | |
| Line protection | TM | W | 17 ... 36 | 15 ... 48 | 32 ... 80 | 60 ... 175 | 85 ... 230 | 194 ... 269 | 150 ... 204 | 204 ... 329 |
| Line protection | ETU or LCD ETU | W | -- | 6 ... 40 | 11 ... 60 | 38 ... 90 | 71 ... 160 | 140 ... 250 | 93 ... 210 | 146 ... 260 |
| For starter combinations or non-automatic air circuit breakers | | W | 36 | 40 | 60 | 90 | 160 | 250 | 210 | 260 |
| **Permissible mounting position**[1] | | |  NSE0_00026 |  NSE0_00923 |  NSE0_01545b [2] | | | | | |

[1] For VL800 UL (MG frame) to VL1600 UL (PG frame) molded case circuit breakers with withdrawable unit frame in lateral installation position. Adapter set on request.

[2] Permissible current load factor 0.9; with internal accessories only.

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# Molded Case Circuit Breakers

## 3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

### General data

| Type | | | VL150X UL CG frame | VL150 UL DG frame | VL250 UL FG frame | VL400 UL JG frame | VL400X UL LG frame | VL800 UL MG frame | VL1200 UL NG frame | VL1600 UL PG frame |
|---|---|---|---|---|---|---|---|---|---|---|
| **Auxiliary switches and alarm switches** | | | | | | | | | | |
| **Conventional free-air thermal current $I_{th}$** | | A | 10 | | | | | | | |
| **Rated making capacity** | | A | 10 | | | | | | | |
| **AC** | | | | | | | | | | |
| Rated operational voltage | | V | 24 | 48 | 110 | 230 | 400 | 600 | -- | |
| Rated operating current | AC-12 | A | 10 | | | | | | -- | |
| | AC-15 | A | 6 | | | | 3 | 1 | -- | |
| **DC** | | | | | | | | | | |
| Rated operational voltage | | V | 24 | 48 | 110 | 230 | -- | | | |
| Rated operating current | DC-12 | A | 10 | 5 | 2.5 | 1 | -- | | | |
| | DC-13 | A | 3 | 1.5 | 0.7 | 0.3 | -- | | | |
| **Back-up fuse/miniature circuit breaker** | | A | 10 TDz / 10 | | | | | | | |
| **Leading auxiliary switch in rotary mechanism** | | | | | | | | | | |
| Rated thermal current $I_{th}$ | | A | 2 | | | | | | | |
| Rated making capacity | | A | 2 (ind. 0.5) | | | | | | | |
| Rated operational voltage | | V AC | 230 | | | | | | | |
| Rated operating current | | A | 2 | | | | | | | |
| Rated breaking capacity, inductive, p.f. = 0.7 | | A | 0.5 | | | | | | | |
| Rated breaking capacity | | A | 2 | | | | | | | |
| Quick-response short-circuit fuse | | A | 2 | | | | | | | |
| **Position signaling switches** | | | | | | | | | | |
| Rated thermal current $I_{th}$ | | A | 16 | | -- | | | | | |
| Rated making capacity | | A | 16 | 10 | -- | | | | | |
| Rated operational voltage | | V AC | 250 | 400 | -- | | | | | |
| Rated operating current | | A | 16 | 10 | -- | | | | | |
| Rated breaking capacity, inductive, p.f. = 0.7 | | A | 4 | | -- | | | | | |
| Rated breaking capacity | | A | 16 | 10 | -- | | | | | |
| Quick-response short-circuit fuse | | A | 16 | 10 | -- | | | | | |

| Release | | | Family 1: VL150X UL (CG frame) to VL400X UL (LG frame) | Family 2: VL800 UL (MG frame) to VL1600 UL (PG frame) |
|---|---|---|---|---|
| **Undervoltage releases** | | | | |
| Response voltage: | | | | |
| • Release (circuit breaker trips) | | V | 0.35 ... 0.70 × $U_s$ | 0.35 ... 0.70 × $U_s$ |
| • Pick-up (circuit breaker can be switched on) | | V | 0.85 ... 1.1 × $U_s$ | 0.85 ... 1.1 × $U_s$ |
| Power consumption (continuous operation) at: | | | | |
| • 24 V AC 50/60 Hz[1)] | | VA | 1.4 | -- |
| • 110 ... 127 V AC 50/60 Hz | | VA | 1.0 | 1.8 |
| • 220 ... 250 V AC 50/60 Hz | | VA | 1.0 | 1.8 |
| • 208 V AC 50/60 Hz | | VA | 1.0 | 1.8 |
| • 277 V AC 50/60 Hz | | VA | 1.0 | 1.8 |
| • 380 ... 415 V AC 50/60 Hz | | VA | 1.0 | 1.8 |
| • 440 ... 480 V AC 50/60 Hz | | VA | 1.0 | 1.8 |
| • 500 ... 525 V AC 50/60 Hz | | VA | 1.0 | -- |
| • 12 V DC | | W | 0.8 | 1.5 |
| • 24 V DC | | W | 0.8 | 1.5 |
| • 48 V DC | | W | 0.8 | 1.5 |
| • 60 V DC | | W | 0.8 | 1.5 |
| • 110 ... 127 V DC | | W | 0.8 | 1.5 |
| • 220 ... 250 V DC | | W | 0.8 | 1.5 |
| Max. opening time | | ms | 50 | 50 |
| **Shunt releases** | | | | |
| Response voltage: | | | $U_s$ | $U_s$ |
| Pick-up (switch tripped) | | V | 0.7 ... 1.1 | 0.7 ... 1.1 |
| Power consumption **(short-time)** at: | | | | |
| • 24 V AC 50/60 Hz | | VA | 310 | 330 |
| • 48 ... 60 V AC 50/60 Hz | | VA | 335 ... 465 | 380 ... 460 |
| • 110 ... 127 V AC 50/60 Hz | | VA | 470 ... 630 | 330 ... 430 |
| • 208 ... 277 V AC 50/60 Hz | | VA | 585 ... 1000 | 520 ... 800 |
| • 380 ... 600 V AC 50/60 Hz | | VA | 180 ... 500 | 228 ... 750 |
| • 24 V DC | | W | 360 | 385 |
| • 48 ... 60 V DC | | W | 380 ... 590 | 480 ... 720 |
| • 110 ... 127 V DC | | W | 506 ... 680 | 362 ... 424 |
| • 220 ... 250 V DC | | W | 470 ... 580 | 418 ... 476 |
| Max. opening time | | ms | 50 | 50 |
| Max. in-service period | | s | interrupts automatically, less than 10 ms | interrupts automatically, less than 10 ms |

[1)] On request.

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| Type | | VL150X UL CG frame | VL150 UL DG frame | VL250 UL FG frame | VL400 UL JG frame | VL400X UL LG frame | VL800 UL MG frame | VL1200 UL NG frame | VL1600 UL PG frame |
|---|---|---|---|---|---|---|---|---|---|
| **Motorized operating mechanism** | | -- | | | | | | x | |
| Motorized operating mechanism with spring energy store (synchronizable) | | x | | | | | | -- | |
| Motorized operating mechanism | | | | | | | | | |
| Power consumption | VA/W | -- | | | | | | < 250 | |
| Rated control supply voltage $U_s$ | 50/60Hz V AC | -- | | | | | | 42 ... 48/60 | 110 ... 127/220 ... 250 |
| | V DC | -- | | | | | | 24 / 42 ... 48/60 | 110 ... 127/220 ... 250 |
| Fusible link (operational class gG, slow-blow characteristic) | A | -- | | | | | | 4 | 2 |
| Miniature circuit breakers | A | -- | | | | | | 4 | 2 |
| Primary operating range | V | -- | | | | | | 0.85 ... 1.1 x $U_s$ | |
| Min. command duration $U_s$ | ms | -- | | | | | | 50 | |
| Max. command duration, connection-dependent [1] | | Jog/pushbutton or continuous command | | | -- | | | Jog/pushbutton or continuous command | |
| Total make-time | s | -- | | | | | | < 5 | |
| Break-time | s | -- | | | | | | < 5 | |
| Interval between the commands OFF and ON | s | -- | | | | | | > 5 | |
| Interval between the commands ON and OFF | s | -- | | | | | | > 5 | |
| Max. permissible switching frequency | 1/h | -- | | | | | | 30 | |
| **Motorized operating mechanism with spring energy store (synchronizable)** | | | | | | | | | |
| Power consumption | VA/W | < 100 | | | < 200 | < 250 | | -- | |
| Rated control supply voltage $U_s$ | 50/60Hz V AC | 42 ... 48 / 60 | | | 110 ... 127 / 220 ... 250 | | | -- | |
| | V DC | 24 / 42 ... 48 / 60 | | | 110 ... 127 / 220 ... 250 | | | -- | |
| Fusible link (operational class gG, slow-blow characteristic) | A | 4 | | | 2 | | | -- | |
| Miniature circuit breakers | A | 4 | | | 2 | | | -- | |
| Primary operating range | V | 0.85 ... 1.1 x $U_s$ | | | | | | -- | |
| Min. command duration $U_s$ | ms | 50 | | | | | | -- | |
| Max. command duration, connection-dependent [1] | | Jog/pushbutton or continuous command | | | | | | -- | |
| Total make-time | ms | < 100 | | | | | | -- | |
| Break-time | s | < 5 | | | | | | -- | |
| Interval between the commands OFF and ON | s | > 5 | | | | | | -- | |
| Interval between the commands ON and OFF | s | > 1 | | | | | | -- | |
| Max. permissible switching frequency | 1/h | 120 | | | | 60 | | -- | |

x Available

-- Not available

[1] Changeover contact also permissible, but note the interval times between ON and OFF.

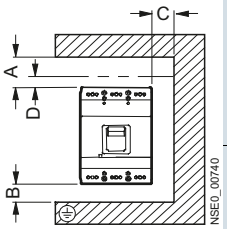
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## General data

***Space requirement above arc chutes, safety clearance (applicable to IEC application)***






**Arcing spaces**
Minimum clearances from adjacent grounded parts and non-insulated live parts.

Inside the arcing space, bare conductors and bars must be insulated with phase barriers.

For bare conductors and bars outside the arcing space, the specific mounting instructions for the different frame sizes must be observed.

For mounting instructions, see www.siemens.com/lowvoltage/product-support

**Space requirement above arcing spaces according to IEC 60947-2**

| Molded case circuit breaker | Breaking capacity | Minimum enclosure volume | A | | | B | C | D |
|---|---|---|---|---|---|---|---|---|
| | | | ≤ 415 V | >415 ... 690 V | >415 ... 690 V | ≤ 690 V | ≤ 690 V | ≤ 690 V |
| Type | | $m^3$ | without/with terminal cover | without terminal cover | with terminal cover | | | |
| VL150X UL (CG frame) | Standard<br>High<br>Very high | 0.011 | 35 | 70 | 35 | 25 | 25 | 35 |
| VL150 UL (DG frame) | Standard<br>High<br>Very high | 0.011 | 50 | 100 | 50 | 25 | 25 | 35 |
| VL250 UL (FG frame) | Standard<br>High<br>Very high | 0.015 | 50 | 100 | 50 | 25 | 25 | 35 |
| VL400 UL (JG frame) | Standard<br>High<br>Very high | 0.036 | 50 | 100 | 50 | 25 | 25 | 35 |
| VL400X UL (LG frame) | Standard<br>High<br>Very high | 0.18 | 50 | 100 | 50 | 25 | 25 | 35 |
| VL800 UL (MG frame) | Standard<br>High<br>Very high | 0.22 | 50 | 100 | 50 | 25 | 25 | 35 |
| VL1200 UL (NG frame) | Standard<br>High<br>Very high | 0.22 | 70 | 100 | 70 | 30 | 30 | 50 |
| VL1600 UL (PG frame) | Standard<br>High<br>Very high | 0.264 | 100 | 100 | 100 | 100 | 30 | 100 |

Definition of permissible safety clearances

Clearance between

A: molded case circuit breaker and busbars (uninsulated and grounded metal); terminal cover required above 600 V AC, 500 V DC

B: molded case circuit breaker terminal and lower panel

C: side of the molded case circuit breaker and side panels (uninsulated and grounded metal)

D: molded case circuit breaker and non-conductive parts with at least 3 mm thick insulation (insulator, insulated bar, painted plate)