© Siemens 2019

SIEMENS

SENTRON • SIVACON • ALPHA

Low-Voltage Power Distribution and Electrical Installation Technology

Molded Case Circuit Breakers

Catalog Extract LV 10

Edition 04/2019

siemens.com/lowvoltage

© Siemens 2019

Related catalogs

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

PDF (E86060-K8280-A101-A9-7600)
Print (E86060-K8280-A101-A6-7600)

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

PDF (E86060-K8280-E347-A2-7600)

Industrial Controls IC 10
SIRIUS

PDF (E86060-K1010-A101-A9-7600)

Industrial Communication IK PI
SIMATIC NET

E86060-K6710-A101-B8-7600

DELTA ET D1
Switches and Socket Outlets

PDF

SITRAIN
Training for Industry

www.siemens.com/sitrain

Catalog PDF / Contact

Catalog PDF
Digital versions of the catalogs are available in the Siemens Industry Online Support.

www.siemens.com/lowvoltage/catalogs

Contact
Your personal contact can be found in our Contacts Database at:

www.siemens.com/automation-contact

Industry Mall / TIA ST / CA 01

Industry Mall
Information and Ordering Platform on the Internet:

www.siemens.com/industrymall

Siemens TIA Selection Tool
for the selection, configuration and ordering of TIA products and devices

www.siemens.com/tst

Products for Automation and Drives CA 01
Interactive Catalog
Download

www.siemens.com/ca01download

Trademarks

All product designations may be registered trademarks or product names of Siemens AG or other supplying companies. Third parties using these trademarks or product names for their own purposes may infringe upon the rights of the trademark owners. Further information about low-voltage power distribution and electrical installation technology is available on the Internet at:

www.siemens.com/lowvoltage

Technical Support

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

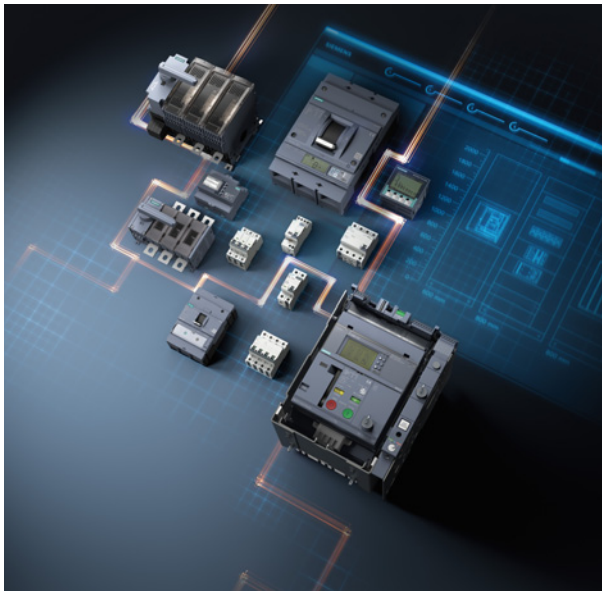
www.siemens.com/lowvoltage/support-request

© Siemens 2019

Low-Voltage Power Distribution and Electrical Installation Technology

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

SENTRON · SIVACON · ALPHA



Catalog LV 10 · 04/2019

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

Supersedes:
Catalog LV 10 · 10/2018

Refer to the Industry Mall for current prices:
www.siemens.com/industrymall

The products in this catalog can also be found in the Interactive Catalog CA 01:
www.siemens.com/ca01download

Please contact your local Siemens branch.

© Siemens AG 2019

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

Protection, Switching, Measuring and Monitoring Devices

Air Circuit Breakers 1
Molded Case Circuit Breakers 2
Miniature Circuit Breakers 3
Residual Current Protective Devices / Arc-Fault Detection Devices (AFDDs) 4
Fuse Systems 5
Overvoltage Protection Devices 6
Switch Disconnectors 7
Transfer Switching Equipment and Load Transfer Switches 8
Switching Devices 9
Transformers, Power Supply Units and Socket Outlets 10
Busbar Systems 11
Measuring Devices and Power Monitoring 12
Monitoring Devices 13
Terminal Blocks 14
Software 15

Switchboards and Distribution Systems

Switchboards 16
Busbar Trunking Systems 17
System Cubicles, System Lighting and System Air-Conditioning 18
Power Distribution Boards / Distribution Boards 19

Appendix 20

© Siemens 2019

Opening Information

Ordering notes

Overview

Ordering special versions

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

Ordering very small quantities

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

Explanations of Selection and ordering data

Standard delivery time (SD)

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

Price units (PU)

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

Packaging size (PS)

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

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

Price group (PG)

Each product is allocated to a price group.

Example

5TT3400

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

8US1923-5CA02

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

8WH9000-1GA00

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

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

Note:

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

Metal surcharges/export markings

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

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

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

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

© Siemens 2019

3VA molded case circuit breakers
2/2 General data
2/20 3VA1 molded case circuit breakers up to 1000 A, IEC
2/48 3VA2 molded case circuit breakers up to 1000 A, IEC
2/84 3VA molded case circuit breakers up to 1000 A – accessories, IEC
2/84 - Internal accessories
2/93 - Manual operators
2/100 - Motor operators NEW
2/103 - Connection technology
2/122 - Plug-in and draw-out technology
2/127 - Residual current devices
2/131 - Communication and testing/ commissioning devices
2/139 - Locking, blocking and interlocking systems
2/143 - Other
3VA27 molded case circuit breakers NEW
2/146 Introduction
2/155 Function overview of the electronic trip system
2/162 3-pole, fixed-mounted versions with toggle
2/165 3-pole, fixed-mounted versions with stored-energy operating mechanism
2/168 3-pole, withdrawable versions with toggle
2/171 3-pole, withdrawable versions with stored-energy operating mechanism
2/174 4-pole, fixed-mounted versions with toggle
2/177 4-pole, fixed-mounted versions with stored-energy operating mechanism
2/180 4-pole, withdrawable versions with toggle
2/183 4-pole, withdrawable versions with stored-energy operating mechanism
2/186 3-pole, fixed-mounted non-automatic air circuit breakers with toggle
2/187 3-pole, fixed-mounted non-automatic air circuit breakers with stored-energy operating mechanism
2/188 3-pole, withdrawable non-automatic air circuit breakers with toggle
2/189 3-pole, withdrawable non-automatic air circuit breakers with stored-energy operating mechanism
2/190 4-pole, fixed-mounted non-automatic air circuit breakers with toggle
2/191 4-pole, fixed-mounted non-automatic air circuit breakers with stored-energy operating mechanism
2/192 4-pole, withdrawable non-automatic air circuit breakers with toggle
2/193 4-pole, withdrawable non-automatic air circuit breakers with stored-energy operating mechanism
2/194 Options
2/200 Accessories and spare parts

Product discontinuation
3VL molded case circuit breakers up to 1600 A, IEC
2/212 Introduction
2/218 General data
2/222 3-pole
2/246 4-pole
2/267 Options
2/271 Accessories and spare parts

Ch. 11 **Busbar device adapters and device holders from 630 A to 1600 A**

Ch. 12 **4NC current transformers**

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

Ch. 13 **Residual current devices (MRCD)**

For further technical product information:

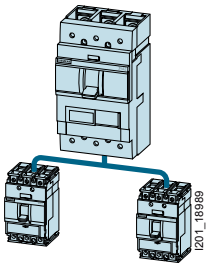
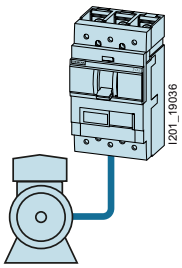
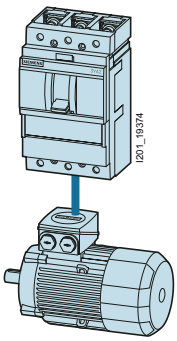
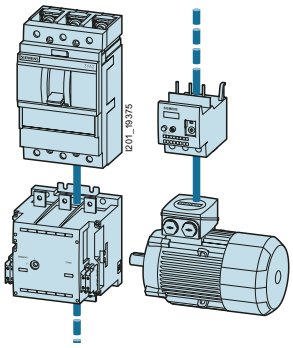
Siemens Industry Online Support:
www.siemens.com/lowvoltage/product-support

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

© Siemens 2019

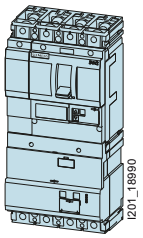
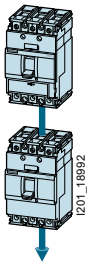
General data

Overview

Application	Page	3VA1	3VA2	Description	Standards
Line protection					
	2/20 ... 2/43 2/48 ... 2/77	✓	✓	The trip units for line protection are designed to provide ovherload and short-circuit protection for: • Cables • Leads • Non-motor loads	IEC / EN 60947-1, IEC / EN 60947-2
Generator protection					
	2/54 ... 2/61 2/70 ... 2/77	--	✓	The setting values of the trip units are matched to protecting generators.	IEC / EN 60947-1, IEC / EN 60947-2
Motor protection					
	2/80 ... 2/83	--	✓	The overload and short-circuit releases are designed for optimized protection and direct-on-line starting of induction 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. Are you IE3/IE4 ready?	IEC / EN 60947-1, IEC / EN 60947-2, IEC / EN 60947-4-1 IE3 ready
Protection for starter combinations (starter protection)					
	2/44 ... 2/45 2/80 ... 2/81	✓	✓	Starter combinations consist of: Molded case circuit breaker + contactor + overload relay. 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. Are you IE3/IE4 ready?	IEC / EN 60947-1, IEC / EN 60947-2, IEC / EN 60947-4-1 IE3 ready

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

© Siemens 2019

Application	Page	3VA1	3VA2	Description	Standards
Residual current device					
	2/127 ... 2/130	✓	✓	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					
	2/46	✓	--	Switch disconnectors are deployed: • As main disconnecting means • For on/off switching • For disconnection of loads • As switch disconnectors without overload and short-circuit protection The switch disconnectors comply with IEC / EN 60947-3.	IEC / EN 60947-1, IEC / EN 60947-3

© Siemens 2019

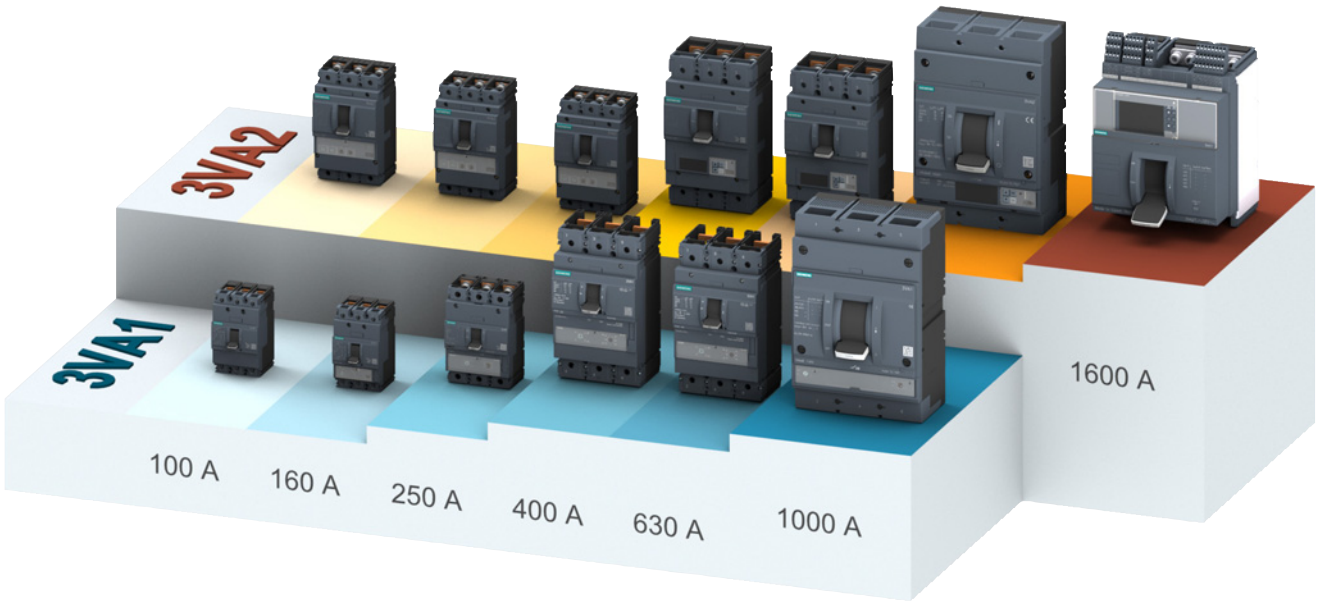
Sizes

The integrated 3VA portfolio consists of two different ranges of molded case circuit breakers in thirteen frame sizes. The 1600 A frame size of the 3VA2 molded case circuit breaker and the 400 A / 630 A / 1000 A of the 3VA1 molded case circuit breaker are new.

The 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 the 3VA molded case circuit breaker up to 1000 A together with quick and easy installation help to cut costs and save time.

The 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 to 1000 A NEW) The 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 1600 A and rated voltages up to 690 V AC, depending on the range and frame size.



Integrated system

When it comes to operation, functionality and installation, the 3VA range of molded case circuit breakers is a fully integrated system from 100 A to 1000 A. 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
- Uniform accessories (e.g. auxiliary switches, auxiliary releases, etc.)

3VA1 molded case circuit breakers

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

Features

The key features of the 3VA1 range 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 (up to 630 A), 3 or 4-pole breakers
  - 55 kA … 110 kA (at 1000 A), 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 DIN rails, as well as laterally mountable residual current devices (RCD310 (up to 160 A) and RCD510), and laterally mountable motor operators (MO310).

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 istallations up to 1000 A. It is suitable for use in three-phase networks, AC networks, 400 Hz applications, and with DC currents.

© Siemens 2019

3VA2 molded case circuit breakers up to size 1000 A

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

This range is designed for applications with increased requirements:

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

Features

- Compact dimensions
- 3 and 4-pole versions
- 6 sizes (up to 1000 A)
- Four breaking capacity classes from 55 kA … 150 kA (depending on size)
- 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
- Communication capability for ETUs of the 5-series and 8-series
- Depending on the ETU: integrated metering function for ETUs of the 8-series
- AC applications
- 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 (up to 630 A) and a draw-out version (up to 630 A).

A cover size of 70 mm (up to 630 A) for the door cut-out and a complete selection of breaking capacity classes from 55 kA to 150 kA (depending on size) 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

Selective contact system (up to 630 A)

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 ("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

3VA27 molded case circuit breakers, size 1600 A NEW

The 3VA27 molded case circuit breakers supplement the existing 3VA2 IEC portfolio with the very compact size 1600 A.

They have been designed for the following application scenarios:

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

Low space requirements

The 3VA27 molded case circuit breakers are extremely compact. 3-pole and 4-pole devices fit into a 400 mm wide switchboard panel. Two 3-pole 3VA27 circuit breakers can also be installed side by side in a 600 mm wide switchboard panel.

Reduced complexity

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

Modular design

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

Retrofittable modules for Electronic Trip Units

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

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

Communication/metering functions

The use of modern communication-capable molded case 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.

Note:

For information about the 3VA27 molded case circuit breaker, see from page 2/146 onwards.

© Siemens 2019

General data

3VA1 up to 1000 A

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

Breaking capacity		(B)	(N)	(S)	(N)	(S)	(M)	(N)	(S)	(M)	(N)	(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	55	36	55	85	36	55	85	100
380 - 415 V AC / 50/60 Hz	kA	16	25	36	5	6	6	25	36	55	25	36	55	70
440 V AC / 50/60 Hz	kA	8	16	25	--	--	--	--	--	--	16	25	36	55[1)]
500 V AC / 50/60 Hz	kA	5	5	7	--	--	--	--	--	--	7	7	10	10
690 V AC / 50/60 Hz	kA	5	5	7	--	--	--	--	--	--	7	7	10	10
125 V DC (1 switching pole)	kA	--	--	--	16	25	30	16	25	30	--	--	--	--
250 V DC (2 switching poles)	kA	25	36	55	--	--	--	36	55	85	36	55	85	100
500 V DC (3 switching poles)	kA	25	36	55	--	--	--	--	--	--	36	55	85	100
600 V DC (4 switching poles)	kA	8	16	25	--	--	--	--	--	--	16	25	36	55
Rated service 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	55	36	55	85	36	55	85	100
380 - 415 V AC / 50/60 Hz	kA	16	25	36	5	6	6	25	36	55	25	36	55	70
440 V AC / 50/60 Hz	kA	8	16	25	--	--	--	--	--	--	16	25	36	40[1)]
500 V AC / 50/60 Hz	kA	5	5	5	--	--	--	--	--	--	5	5	5	5
690 V AC / 50/60 Hz	kA	5	5	5	--	--	--	--	--	--	5	5	5	5
125 V DC (1 switching pole)	kA	--	--	--	16	25	30	16	25	30	--	--	--	--
250 V DC (2 switching poles)	kA	25	36	55	--	--	--	36	55	85	36	55	85	100
500 V DC (3 switching poles)	kA	25	36	55	--	--	--	--	--	--	36	55	85	100
600 V DC (4 switching poles)	kA	8	16	25	--	--	--	--	--	--	16	25	36	55

✓ Available -- Not available

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

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

© Siemens 2019

3VA1 up to 1000 A

3VA12	3VA13 NEW	3VA14 NEW	3VA15 NEW
3, 4	3, 4	3, 4	3, 4

3VA1 molded case circuit breakers for line protection, standard applications (IEC 60947-2)

250 A	400 A	630 A	1000 A
160 … 250	320 ... 400	500 ... 630	630 ... 1000
690	690	690	690
800	800	800	800
8	8	8	8
✓	✓	✓	Up to 500 V
0 ... 400	0 ... 400	0 ... 400	0 ... 400

(S)	(M)	(H)	(S)	(M)	(H)	(C)	(S)	(M)	(H)	(C)	(M)	(H)	(C)
55	85	100	55	85	100	200	55	85	100	200	85	110	200
36	55	70	36	55	70	110	36	55	70	110	55	85	110
25	36	36	*	*	*	*	*	*	*	*	*	*	*
10	15	15	*	*	*	*	*	*	*	*	*	*	*
7	10	10	7	7	10	10	7	7	10	10	25	35	35
--	--	--	--	--	--	--	--	--	--	--	--	--	--
55	85	100	8	16	25	25	8	16	25	25	--	--	--
55	85	100	8	16	25	25	8	16	25	25	--	--	--
25	36	55	8	16	25	25	8	16	25	25	--	--	--
55	85	100	55	85	100	200	55	85	100	200	85	110	150
36	55	70	36	55	70	110	36	55	70	110	55	85	110
25	36	36	*	*	*	*	*	*	*	*	*	*	*
10	10	10	*	*	*	*	*	*	*	*	*	*	*
5	5	5	5	5	6	6	5	5	6	6	19	19	19
--	--	--	--	--	--		--	--	--		--	--	--
55	85	100	8	16	25	25	8	16	25	25	--	--	--
55	85	100	8	16	25	25	8	16	25	25	--	--	--
25	36	55	8	16	25	25	8	16	25	25	--	--	--

* On request

© Siemens 2019

General data

3VA2 up to 630 A

Type		3VA20				3VA21				3VA22			
Number of poles		3, 4				3, 4				3, 4			
3VA2 for line protection, selectivity applications													
Electrical characteristics according to IEC 60947-2													
Size		100 A				160 A				250 A			
Rated operational current I_n at 50 °C ambient temperature	A	25 ... 100				25 ... 160				160 ... 250			
Rated operational voltage U_e 50/60 Hz AC	V	690				690				690			
Rated insulation voltage U_i	V	800				800				800			
Rated impulse withstand voltage U_{imp}	kV	8				8				8			
Use in IT networks		✓				✓				✓			
Frequency	Hz	50 … 60				50 … 60				50 … 60			
Breaking capacity		(M)	(H)	(C)	(L)	(M)	(H)	(C)	(L)	(M)	(H)	(C)	(L)
Rated ultimate short-circuit breaking capacity I_{cu} rms value, according to IEC 60947-2													
220 - 240 V AC / 50/60 Hz	kA	85	110	150	200	85	110	150	200	85	110	150	200
380 - 415 V AC / 50/60 Hz	kA	55	85	110	150	55	85	110	150	55	85	110	150
440 V AC / 50/60 Hz	kA	55	85	110	150	55	85	110	150	55	85	110	150
500 V AC / 50/60 Hz	kA	36	55	85	100	36	55	85	100	36	55	85	100
690 V AC / 50/60 Hz	kA	2	2	2	25	2.5	2.5	2.5	25	3	3	3	25
125 V DC (1 switching pole)	kA	--	--	--	--	--	--	--	--	--	--	--	--
250 V DC (2 switching poles)	kA	--	--	--	--	--	--	--	--	--	--	--	--
500 V DC (3 switching poles)	kA	--	--	--	--	--	--	--	--	--	--	--	--
600 V DC (4 switching poles)	kA	--	--	--	--	--	--	--	--	--	--	--	--
Rated service short-circuit breaking capacity I_{cs} rms value, according to IEC 60947-2													
220 - 240 V AC / 50/60 Hz	kA	85	110	150	200	85	110	150	200	85	110	150	200
380 - 415 V AC / 50/60 Hz	kA	55	85	110	150	55	85	110	150	55	85	110	150
440 V AC / 50/60 Hz	kA	55	85	110	150	55	85	110	150	55	85	110	150
500 V AC / 50/60 Hz	kA	36	55	85	100	36	55	85	100	36	55	85	100
690 V AC / 50/60 Hz	kA	2	2	2	18	2.5	2.5	2.5	18	3	3	3	18
125 V DC (1 switching pole)	kA	--	--	--	--	--	--	--	--	--	--	--	--
250 V DC (2 switching poles)	kA	--	--	--	--	--	--	--	--	--	--	--	--
500 V DC (3 switching poles)	kA	--	--	--	--	--	--	--	--	--	--	--	--
600 V DC (4 switching poles)	kA	--	--	--	--	--	--	--	--	--	--	--	--

✓ Available -- Not available

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

© Siemens 2019

3VA2 up to 630 A		3VA2 1000 A	3VA2 1600 A NEW
3VA23	3VA24	3VA25	3VA27
3, 4	3, 4	3, 4	3, 4
3VA2 for line protection, selectivity applications			
400 A	630 A	1000 A	1600 A
250 ... 400	400 ... 630	630 ... 1000	800 ... 1600
690	690	690	690
800	800	800	1000
8	8	8	8
✓	✓	✓	✓
50 … 60	50 … 60	50 … 60	50 … 60

(M)	(H)	(C)	(L)	(M)	(H)	(C)	(L)	(M)	(H)	(C)	(M)	(H)	(C)
85	110	150	*	85	110	150	*	85	110	200	100	150	200
55	85	110	*	55	85	110	*	55	85	110	55	85	110
55	85	110	*	55	85	110	*	*	*	*	55	85	100
36	55	85	*	36	55	85	*	*	*	*	36	55	85
5	5	5	*	6	6	6	*	25	35	35	25	36	50
--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--
85	110	150	*	85	110	150	*	85	110	150	100	150	200
55	85	110	*	55	85	110	*	55	85	110	55	85	110
55	85	110	*	55	85	110	*	*	*	*	55	85	100
36	55	65	*	36	55	85[1]	*	*	*	*	36	55	63
5	5	5	*	6	6	6	*	19	19	19	25	36	36
--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--

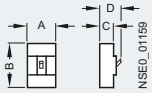
* On request

[1] Valid for I_n 400, 500 A;
however for I_n 630 A: I_{cs} = 65 kA

© Siemens 2019

General data

3VA1 up to 1000 A

Type				3VA10	3VA11	3VA11	3VA11
3VA1 molded case circuit breakers for line protection, standard applications (IEC 60947-2)							
Service life (make-break operations)							
Mechanical[1]				20000	20000	20000	20000
Electrical			380 ... 415 V	8000	8000	8000	8000
		$I_n/2$	380 ... 415 V	16000	16000	16000	16000
			690 V	8000	8000	8000	8000
Trip units	FTFM	TM210		✓	✓	✓	✓
	ATFM	TM220		--	--	--	✓
	ATAM	TM240		--	--	--	✓
3VA1 molded case circuit breakers for starter protection (IEC 60947-4-1 standards and specifications acc. to AC-1)							
Rated operational current I_n at 50 °C ambient temperature			A	--	--	--	32 … 125
Service life (make-break operations)							
Mechanical[1]				--	--	--	20000
Electrical			380 ... 415 V	--	--	--	8000
Trip units	AM	TM120M		--	--	--	✓
Switch disconnectors (IEC 60947-3)							
Electrical characteristics according to IEC 60947-3							
Number of poles				--	--	--	3, 4
Rated uninterrupted current I_u at 50 °C ambient temperature			A	--	--	--	63 … 160
Rated operational voltage U_e 50/60 Hz AC			V	--	--	--	690
Rated operational voltage U_e DC			V	--	--	--	500 (3p)/ 600 (4p)
Rated conditional short-circuit current I_q with upstream 3VA1 circuit breaker			kA	--	--	--	70 kA at 415 V
Permissible rated short-time withstand current I_{cw} 1 s			kA	--	--	--	2
Dimensions							
	A		mm	76.2 (3p)/ 101.6 (4p)	25.4	50.8	76.2 (3p)/ 101.6 (4p)
	B		mm	130	130	130	130
	C		mm	70	70	70	70
	D		mm	88	88	88	88
Weight	1-pole nut keeper kit		kg	--	0.35	--	--
	2-pole nut keeper kit		kg	--	--	0.60	--
	3-pole nut keeper kit		kg	0.90	--	--	0.90
	4-pole nut keeper kit		kg	1.15	--	--	1.15
General information							
Utilization category according to IEC 60947-2				A	A	A	A
Power and infeed direction				Top and bottom			
Isolating features according to IEC 60947				✓	✓	✓	✓

✓ Available -- Not available

1) Operating cycles NO-NC

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

© Siemens 2019

3VA1 up to 1000 A

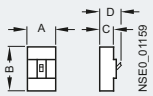
3VA12	3VA13 NEW	3VA14 NEW	3VA15 NEW
3VA1 molded case circuit breakers for line protection, standard applications (IEC 60947-2)			
20000	15000	15000	10000
8000	6000 12000	4000 12000	5000
5000	6000	On req.	
--	--	--	--
--	--	--	--
✓	✓	✓	✓
3VA1 molded case circuit breakers for starter protection (IEC 60947-4-1 standards and specifications acc. to AC-1)			
160, 200	250	400 ... 500	630 ... 800
20000	15000	15000	10000
8000	6000	4000	4000
✓	✓	✓	✓
Switch disconnectors (IEC 60947-3)			
3, 4	3, 4	--	--
250	400	--	--
690	690	--	--
500 (3p)/ 600 (4p)	500 (3p)/ 600 (4p)	500 (3p)/ 600 (4p)	--
70 kA at 415 V	On req.	--	--
3	4.8	--	--
Dimensions			
105 (3p)/ 140 (4p)	138 (3p)/184 (4p)	138 (3p)/184 (4p)	210 (3p)/280 (4p)
158 70 88	248 110 137	248 110 137	320 120 253
--	--	--	--
--	--	--	--
1.8	4.3	4.3	11.35
2.3	4.8	4.8	15.42
General information			
A	A	A/B[1)]	A
	Top and bottom	Top and bottom	Top and bottom
✓	✓	✓	✓

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

© Siemens 2019

General data

3VA2 up to 630 A

Type				3VA20	3VA21	3VA22
3VA2 molded case circuit breakers for line protection, standard applications						
Service life (make-break operations)						
Mechanical[1]				20000	20000	20000
Electrical			380 ... 415 V	12000	12000	10000
		I_n/2	380 ... 415 V	20000	30000	15000
			690	8000	8000	5000
Trip units	LI	ETU320		✓	✓	✓
	LIG	ETU330		✓	✓	✓
	ELISA LI	ETU340		--	✓	✓
	LSI	ETU350		✓	✓	✓
	LSI	ETU550/ETU850		✓	✓	✓
	LSIG	ETU560/ETU860		✓	✓	✓
	LSI	ETU650		--	--	--
	LSIG	ETU360		--	--	--
	LSIG	ETU660		--	--	--
3VA2 molded case circuit breakers for motor/starter protection (IEC 60947-4-1 standards and specifications acc. to AC-1)						
Rated operational current I_n at 50 °C ambient temperature			A	--	25 ... 100	160 ... 200
Service life (make-break operations)						
Mechanical[1]				--	20000	20000
Electrical			380 ... 415 V	--	12000	10000
Trip units						
	I	ETU310M		--	✓	✓
	LSI	ETU350M		--	✓	✓
	LSI	ETU550M		--	✓	✓
	LSIG	ETU860M		--	✓	✓
	LI	ETU320		--	--	--
	LSI	ETU350		--	--	--
	LSIG	ETU360		--	--	--
	LSIG	ETU650		--	--	--
	LSIG	ETU660		--	--	--
Dimensions						
	A		mm	105 (3p) / 140 (4p)	105 (3p) / 140 (4p)	105 (3p) / 140 (4p)
	B		mm	181	181	181
	C		mm	86	86	86
	D		mm	107	107	107
Weight	1-pole nut keeper kit		kg	--	--	--
	2-pole nut keeper kit		kg	--	--	--
	3-pole nut keeper kit		kg	2.29	2.29	2.41
	4-pole nut keeper kit		kg	2.94	2.94	3.09
General information						
Standards and specifications				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
Power and infeed direction				Top and bottom	Top and bottom	Top and bottom
Isolating features according to IEC 60947				✓	✓	✓

✓ Available -- Not available

[1] Operating cycles NO-NC

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

© Siemens 2019

3VA2 up to 630 A		3VA2 1000 A	3VA2 1600 A NEW
3VA23	3VA24	3VA25	3VA27
3VA2 molded case circuit breakers for line protection, standard applications			
15000	15000	10000	10000
6000	4000	5000	2000
15000	8000	--	--
5000	4000	1000	--
✓	✓	✓	✓
✓	✓	✓	--
✓	✓	✓	--
✓	✓	✓	✓
✓	✓	✓	--
✓	✓	✓	--
--	--	--	✓
--	--	--	✓
--	--	--	✓
3VA2 molded case circuit breakers for motor/starter protection (IEC 60947-4-1 standards and specifications acc. to AC-1)			
250	400 ... 500	630 ... 800	800 ... 1600
15000	15000	10000	10000
6000	4000	4000	2000
✓	✓	--	--
✓	✓	✓	--
✓	✓	✓	--
✓	✓	✓	--
--	--	--	✓
--	--	--	✓
--	--	--	✓
--	--	--	✓
--	--	--	✓
Dimensions			
138 (3p)/184 (4p) 248 110 137	138 (3p)/184 (4p) 248 110 137	210 (3p)/280 (4p) 320 120 253	210 (3p)/280 (4p) 291 171 (toggle); 183 (spring charging motor) 225
--	--	--	--
--	--	--	--
4.3	4.3	11.35	14
4.8	4.8	15.42	16
General information			
IEC 60947-2, -3, -4	IEC 60947-2, -3, -4	IEC 60947-2	IEC 60947-2, -3
A	A/B[1)]	A	B
Top and bottom	Top and bottom	Top and bottom	Top and bottom
✓	✓	✓	

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

© Siemens 2019

General data

2

Molded case circuit breakers and accessories in the system

The 3VA molded case circuit breakers come with a large portfolio of internal and external accessories that 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	3VA molded case circuit breakers up to 1000 A											
	3VA1						3VA2					
	100	160	250	400	630	1000	100	160	250	400	630	1000
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 operator	■	■	■	■			■	■	■	■	■	
Motor operator MO310 (mounted on the side)		■										
Motor operator MO320 (mounted on the front)		■	■	■			■	■	■	■	■	
Motor operator with SEO520 stored energy operator							■	■	■			
Locking, blocking and interlocking	■	■	■	■	■	■	■	■	■	■	■	■
Residual current device (mounted on the side)		■	■	■								
Residual current device (mounted underneath)		■	■	■			■	■	■	■	■	
Communications interface							■	■	■	■	■	■
EFB300							■	■	■	■	■	■
TD300 and TD500							■	■	■	■	■	■
Cover frame	■	■	■	■	■	■	■	■	■	■	■	■
DIN rail adapter	■	■										
Busbar 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 nut keeper kit (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 nut keeper kit. 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	400	630	1000	100	160	250	400	630	1000
Nut keeper kit		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Box terminal		✓	✓	--	--	--	--	✓	✓	--	--	--	--

✓ Available

Insulated busbars and cables with cable lugs can be connected directly to the nut keeper kit. Furthermore, all connection bar extensions are attached to the molded case circuit breaker using the nut keeper kit:

- Front bus connectors extended (phase barriers included in scope of supply)
- Front bus connectors offset (phase barriers included in scope of supply)
- Bus connectors edgewise (phase barriers included in scope of supply)
- Nut keeper kit, right-angled (phase barriers included in scope of supply)

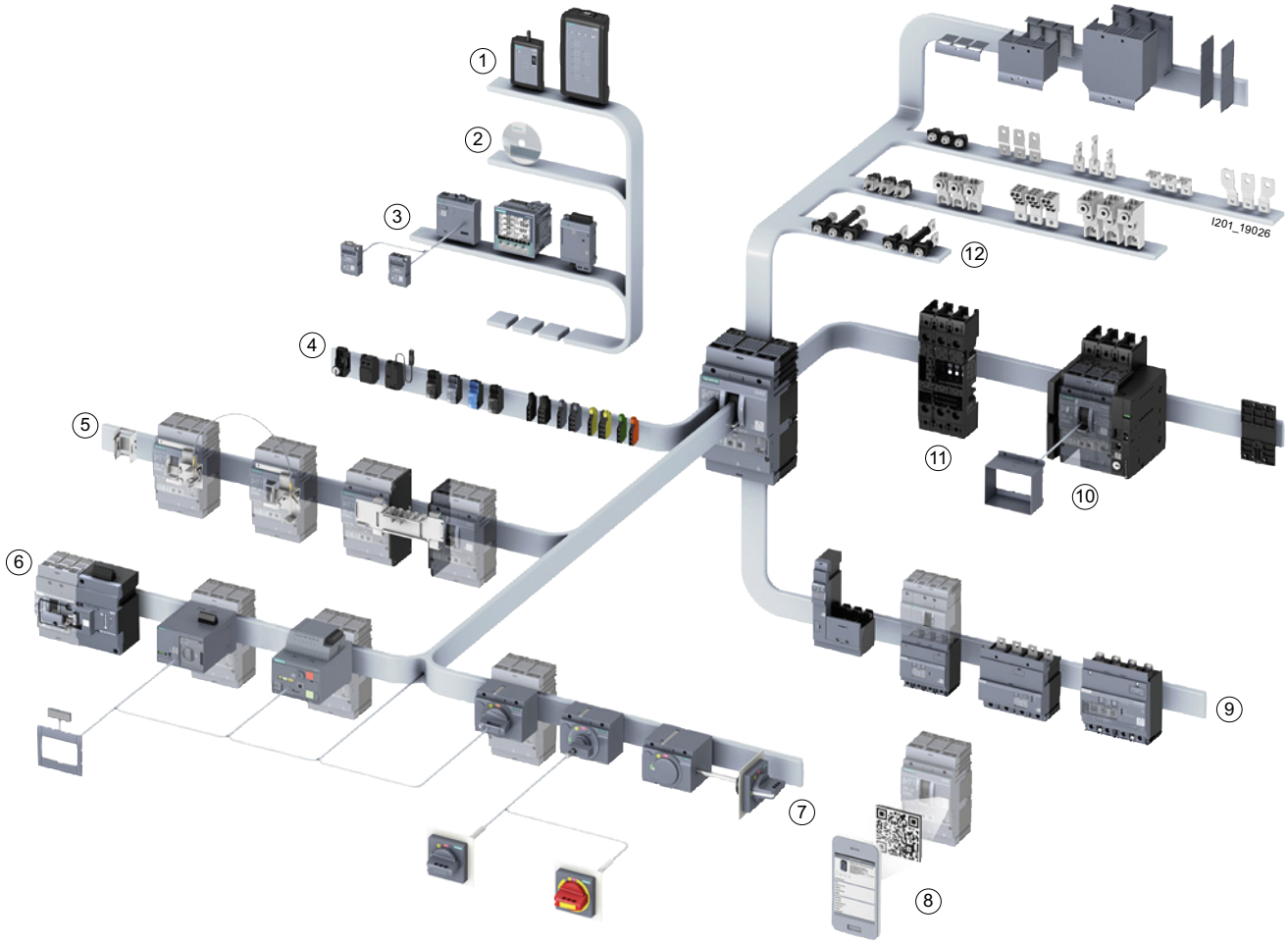
The implementation of insulation measures (phase barriers or terminal covers) is recommended. With some accessory components, insulation measures are essential (and these are included in the scope of supply of the relevant component).

Note:

For information about the 3VA27 molded case circuit breaker, see from page 2/146 onwards.

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

© Siemens 2019



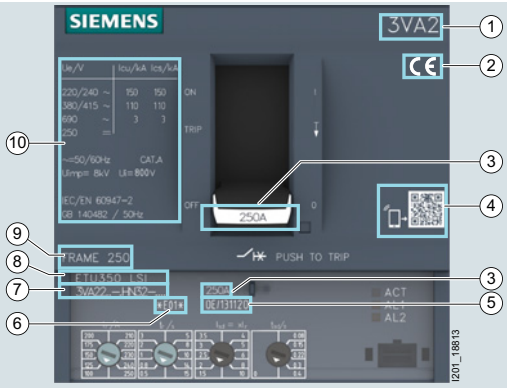
① Test devices (page 2/137)
② powerconfig commissioning and service software (page 2/134, Chapter "Measuring Devices and Power Monitoring" and Chapter "Software")
③ Communication (pages 2/132 to 2/137)
④ Internal accessories (pages 2/84 to 2/92)
⑤ Accessories for locking, blocking and interlocking (pages 2/139 to 2/142)
⑥ Motor operators (page 2/100)
⑦ Manual operators (pages 2/93 to 2/99)
⑧ Knowledge Manager (page 2/15)
⑨ Residual current devices (pages 2/127 to 2/130)
⑩ Draw-out technology (pages 2/122 to 2/126)
⑪ Plug-in technology (pages 2/122 to 2/126)

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

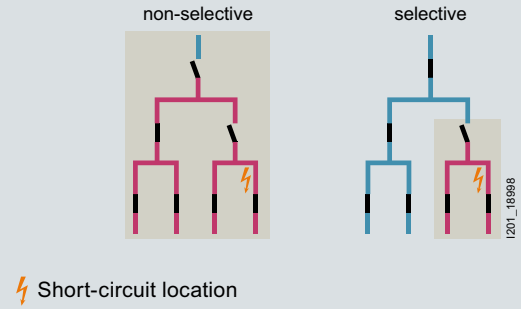
© Siemens 2019

General data

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

The 3VA2 range is 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:

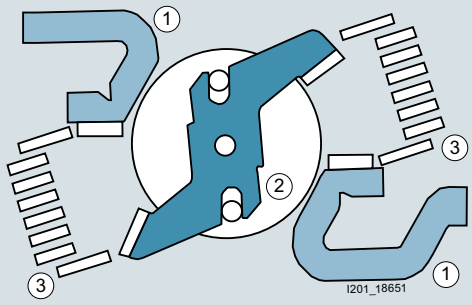
- System-wide, high selectivity with a rated operational current interval of 1 : 2.5 up to the miniature circuit breaker
- Selectivity in combination with high current limiting and high breaking capacity
- Cost-effective design / configuring of selective power distribution systems

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 limiting

To achieve excellent current limiting, the 3VA molded case circuit breakers up to size 630 A are equipped with a rotary double-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 rotary double-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

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

© Siemens 2019

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, H
- 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.

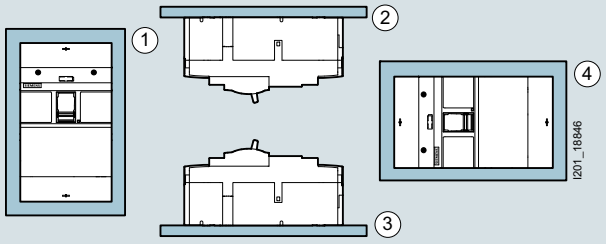
IE3 ready

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 3VA molded case circuit breakers in conjunction with highly energy-efficient IE3 motors, please observe the information on dimensioning and configuring, see "Application Manual for SIRIUS Controls with IE3/IE4 Motors", at https://support.industry.siemens.com/cs/ww/en/view/94770820.

Are you IE3/IE4 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

Further technical specifications

- See manual in SIOS at https://support.industry.siemens.com/cs/ww/en/view/90318775

3VA Equipment manual

- See communications manual in SIOS at https://support.industry.siemens.com/cs/ww/en/view/98746267

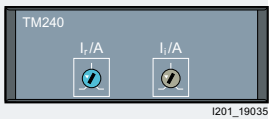
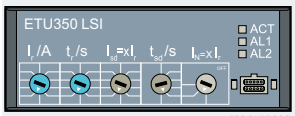
3VA Communication manual

© Siemens 2019

General data

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_19035	 I201_18828	I201_18480	I201_18482
	Line protection: TM210, TM220, TM240 Starter protection: TM120M	Line protection: ETU320, ETU330, ETU340, ETU350 Starter protection: ETU310M Motor protection: ETU350M	Line protection: ETU550, ETU560 Motor protection: ETU550M	Line protection: ETU850, ETU860 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 • Fine setting of the parameters • Reading the measured values	• Setting and reading the parameters via display and communication • Fine setting of the parameters • 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 Interface to • PROFIBUS • PROFINET • Modbus RTU • Ethernet (Modbus TCP)	COM800/COM100 breaker data server Interface to • PROFIBUS • PROFINET • Modbus RTU • 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

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

© Siemens 2019

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	--	✓	✓	--
$I_{N1)}$	--	✓	✓	✓

1) 3VA10 only without N protection
3VA11, 3VA12, 3VA13, 3VA14 without, 50% or 100% N protection
50% N protection from $I_n \geq 100$ A.

Protection functions of the 3VA2 with electronic trip unit

	ETU310M I	ETU320 LI	ETU330 LIG	ETU340 ELISA®	ETU350 LSI	ETU350M LSI	ETU550 LSI	ETU550M 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 transformer	--	✓	✓	✓	✓	--	✓	--	✓	✓	✓	--
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^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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
$I_{N1)}$	--	✓	✓	✓	✓	--	✓	--	✓	✓	✓	--
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

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

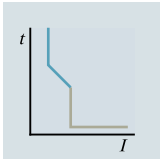
© Siemens 2019

Selection and ordering data

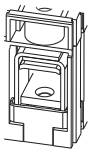
PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

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	SD	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	d		

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

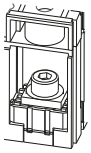


Line protection, 1-pole, TM210 FTFM
With fixed overload protection I_r and fixed short-circuit protection I_i



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 nut keeper kit

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**

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 36 kA at 240 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	SD	I_{cu} up to 55 kA at 240 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	d			d		
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**			**3VA1196-5ED16-0AA0**	
20		**3VA1120-4ED16-0AA0**			**3VA1120-5ED16-0AA0**	
25		**3VA1125-4ED16-0AA0**			**3VA1125-5ED16-0AA0**	
32		**3VA1132-4ED16-0AA0**			**3VA1132-5ED16-0AA0**	
40		**3VA1140-4ED16-0AA0**			**3VA1140-5ED16-0AA0**	
50		**3VA1150-4ED16-0AA0**			**3VA1150-5ED16-0AA0**	
63		**3VA1163-4ED16-0AA0**			**3VA1163-5ED16-0AA0**	
80		**3VA1180-4ED16-0AA0**			**3VA1180-5ED16-0AA0**	
100		**3VA1110-4ED16-0AA0**			**3VA1110-5ED16-0AA0**	
125		**3VA1112-4ED16-0AA0**			**3VA1112-5ED16-0AA0**	
160		**3VA1116-4ED16-0AA0**			**3VA1116-5ED16-0AA0**	
		Connection with nut keeper kit				
16		**3VA1196-4ED12-0AA0**			**3VA1196-5ED12-0AA0**	
20		**3VA1120-4ED12-0AA0**			**3VA1120-5ED12-0AA0**	
25		**3VA1125-4ED12-0AA0**			**3VA1125-5ED12-0AA0**	
32		**3VA1132-4ED12-0AA0**			**3VA1132-5ED12-0AA0**	
40		**3VA1140-4ED12-0AA0**			**3VA1140-5ED12-0AA0**	
50		**3VA1150-4ED12-0AA0**			**3VA1150-5ED12-0AA0**	
63		**3VA1163-4ED12-0AA0**			**3VA1163-5ED12-0AA0**	
80		**3VA1180-4ED12-0AA0**			**3VA1180-5ED12-0AA0**	
100		**3VA1110-4ED12-0AA0**			**3VA1110-5ED12-0AA0**	
125		**3VA1112-4ED12-0AA0**			**3VA1112-5ED12-0AA0**	
160		**3VA1116-4ED12-0AA0**			**3VA1116-5ED12-0AA0**	

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

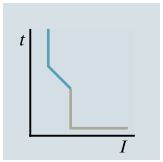
© Siemens 2019

Line protection

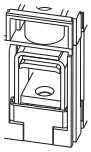
PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

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	SD	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	d		

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

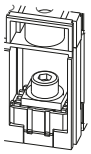


Line protection, 2-pole, TM210 FTFM
With fixed overload protection I_r and fixed short-circuit protection I_i



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 nut keeper kit

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**

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 36 kA at 415 V, standard breaking capacity S (S) See "Overview", p. 2/6 and 2/7		SD	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		Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d		
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**			**3VA1196-5ED26-0AA0**	
20		**3VA1120-4ED26-0AA0**			**3VA1120-5ED26-0AA0**	
25		**3VA1125-4ED26-0AA0**			**3VA1125-5ED26-0AA0**	
32		**3VA1132-4ED26-0AA0**			**3VA1132-5ED26-0AA0**	
40		**3VA1140-4ED26-0AA0**			**3VA1140-5ED26-0AA0**	
50		**3VA1150-4ED26-0AA0**			**3VA1150-5ED26-0AA0**	
63		**3VA1163-4ED26-0AA0**			**3VA1163-5ED26-0AA0**	
80		**3VA1180-4ED26-0AA0**			**3VA1180-5ED26-0AA0**	
100		**3VA1110-4ED26-0AA0**			**3VA1110-5ED26-0AA0**	
125		**3VA1112-4ED26-0AA0**			**3VA1112-5ED26-0AA0**	
160		**3VA1116-4ED26-0AA0**			**3VA1116-5ED26-0AA0**	
		Connection with nut keeper kit				
16		**3VA1196-4ED22-0AA0**			**3VA1196-5ED22-0AA0**	
20		**3VA1120-4ED22-0AA0**			**3VA1120-5ED22-0AA0**	
25		**3VA1125-4ED22-0AA0**			**3VA1125-5ED22-0AA0**	
32		**3VA1132-4ED22-0AA0**			**3VA1132-5ED22-0AA0**	
40		**3VA1140-4ED22-0AA0**			**3VA1140-5ED22-0AA0**	
50		**3VA1150-4ED22-0AA0**			**3VA1150-5ED22-0AA0**	
63		**3VA1163-4ED22-0AA0**			**3VA1163-5ED22-0AA0**	
80		**3VA1180-4ED22-0AA0**			**3VA1180-5ED22-0AA0**	
100		**3VA1110-4ED22-0AA0**			**3VA1110-5ED22-0AA0**	
125		**3VA1112-4ED22-0AA0**			**3VA1112-5ED22-0AA0**	
160		**3VA1116-4ED22-0AA0**			**3VA1116-5ED22-0AA0**	

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

© Siemens 2019

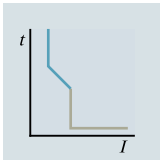
Line protection

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

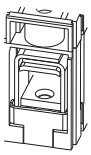
Connection technology	Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} **up to 16 kA at 415 V, very low breaking capacity B** (B) See "Overview", p. 2/6 and 2/7 Article No.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

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

I201_19027

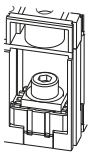


Line protection, TM210 FTFM
With fixed overload protection I_r and fixed short-circuit protection I_i



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 nut keeper kit

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**

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7		SD	I_{cu} up 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	d			d		
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 nut keeper kit				
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**	

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

© Siemens 2019

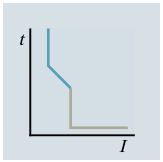
Line protection

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

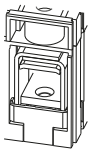
Connection technology	Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article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

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

I201_19027

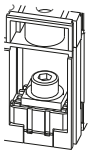


Line protection, TM210 FTFM
With fixed overload protection I_r and fixed short-circuit protection I_i



Connection with box terminal

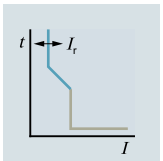
3VA11	16	16	320	**3VA1196-3ED36-0AA0**
	20	20	320	**3VA1120-3ED36-0AA0**
	25	25	320	**3VA1125-3ED36-0AA0**
	32	32	320	**3VA1132-3ED36-0AA0**
	40	40	400	**3VA1140-3ED36-0AA0**
	50	50	500	**3VA1150-3ED36-0AA0**
	63	63	630	**3VA1163-3ED36-0AA0**
	80	80	800	**3VA1180-3ED36-0AA0**
	100	100	1000	**3VA1110-3ED36-0AA0**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



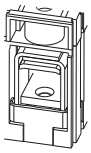
Connection with nut keeper kit

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**

I201_19028

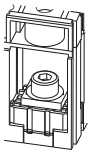


Line protection, TM220 ATFM
With adjustable overload protection I_r and fixed short-circuit protection I_i



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 nut keeper kit

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**

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up 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	SD	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	SD	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	d			d			d		

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 nut keeper kit		
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 nut keeper kit		
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**

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

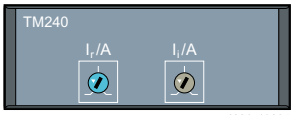
© Siemens 2019

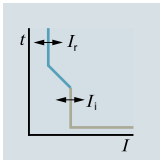
Line protection

PU (UNIT, SET, M) = 1 PS = 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	SD	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	d		

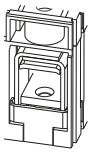
3-pole, fixed-mounted, 3VA11/3VA12, up to 250 A Thermal-magnetic trip unit





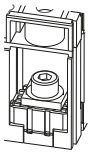
Line protection, TM240 ATAM

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	22 ... 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 nut keeper kit

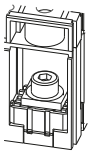
3VA11	16	11 ... 16	160 ... 320	**3VA1196-3EF32-0AA0**
	20	14 ... 20	160 ... 320	**3VA1120-3EF32-0AA0**
	25	18 ... 25	160 ... 320	**3VA1125-3EF32-0AA0**
	32	22 ... 32	160 ... 320	**3VA1132-3EF32-0AA0**
	40	28 ... 40	200 ... 400	**3VA1140-3EF32-0AA0**
	50	35 ... 50	250 ... 500	**3VA1150-3EF32-0AA0**
	63	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	--

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	SD	I_{cu} up 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	A	A	d		

3-pole, fixed-mounted, 3VA13/3VA14/3VA15, up to 1000 A Thermal-magnetic trip unit

Line protection, TM240 ATAM

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



Connection with nut keeper kit

3VA13	NEW	320	220 ... 320	1600 ... 3200	**3VA1332-4EF32-0AA0**
		400	280 ... 400	2000 ... 4000	**3VA1340-4EF32-0AA0**
3VA14	NEW	500	350 ... 500	2500 ... 5000	**3VA1450-4EF32-0AA0**
		630	440 ... 630	2520 ... 5040	**3VA1463-4EF32-0AA0**
3VA15	NEW	630	440 ... 630	3150 ... 6300	--
		800	560 ... 800	4000 ... 8000	--
		1000	700 ... 1000	5000 ... 10000	--

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 36 kA at 415 V, standard breaking capacity S (S) See "Overview", p. 2/6 and 2/7	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7	SD	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	d		d		d	
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 nut keeper kit						
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**

Line protection, TM240 ATAM

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

Rated current I_n	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7	SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7	SD	I_{cu} up to 110 kA at 415 V, very high switching 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		Article No. www.siemens.com/product?Article No. Basic price per PU
A	d		d		d	
NEW 320		**3VA1332-5EF32-0AA0**		**3VA1332-6EF32-0AA0**		**3VA1332-7EF32-0AA0**
400		**3VA1340-5EF32-0AA0**		**3VA1340-6EF32-0AA0**		**3VA1340-7EF32-0AA0**
NEW 500		**3VA1450-5EF32-0AA0**		**3VA1450-6EF32-0AA0**		**3VA1450-7EF32-0AA0**
630		**3VA1463-5EF32-0AA0**		**3VA1463-6EF32-0AA0**		**3VA1463-7EF32-0AA0**
NEW 630		**3VA1563-5EF32-0AA0**		**3VA1563-6EF32-0AA0**		**3VA1563-7EF32-0AA0**
800		**3VA1580-5EF32-0AA0**		**3VA1580-6EF32-0AA0**		**3VA1580-7EF32-0AA0**
1000		**3VA1510-5EF32-0AA0**		**3VA1510-6EF32-0AA0**		**3VA1510-7EF32-0AA0**

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

© Siemens 2019

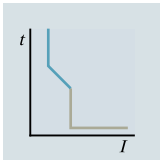
Line protection

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

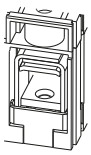
Connection technology	Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 16 kA at 415 V, very low breaking capacity B (B) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article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

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

I201_19027

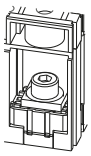


Line protection, TM210 FTFM, without neutral conductor protection
With fixed overload protection I_r and fixed short-circuit protection I_i



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 nut keeper kit

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**

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7		SD	I_{cu} up 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	d			d		
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 nut keeper kit				
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**	

© Siemens 2019

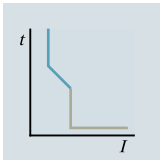
Line protection

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

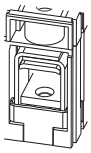
2

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	SD	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	d		

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

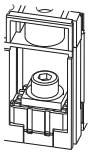


Line protection, TM210 FTFM, without neutral conductor protection
With fixed overload protection I_r and fixed short-circuit protection I_i



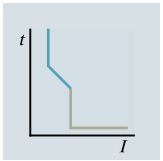
Connection with box terminal

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**

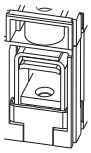


Connection with nut keeper kit

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**

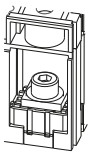


Line protection, TM210 FTFM, 50% neutral conductor protection
With fixed overload protection I_r and fixed short-circuit protection I_i



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 nut keeper kit

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

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up 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	SD	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	SD	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	d			d			d		

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 nut keeper kit

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 fixed 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 nut keeper kit

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**

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

© Siemens 2019

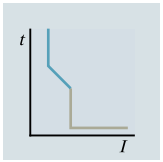
Line protection

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

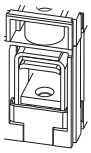
Connection technology	Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article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

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

I201_19027

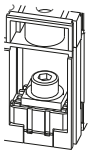


Line protection, TM210 FTFM, 100% neutral conductor protection
With fixed overload protection I_r and fixed short-circuit protection I_i



Connection with box terminal

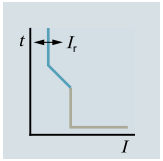
3VA11	16	16	320	**3VA1196-3GD46-0AA0**
	20	20	320	**3VA1120-3GD46-0AA0**
	25	25	320	**3VA1125-3GD46-0AA0**
	32	32	320	**3VA1132-3GD46-0AA0**
	40	40	400	**3VA1140-3GD46-0AA0**
	50	50	500	**3VA1150-3GD46-0AA0**
	63	63	630	**3VA1163-3GD46-0AA0**
	80	80	800	**3VA1180-3GD46-0AA0**
	100	100	1000	**3VA1110-3GD46-0AA0**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



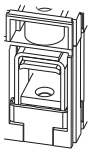
Connection with nut keeper kit

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

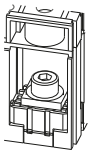


Line protection, TM220 ATFM, without neutral conductor protection
With adjustable overload protection I_r and fixed short-circuit protection I_i



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 nut keeper kit

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**

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up 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	SD	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	SD	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	d			d			d		

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 nut keeper kit		
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 nut keeper kit		
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**

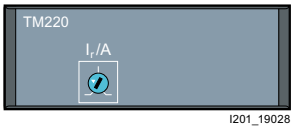
Minimum order quantity (PS) or a multiple thereof can be ordered.

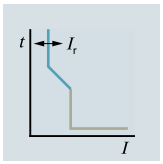
© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

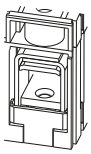
Connection technology	Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article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

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



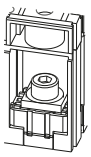


Line protection, TM220 ATFM, 50% neutral conductor protection
With adjustable overload protection I_r and fixed short-circuit protection I_i



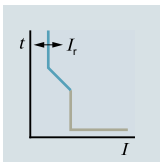
Connection with box terminal

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

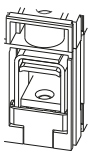


Connection with nut keeper kit

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

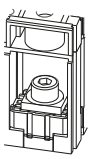


Line protection, TM220 ATFM, 100% neutral conductor protection
With adjustable overload protection I_r and fixed short-circuit protection I_i



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 nut keeper kit

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**

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up 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	SD	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	SD	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	d			d			d		

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 nut keeper kit

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 nut keeper kit

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**

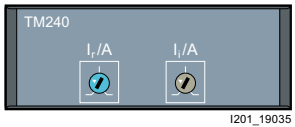
Minimum order quantity (PS) or a multiple thereof can be ordered.

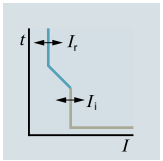
© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

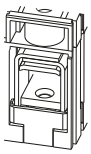
Connection technology	Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article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

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



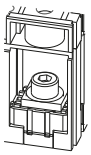


Line protection, TM240 ATAM, without neutral conductor protection
With adjustable overload protection I_r and adjustable short-circuit protection I_i



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	22 ... 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**



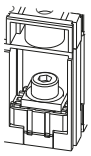
Connection with nut keeper kit

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	22 ... 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	--

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	SD	I_{cu} up 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	A	A	d		

4-pole, fixed-mounted, 3VA13/3VA14/3VA15, up to 1000 A
Thermal-magnetic trip unit

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



Connection with nut keeper kit

3VA13 NEW	320	220 ... 320	1600 ... 3200	**3VA1332-4EF42-0AA0**
	400	280 ... 400	2000 ... 4000	**3VA1340-4EF42-0AA0**
3VA14 NEW	500	350 ... 500	2500 ... 5000	**3VA1450-4EF42-0AA0**
	630	440 ... 630	2520 ... 5040	**3VA1463-4EF42-0AA0**
3VA15 NEW	630	440 ... 630	3150 ... 6300	--
	800	560 ... 800	4000 ... 8000	--
	1000	700 ... 1000	5000 ... 10000	--

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 36 kA at 415 V, standard breaking capacity S (S) See "Overview", p. 2/6 and 2/7	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7	SD	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	d		d		d	
		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 nut keeper kit				
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, without neutral conductor protection

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

Rated current I_n	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7	SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7	SD	I_{cu} up to 110 kA at 415 V, very high switching 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		Article No. www.siemens.com/product?Article No. Basic price per PU
A	d		d		d	
NEW 320		**3VA1332-5EF42-0AA0**		**3VA1332-6EF42-0AA0**		**3VA1332-7EF42-0AA0**
400		**3VA1340-5EF42-0AA0**		**3VA1340-6EF42-0AA0**		**3VA1340-7EF42-0AA0**
NEW 500		**3VA1450-5EF42-0AA0**		**3VA1450-6EF42-0AA0**		**3VA1450-7EF42-0AA0**
630		**3VA1463-5EF42-0AA0**		**3VA1463-6EF42-0AA0**		**3VA1463-7EF42-0AA0**
NEW 630		**3VA1563-5EF42-0AA0**		**3VA1563-6EF42-0AA0**		**3VA1563-7EF42-0AA0**
800		**3VA1580-5EF42-0AA0**		**3VA1580-6EF42-0AA0**		**3VA1580-7EF42-0AA0**
1000		**3VA1510-5EF42-0AA0**		**3VA1510-6EF42-0AA0**		**3VA1510-7EF42-0AA0**

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

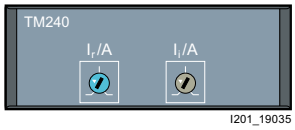
© Siemens 2019

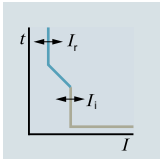
Line protection

PU (UNIT, SET, M) = 1 PS = 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	SD	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	d		

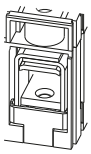
4-pole, fixed-mounted, 3VA11/3VA12, up to 250 A
Thermal-magnetic trip unit





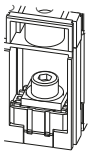
Line protection, TM240 ATAM, 50% neutral conductor protection
With adjustable overload protection I_r and adjustable short-circuit protection I_i

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 nut keeper kit



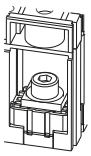
3VA11	100	70 ... 100	500 ... 1000	**3VA1110-3FF42-0AA0**
	125	88 ... 125	625 ... 1250	**3VA1112-3FF42-0AA0**
	160	112 ... 160	800 ... 1600	**3VA1116-3FF42-0AA0**
3VA12	160	112 ... 160	800 ... 1600	--
	200	140 ... 200	1000 ... 2000	--
	250	175 ... 250	1250 ... 2500	--

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	SD	I_{cu} up 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	A	A	d		

4-pole, fixed-mounted, 3VA13/3VA14, up to 630 A
Thermal-magnetic trip unit

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

Connection with nut keeper kit



3VA13	NEW	320	220 ... 320	1600 ... 3200	**3VA1332-4FF42-0AA0**
		400	280 ... 400	2000 ... 4000	**3VA1340-4FF42-0AA0**
3VA14	NEW	500	350 ... 500	2500 ... 5000	**3VA1450-4FF42-0AA0**
		630	440 ... 630	2520 ... 5040	**3VA1463-4FF42-0AA0**

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 36 kA at 415 V, standard breaking capacity S (S) See "Overview", p. 2/6 and 2/7	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7	SD	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	d		d		d	
		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 nut keeper kit				
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**

Rated current I_n	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7	SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/6 and 2/7	SD	I_{cu} up to 110 kA at 415 V, very high switching 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		Article No. www.siemens.com/product?Article No. — Basic price per PU
A	d		d		d	
		Line protection, TM240 ATAM, 50% neutral conductor protection With adjustable overload protection I_r and adjustable short-circuit protection I_i				
NEW 320		**3VA1332-5FF42-0AA0**		**3VA1332-6FF42-0AA0**		**3VA1332-7FF42-0AA0**
400		**3VA1340-5FF42-0AA0**		**3VA1340-6FF42-0AA0**		**3VA1340-7FF42-0AA0**
NEW 500		**3VA1450-5FF42-0AA0**		**3VA1450-6FF42-0AA0**		**3VA1450-7FF42-0AA0**
630		**3VA1463-5FF42-0AA0**		**3VA1463-6FF42-0AA0**		**3VA1463-7FF42-0AA0**

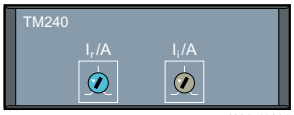
Minimum order quantity (PS) or a multiple thereof can be ordered.

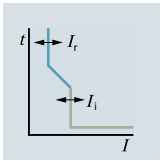
© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

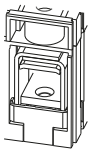
Connection technology	Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 25 kA at 415 V, low breaking capacity N (N) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article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

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



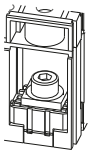


Line protection, TM240 ATAM, 100% neutral conductor protection
With adjustable overload protection I_r and adjustable short-circuit protection I_i



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	22 ... 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**



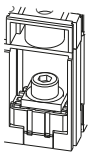
Connection with nut keeper kit

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	22 ... 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	--

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	SD	I_{cu} up 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	A	A	d		

4-pole, fixed-mounted, 3VA13/3VA14/3VA15, up to 1000 A Thermal-magnetic trip unit

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



Connection with nut keeper kit

3VA13 NEW	320	220 ... 320	1600 ... 3200	**3VA1332-4GF42-0AA0**
	400	280 ... 400	2000 ... 4000	**3VA1340-4GF42-0AA0**
3VA14 NEW	500	350 ... 500	2500 ... 5000	**3VA1450-4GF42-0AA0**
	630	440 ... 630	2520 ... 5040	**3VA1463-4GF42-0AA0**
3VA15 NEW	630	440 ... 630	3150 ... 6300	--
	800	560 ... 800	4000 ... 8000	--
	1000	700 ... 1000	5000 ... 10000	--

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up 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	SD	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	SD	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	d			d			d		

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 nut keeper kit

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**	

Rated current I_n	SD	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	SD	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	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d			d		

Line protection, TM240 ATAM, 100% neutral conductor protection

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

NEW	320	**3VA1332-5GF42-0AA0**			**3VA1332-6GF42-0AA0**			**3VA1332-7GF42-0AA0**	
	400	**3VA1340-5GF42-0AA0**			**3VA1340-6GF42-0AA0**			**3VA1340-7GF42-0AA0**	
NEW	500	**3VA1450-5GF42-0AA0**			**3VA1450-6GF42-0AA0**			**3VA1450-7GF42-0AA0**	
	630	**3VA1463-5GF42-0AA0**			**3VA1463-6GF42-0AA0**			**3VA1463-7GF42-0AA0**	
NEW	630	**3VA1563-5GF42-0AA0**			**3VA1563-6GF42-0AA0**			**3VA1563-7GF42-0AA0**	
	800	**3VA1580-5GF42-0AA0**			**3VA1580-6GF42-0AA0**			**3VA1580-7GF42-0AA0**	
	1000	**3VA1510-5GF42-0AA0**			**3VA1510-6GF42-0AA0**			**3VA1510-7GF42-0AA0**	

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

© Siemens 2019

2

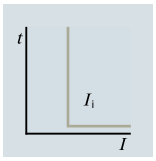
Selection and ordering data

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

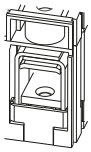
Connection technology	Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article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

3-pole, fixed-mounted, 3VA11/3VA12/3VA13/3VA14/3VA15, up to 800 A
Magnetic trip unit

I201_19523

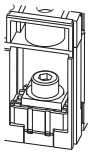


Starter protection, TM110M FM
With fixed short-circuit protection I_i



Connection with box terminal

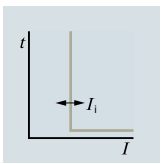
3VA11	NEW	1	--	16	**3VA1181-5MG36-0AA0**
	NEW	2	--	32	**3VA1102-5MG36-0AA0**
	NEW	4	--	64	**3VA1104-5MG36-0AA0**
		8	--	128	**3VA1108-5MG36-0AA0**
		12.5	--	200	**3VA1192-5MG36-0AA0**



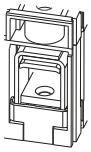
Connection with nut keeper kit

3VA11	NEW	1	--	16	**3VA1181-5MG32-0AA0**
	NEW	2	--	32	**3VA1102-5MG32-0AA0**
	NEW	4	--	64	**3VA1104-5MG32-0AA0**
		8	--	128	**3VA1108-5MG32-0AA0**
		12.5	--	200	**3VA1192-5MG32-0AA0**

I201_19240

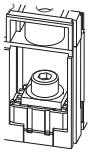


Starter protection, TM120M AM
With adjustable short-circuit protection I_i



Connection with box terminal

3VA11		20	--	140 ... 320	**3VA1120-5MH36-0AA0**
		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 nut keeper kit

3VA11		20	--	140 ... 320	**3VA1120-5MH32-0AA0**
		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**
3VA13	NEW	250	--	2000 ... 4000	**3VA1325-5MH32-0AA0**
		320	--	2240 ... 4480	**3VA1332-5MH32-0AA0**
3VA14	NEW	400	--	2400 ... 4800	**3VA1440-5MH32-0AA0**
		500	--	2500 ... 5000	**3VA1450-5MH32-0AA0**
3VA15	NEW	630	--	6400 ... 9450	**3VA1563-5MH32-0AA0**
		800	--	6400 ... 9600	**3VA1580-5MH32-0AA0**

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	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	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/6 and 2/7 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d				

Starter protection, TM110M FM
With fixed short-circuit protection I_i

		Connection with box terminal
NEW	1	**3VA1181-6MG36-0AA0**
NEW	2	**3VA1102-6MG36-0AA0**
NEW	4	**3VA1104-6MG36-0AA0**
	8	**3VA1108-6MG36-0AA0**
	12.5	**3VA1192-6MG36-0AA0**

		Connection with nut keeper kit
NEW	1	**3VA1181-6MG32-0AA0**
NEW	2	**3VA1102-6MG32-0AA0**
NEW	4	**3VA1104-6MG32-0AA0**
	8	**3VA1108-6MG32-0AA0**
	12.5	**3VA1192-6MG32-0AA0**

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

		Connection with box terminal
	20	**3VA1120-6MH36-0AA0**
	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 nut keeper kit	Connection with nut keeper kit
	20	**3VA1120-6MH32-0AA0**	**--**
	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**	**--**
NEW	250	**3VA1325-6MH32-0AA0**	**--**
	320	**3VA1332-6MH32-0AA0**	**--**
NEW	400	**3VA1440-6MH32-0AA0**	**--**
	500	**3VA1450-6MH32-0AA0**	**--**
NEW	630	**3VA1563-6MH32-0AA0**	**3VA1563-7MH32-0AA0**
	800	**3VA1580-6MH32-0AA0**	**3VA1580-7MH32-0AA0**

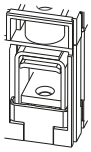
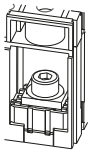
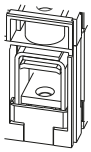
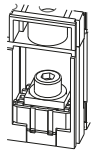
Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

2

Selection and ordering data

PU (UNIT, SET, M) = 1 PS = 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 instantaneous short-circuit protection "I" I_i	SD	Article No. www.siemens.com/product?Article No.	Basic price per PU
		A	A	A	d		
3-pole, fixed-mounted, 3VA11/3VA12/3VA13, up to 400 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 nut keeper kit**							
	3VA11	63	--	--		**3VA1163-1AA32-0AA0**	
		100	--	--		**3VA1110-1AA32-0AA0**	
		125	--	--		**3VA1112-1AA32-0AA0**	
		160	--	--		**3VA1116-1AA32-0AA0**	
	3VA12	250	--	--		**3VA1225-1AA32-0AA0**	
	3VA13 NEW	400	--	--		**3VA1340-1AA32-0AA0**	
	3VA14 NEW	630[1]	--	--		**3VA1463-1AA32-0AA0**	
4-pole, fixed-mounted, 3VA11/3VA12/3VA13, up to 400 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**	
	3VA13	400				**--**	
 **Connection with nut keeper kit**							
	3VA11	63	--	--		**3VA1163-1AA42-0AA0**	
		100	--	--		**3VA1110-1AA42-0AA0**	
		125	--	--		**3VA1112-1AA42-0AA0**	
		160	--	--		**3VA1116-1AA42-0AA0**	
	3VA12	250	--	--		**3VA1225-1AA42-0AA0**	
	3VA13 NEW	400	--	--		**3VA1340-1AA42-0AA0**	
	3VA14 NEW	500[1]				**3VA1450-1AA42-0AA0**	

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

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

© Siemens 2019

Note

You will find the 3VA2 molded case circuit breakers up to 1000 A, IEC from page 2/48 onwards.

© Siemens 2019

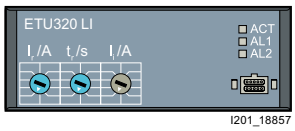
2

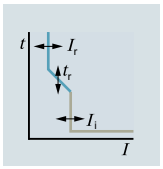
Selection and ordering data

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

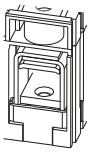
Connection technology	Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} **up to 55 kA at 415 V, medium breaking capacity M** (M) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
		A	A	A	d		

3-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A
Electronic trip unit



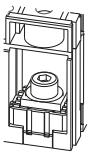


Line protection, ETU320 LI
With adjustable overload protection I_r and adjustable instantaneous short-circuit protection I_i



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 nut keeper kit

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**
3VA25	630	250 ... 630	945 ... 7560	**3VA2563-5HL32-0AA0**
	800	320 ... 800	1200 ... 8000	**3VA2580-5HL32-0AA0**
	1000	400 ... 1000	1500 ... 10000	**3VA2510-5HL32-0AA0**

1) At breaking capacity L 4400 A

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L (L) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d			d		
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 nut keeper kit							
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**	
630		**3VA2563-6HL32-0AA0**			**3VA2563-7HL32-0AA0**			**--**	
800		**3VA2580-6HL32-0AA0**			**3VA2580-7HL32-0AA0**			**--**	
1000		**3VA2510-6HL32-0AA0**			**3VA2510-7HL32-0AA0**			**--**	

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

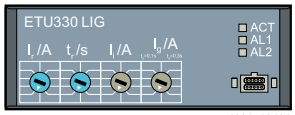
© Siemens 2019

2

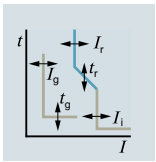
PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

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	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/8 and 2/9	
		A	A	A	A	d	Article No. www.siemens.com/product?Article No.	Basic price per PU

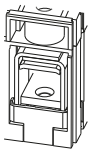
3-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A
Electronic trip unit



I201_18426

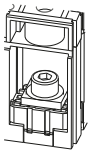


Line protection, ETU330 LIG
With adjustable overload protection I_r, adjustable instantaneous short-circuit protection I_i and adjustable ground-fault protection I_g



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 nut keeper kit

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**
3VA25	630	250 ... 630	945 ... 7560	126 ... 630	**3VA2563-5HM32-0AA0**
	800	320 ... 800	1200 ... 8000	160 ... 800	**3VA2580-5HM32-0AA0**
	1000	400 ... 1000	1500 ... 10000	200 ... 1000	**3VA2510-5HM32-0AA0**

1) At breaking capacity L 4400 A

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L (L) See "Overview", p. 2/8 and 2/9
		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	d		d		d	

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 nut keeper kit		
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**
630	**3VA2563-6HM32-0AA0**	**3VA2563-7HM32-0AA0**	**--**
800	**3VA2580-6HM32-0AA0**	**3VA2580-7HM32-0AA0**	**--**
1000	**3VA2510-6HM32-0AA0**	**3VA2510-7HM32-0AA0**	**--**

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

© Siemens 2019

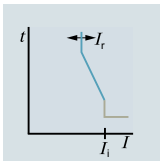
Line protection

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

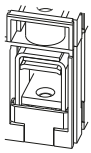
Connection technology	Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/8 and 2/9
		A	A	A	d	Article No. www.siemens.com/product?Article No. / Basic price per PU

3-pole, fixed-mounted, 3VA21 to 3VA25, up to 1000 A
Electronic trip unit

I201_18427

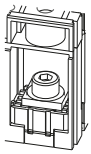


Line protection, ETU340 ELISA
With **easily** adjustable characteristic (characteristic form of a **fuse**)



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 nut keeper kit

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**
3VA25	630	250 ... 630	7560	**3VA2563-5HK32-0AA0**
	800	320 ... 800	8000	**3VA2580-5HK32-0AA0**
	1000	400 ... 1000	10000	**3VA2510-5HK32-0AA0**

1) At breaking capacity L 4400 A

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} **up to 85 kA at 415 V, high breaking capacity H** (H) See "Overview", p. 2/8 and 2/9	SD	I_{cu} **up to 110 kA at 415 V, very high switching capacity C** (C) See "Overview", p. 2/8 and 2/9	SD	I_{cu} **up to 150 kA at 415 V, extremely high switching capacity L** (L) See "Overview", p. 2/8 and 2/9
		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	d		d		d	
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 nut keeper kit				
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**
630		**3VA2563-6HK32-0AA0**		**3VA2563-7HK32-0AA0**		--
800		**3VA2580-6HK32-0AA0**		**3VA2580-7HK32-0AA0**		--
1000		**3VA2510-6HK32-0AA0**		**3VA2510-7HK32-0AA0**		--

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

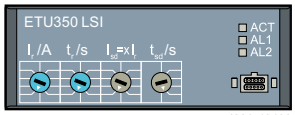
© Siemens 2019

2

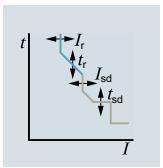
PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

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	SD	I_{cu} **up to 55 kA at 415 V, medium breaking capacity M** (M) See "Overview", p. 2/8 and 2/9
		A	A	A	A	d	Article No. www.siemens.com/product?Article No. — Basic price per PU

3-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A
Electronic trip unit

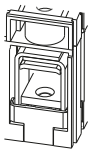


I201_18430



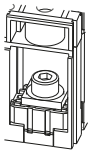
Line and generator protection, ETU350 LSI

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 nut keeper kit

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**
3VA25	630	250 ... 630	1.5 ... 10	7560	**3VA2563-5HN32-0AA0**
	800	320 ... 800	1.5 ... 10	8000	**3VA2580-5HN32-0AA0**
	1000	400 ... 1000	1.5 ... 10	10000	**3VA2510-5HN32-0AA0**

1) At breaking capacity L 4400 A

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L (L) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d			d		

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 nut keeper kit							
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**	
630		**3VA2563-6HN32-0AA0**			**3VA2563-7HN32-0AA0**			--	
800		**3VA2580-6HN32-0AA0**			**3VA2580-7HN32-0AA0**			--	
1000		**3VA2510-6HN32-0AA0**			**3VA2510-7HN32-0AA0**			--	

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

© Siemens 2019

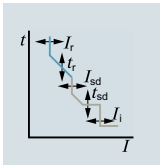
Line protection

PU (UNIT, SET, M) = 1 PS = 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	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
		A	A	A	A	d		

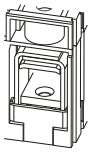
3-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A
Electronic trip unit

I201_18480



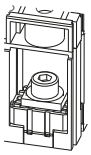
Line and generator protection, with display, ETU550 LSI

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 nut keeper kit

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**
3VA25	630	250 ... 630	378 ... 6300	945 ... 7560	**3VA2563-5JP32-0AA0**
	800	320 ... 800	480 ... 8000	1200 ... 8000	**3VA2580-5JP32-0AA0**
	1000	400 ... 1000	600 ... 10000	1500 ... 10000	**3VA2510-5JP32-0AA0**

1) At breaking capacity L 4400 A

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L (L) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d			d		
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 nut keeper kit							
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**	
630		**3VA2563-6JP32-0AA0**			**3VA2563-7JP32-0AA0**			--	
800		**3VA2580-6JP32-0AA0**			**3VA2580-7JP32-0AA0**			--	
1000		**3VA2510-6JP32-0AA0**			**3VA2510-7JP32-0AA0**			--	

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

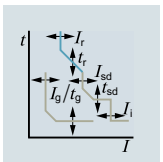
© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 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	SD	**I_{cu} up to 55 kA at 415 V, medium breaking capacity M** See "Overview", p. 2/8 and 2/9 (M)
		A	A	A	A	d	Article No. www.siemens.com/product?Article No. / Basic price per PU

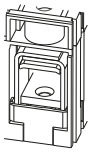
3-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A
Electronic trip unit

I201_18481



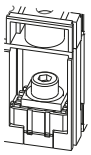
Line and generator protection, with display, ETU560 LSIG

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 nut keeper kit

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

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L (L) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d			d		
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 nut keeper kit							
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**	

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

© Siemens 2019

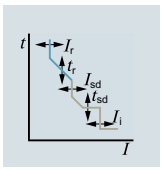
Line protection

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

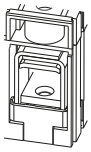
Connection technology	Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	S function (short-time delayed short-circuit protection "S") I_{sd}	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
		A	A	A	A	d		

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

I201_18482

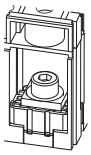


Line and generator protection, with display, with metering function, ETU850 LSI
With adjustable overload protection I_r, adjustable delayed short-circuit protection I_{sd} and adjustable instantaneous short-circuit protection I_i



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 nut keeper kit

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**

[1)] At breaking capacity L 4400 A

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L (L) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d			d		

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 nut keeper kit

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**	

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

© Siemens 2019

Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

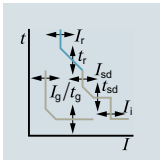
Line protection

PU (UNIT, SET, M) = 1 PS = 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	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/8 and 2/9	
		A	A	A	A	d	Article No. www.siemens.com/product?Article No.	Basic price per PU

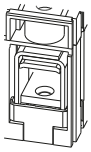
3-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A
Electronic trip unit

I201_18483



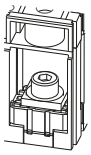
Line and generator protection, with display, with metering function, ETU860 LSIG

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 nut keeper kit

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**
3VA25	630	250 ... 630	378 ... 6300	945 ... 7560	**3VA2563-5KQ32-0AA0**
	800	320 ... 800	480 ... 8000	1200 ... 8000	**3VA2580-5KQ32-0AA0**
	1000	400 ... 1000	600 ... 10000	1500 ... 10000	**3VA2510-5KQ32-0AA0**

[1)] At breaking capacity L 4400 A

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L (L) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d			d		

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 nut keeper kit							
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**	
630		**3VA2563-6KQ32-0AA0**			**3VA2563-7KQ32-0AA0**			**--**	
800		**3VA2580-6KQ32-0AA0**			**3VA2580-7KQ32-0AA0**			**--**	
1000		**3VA2510-6KQ32-0AA0**			**3VA2510-7KQ32-0AA0**			**--**	

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

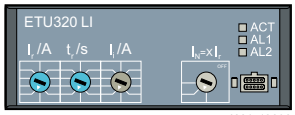
© Siemens 2019

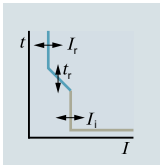
Line protection

PU (UNIT, SET, M) = 1 PS = 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	SD	**I_{cu} up to 55 kA at 415 V, medium breaking capacity M** See "Overview", p. 2/8 and 2/9 (M)	
						Article No. www.siemens.com/product?Article No.	Basic price per PU
		A	A	A	d		

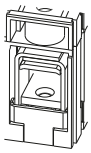
4-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A
Electronic trip unit





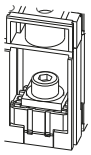
Line protection, ETU320 LI

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



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 nut keeper kit

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**
3VA25	630	250 ...630	945 ... 7560	**3VA2563-5HL42-0AA0**
	800	320 ... 800	1200 ... 8000	**3VA2580-5HL42-0AA0**
	1000	400 ... 1000	1500 ... 10000	**3VA2510-5HL42-0AA0**

[1)] At breaking capacity L 4400 A

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L (L) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d			d		

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%, 50% or 100% (50% only from $I_n \geq 100$ A)

		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 nut keeper kit							
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**	
630		**3VA2563-6HL42-0AA0**			**3VA2563-7HL42-0AA0**			--	
800		**3VA2580-6HL42-0AA0**			**3VA2580-7HL42-0AA0**			--	
1000		**3VA2510-6HL42-0AA0**			**3VA2510-7HL42-0AA0**			--	

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

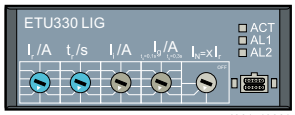
© Siemens 2019

Line protection

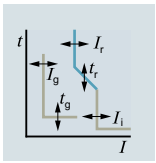
PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

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	SD	**I_{cu} up to 55 kA at 415 V, medium breaking capacity M** (M) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
		A	A	A	A	d		

4-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A
Electronic trip unit

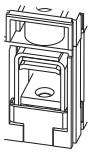


I201_18829



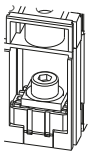
Line protection, ETU330 LIG

With adjustable overload protection I_r, adjustable instantaneous short-circuit protection I_i, with neutral protection against overload and short circuit 0%, 50% or 100% (50% only from $I_n \geq 100$ A) 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 nut keeper kit

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**
3VA25	630	250 ... 630	945 ... 7560	126 ... 630	**3VA2563-5HM42-0AA0**
	800	320 ... 800	1200 ... 8000	160 ... 800	**3VA2580-5HM42-0AA0**
	1000	400 ... 1000	1500 ... 10000	200 ... 1000	**3VA2510-5HM42-0AA0**

1) At breaking capacity L 4400 A

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L (L) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d			d		
Line protection, ETU330 LIG With adjustable overload protection I_r, adjustable instantaneous short-circuit protection I_i, with neutral protection against overload and short circuit 0%, 50% or 100% (50% only from $I_n \geq 100$ A) 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 nut keeper kit							
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**	
630		**3VA2563-6HM42-0AA0**			**3VA2563-7HM42-0AA0**			--	
800		**3VA2580-6HM42-0AA0**			**3VA2580-7HM42-0AA0**			--	
1000		**3VA2510-6HM42-0AA0**			**3VA2510-7HM42-0AA0**			--	

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

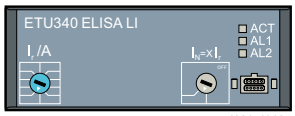
© Siemens 2019

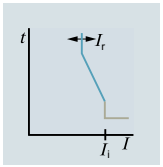
Line protection

PU (UNIT, SET, M) = 1 PS = 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	SD	**I_{cu} up to 55 kA at 415 V, medium breaking capacity M** See "Overview", p. 2/8 and 2/9 (M)
		A	A	A	d	Article No. www.siemens.com/product?Article No. / Basic price per PU

4-pole, fixed-mounted, 3VA21 to 3VA25, up to 1000 A
Electronic trip unit

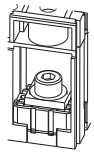




Line protection, ETU340 ELISA
With **easily** adjustable characteristic (characteristic form of a **fuse**)
with neutral protection against overload and short circuit 0%, 50% or 100% (50% only from $I_n \geq 100$ A)

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 nut keeper kit

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**
3VA25	630	250 ... 630	7560	**3VA2563-5HK42-0AA0**
	800	320 ... 800	8000	**3VA2580-5HK42-0AA0**
	1000	400 ... 1000	10000	**3VA2510-5HK42-0AA0**

[1)] At breaking capacity L 4400 A

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L (L) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d			d		
Line protection, ETU340 ELISA With **easily** adjustable characteristic (characteristic form of a **fuse**) with neutral protection against overload and short circuit 0%, 50% or 100% (50% only from $I_n \geq 100$ A)									
		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 nut keeper kit							
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**	
630		**3VA2563-6HK42-0AA0**			**3VA2563-7HK42-0AA0**			**--**	
800		**3VA2580-6HK42-0AA0**			**3VA2580-7HK42-0AA0**			**--**	
1000		**3VA2510-6HK42-0AA0**			**3VA2510-7HK42-0AA0**			**--**	

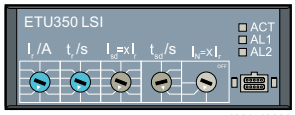
© Siemens 2019

2

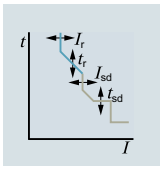
PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

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	SD	**I_{cu} up to 55 kA at 415 V, medium breaking capacity M** (M) See "Overview", p. 2/8 and 2/9
		A	A	A	A	d	Article No. www.siemens.com/product?Article No. / Basic price per PU

4-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A
Electronic trip unit

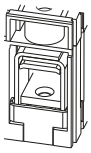


I201_18828



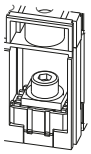
Line and generator protection, ETU350 LSI

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%, 50% or 100% (50% only from $I_n \geq 100$ A)



Connection with box terminal

	I_n	I_r x ...	I_{sd}	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 nut keeper kit

	I_n	I_r x ...	I_{sd}	I_i	
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**
3VA25	630	250 ... 630	1.5 ... 10	7560	**3VA2563-5HN42-0AA0**
	800	320 ... 800	1.5 ... 10	8000	**3VA2580-5HN42-0AA0**
	1000	400 ... 1000	1.5 ... 10	10000	**3VA2510-5HN42-0AA0**

1) At breaking capacity L 4400 A

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L (L) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d			d		
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%, 50% or 100% (50% only from $I_n \geq 100$ A)									
		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 nut keeper kit							
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**	
630		**3VA2563-6HN42-0AA0**			**3VA2563-7HN42-0AA0**			**--**	
800		**3VA2580-6HN42-0AA0**			**3VA2580-7HN42-0AA0**			**--**	
1000		**3VA2510-6HN42-0AA0**			**3VA2510-7HN42-0AA0**			**--**	

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

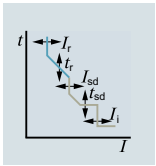
© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 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	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/8 and 2/9	
		A	A	A	A	d	Article No. www.siemens.com/product?Article No.	Basic price per PU

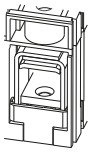
4-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A
Electronic trip unit

I201_18480



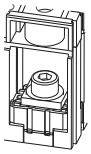
Line and generator protection, with display, ETU550 LSI

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

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**
3VA25	630	250 ... 630	378 ... 6300	945 ... 7560	**3VA2563-5JP42-0AA0**
	800	320 ... 800	480 ... 8000	1200 ... 8000	**3VA2580-5JP42-0AA0**
	1000	400 ... 1000	600 ... 10000	1500 ... 10000	**3VA2510-5JP42-0AA0**

[1] At breaking capacity L 4400 A

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L (L) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d			d		
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, 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 nut keeper kit							
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**	
630		**3VA2563-6JP42-0AA0**			**3VA2563-7JP42-0AA0**			**--**	
800		**3VA2580-6JP42-0AA0**			**3VA2580-7JP42-0AA0**			**--**	
1000		**3VA2510-6JP42-0AA0**			**3VA2510-7JP42-0AA0**			**--**	

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

© Siemens 2019

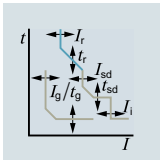
Line protection

PU (UNIT, SET, M) = 1 PS = 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	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/8 and 2/9	
		A	A	A	A	d	Article No. www.siemens.com/product?Article No.	Basic price per PU

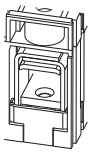
4-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A
Electronic trip unit

I201_18481



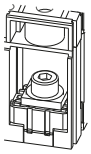
Line and generator protection, with display, ETU560 LSIG

With adjustable overload protection I_r, adjustable delayed short-circuit protection I_{sd} and adjustable 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 nut keeper kit

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

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L (L) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d			d		
Line and generator protection, with display, ETU560 LSIG With adjustable overload protection I_r, adjustable delayed short-circuit protection I_{sd} and adjustable 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 nut keeper kit							
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**	

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

© Siemens 2019

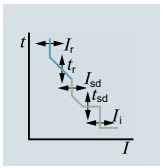
Line protection

PU (UNIT, SET, M) = 1 PS = 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	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
		A	A	A	A	d		

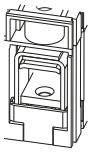
4-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A
Electronic trip unit

I201_18482



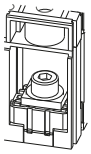
Line and generator protection, with display, with metering function, ETU850 LSI

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

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**

[1] At breaking capacity L 4400 A

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L (L) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d			d		
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, 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 nut keeper kit							
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**	

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

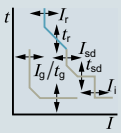
© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 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	SD	**I_{cu} up to 55 kA at 415 V, medium breaking capacity M** (M) See "Overview", p. 2/8 and 2/9	
		A	A	A	A	d	Article No. www.siemens.com/product?Article No.	Basic price per PU

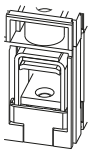
4-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A
Electronic trip unit

I201_18483



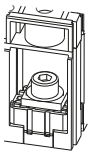
Line and generator protection, with display, with metering function, ETU860 LSIG

With adjustable overload protection I_r, adjustable delayed short-circuit protection I_{sd} and adjustable 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 nut keeper kit

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**
3VA25	630	250 ... 630	378 ... 6300	945 ... 7560	**3VA2563-5KQ42-0AA0**
	800	320 ... 800	480 ... 8000	1200 ... 8000	**3VA2580-5KQ42-0AA0**
	1000	400 ... 1000	600 ... 10000	1500 ... 10000	**3VA2510-5KQ42-0AA0**

[1] At breaking capacity L 4400 A

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L (L) See "Overview", p. 2/8 and 2/9
		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	d		d		d	
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 adjustable 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 nut keeper kit				
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**
630		**3VA2563-6KQ42-0AA0**		**3VA2563-7KQ42-0AA0**		**--**
800		**3VA2580-6KQ42-0AA0**		**3VA2580-7KQ42-0AA0**		**--**
1000		**3VA2510-6KQ42-0AA0**		**3VA2510-7KQ42-0AA0**		**--**

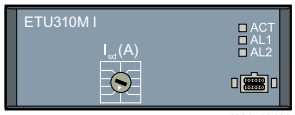
© Siemens 2019

Motor and starter protection

PU (UNIT, SET, M) = 1 PS = 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	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
		A	A	A	A	d		

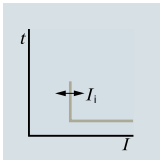
3-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A Electronic trip unit

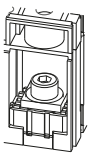


Starter protection, ETU310M I
With adjustable short-circuit protection I_i

Connection with box terminal

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

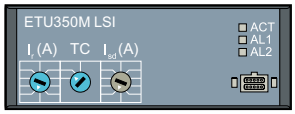




Connection with nut keeper kit

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	--

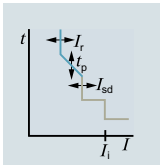
3-pole, fixed-mounted, 3VA20 to 3VA25, up to 800 A Electronic trip unit

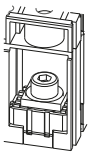


Motor protection, ETU350M LSI
With adjustable overload protection I_r (delay adjustable via trip class T_C (10A, 10/10E, 20/20E)), adjustable delayed short-circuit protection I_{sd}, and fixed instantaneous short-circuit protection I_i

Connection with box terminal

		I_r x ...	I_{sd} x ...	I_i	
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 nut keeper kit

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**
3VA25 NEW	630	250 ... 630	3 ... 15	9450	**3VA2563-5MN32-0AA0**
	800	320 ... 800	3 ... 12	9600	**3VA2580-5MN32-0AA0**

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
A	d			d		

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 nut keeper kit	**Connection with nut keeper kit**
25	--	3VA2125-7MS32-0AA0
40	--	3VA2140-7MS32-0AA0
63	--	3VA2163-7MS32-0AA0
100	--	3VA2110-7MS32-0AA0
160	--	3VA2216-7MS32-0AA0
200	--	3VA2220-7MS32-0AA0
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 nut keeper kit	**Connection with nut keeper kit**
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
NEW 630	--	3VA2563-7MN32-0AA0
800	--	3VA2580-7MN32-0AA0

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

© Siemens 2019

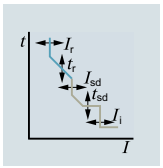
Motor protection

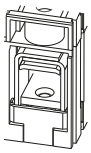
PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

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	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
		A	A	A	A	d		

3-pole, fixed-mounted, 3VA20 to 3VA25, up to 800 A Electronic trip unit

I201_19701



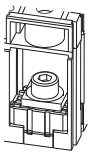


Motor protection, with display, ETU550M LSI NEW

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)) and adjustable delayed short-circuit protection I_{sd}

Connection with box terminal

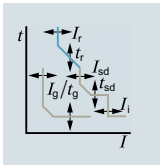
3VA21	NEW	25	10 ... 25	30 ... 375	75 ... 375	**3VA2125-5MP36-0AA0**
		40	16 ... 40	48 ... 600	120 ... 600	**3VA2140-5MP36-0AA0**
		63	25 ... 63	76 ... 945	189 ... 945	**3VA2163-5MP36-0AA0**
		100	40 ... 100	120 ... 1500	300 ... 1500	**3VA2110-5MP36-0AA0**

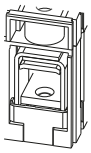


Connection with nut keeper kit

3VA21	NEW	25	10 ... 25	30 ... 375	75 ... 375	**3VA2125-5MP32-0AA0**
		40	16 ... 40	48 ... 600	120 ... 600	**3VA2140-5MP32-0AA0**
		63	25 ... 63	76 ... 945	189 ... 945	**3VA2163-5MP32-0AA0**
		100	40 ... 100	120 ... 1500	300 ... 1500	**3VA2110-5MP32-0AA0**
3VA22	NEW	160	63 ... 160	192 ... 2400	480 ... 2400	**3VA2216-5MP32-0AA0**
		200	80 ... 200	240 ... 3000	600 ... 3000	**3VA2220-5MP32-0AA0**
3VA23	NEW	250	100 ... 250	300 ... 3750	750 ... 3750	**3VA2325-5MP32-0AA0**
3VA24	NEW	400	160 ... 400	480 ... 6000	1200 ... 6000	**3VA2440-5MP32-0AA0**
		500	200 ... 500	600 ... 7500	1500 ... 7500	**3VA2450-5MP32-0AA0**
3VA25	NEW	630	250 ... 630	756 ... 9450	1890 ... 9450	**3VA2563-5MP32-0AA0**
		800	320 ... 800	960 ... 9600	2400 ... 9600	**3VA2580-5MP32-0AA0**

I201_18484



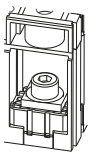


Motor protection, with display, with metering function, ETU860M LSIG

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	30 ... 375	75 ... 375	**3VA2125-5MQ36-0AA0**
	40	16 ... 40	48 ... 600	120 ... 600	**3VA2140-5MQ36-0AA0**
	63	25 ... 63	76 ... 945	189 ... 945	**3VA2163-5MQ36-0AA0**
	100	40 ... 100	120 ... 1500	300 ... 1500	**3VA2110-5MQ36-0AA0**



Connection with nut keeper kit

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**
3VA25 NEW	630	250 ... 630	756 ... 9450	1890 ... 9450	**3VA2563-5MQ32-0AA0**
	800	320 ... 800	960 ... 9600	2400 ... 9600	**3VA2580-5MQ32-0AA0**

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

© Siemens 2019

PU (UNIT, SET, M) = 1 PS = 1 UNIT PG = 1CB

	Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H (H) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C (C) See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product?Article No.	Basic price per PU
	A	d			d		

Motor protection, with display, ETU550M LSI NEW
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)) and adjustable delayed short-circuit protection I_{sd}

		Connection with box terminal	Connection with box terminal
NEW	25	--	3VA2125-7MP36-0AA0
	40	--	3VA2140-7MP36-0AA0
	63	--	3VA2163-7MP36-0AA0
	100	--	3VA2110-7MP36-0AA0

		Connection with nut keeper kit	Connection with nut keeper kit
NEW	25	--	3VA2125-7MP32-0AA0
	40	--	3VA2140-7MP32-0AA0
	63	--	3VA2163-7MP32-0AA0
	100	--	3VA2110-7MP32-0AA0
NEW	160	--	3VA2216-7MP32-0AA0
	200	--	3VA2220-7MP32-0AA0
	250	--	3VA2325-7MP32-0AA0
NEW	400	--	3VA2440-7MP32-0AA0
	500	--	3VA2450-7MP32-0AA0
NEW	630	--	3VA2563-7MP32-0AA0
	800	--	3VA2580-7MP32-0AA0

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

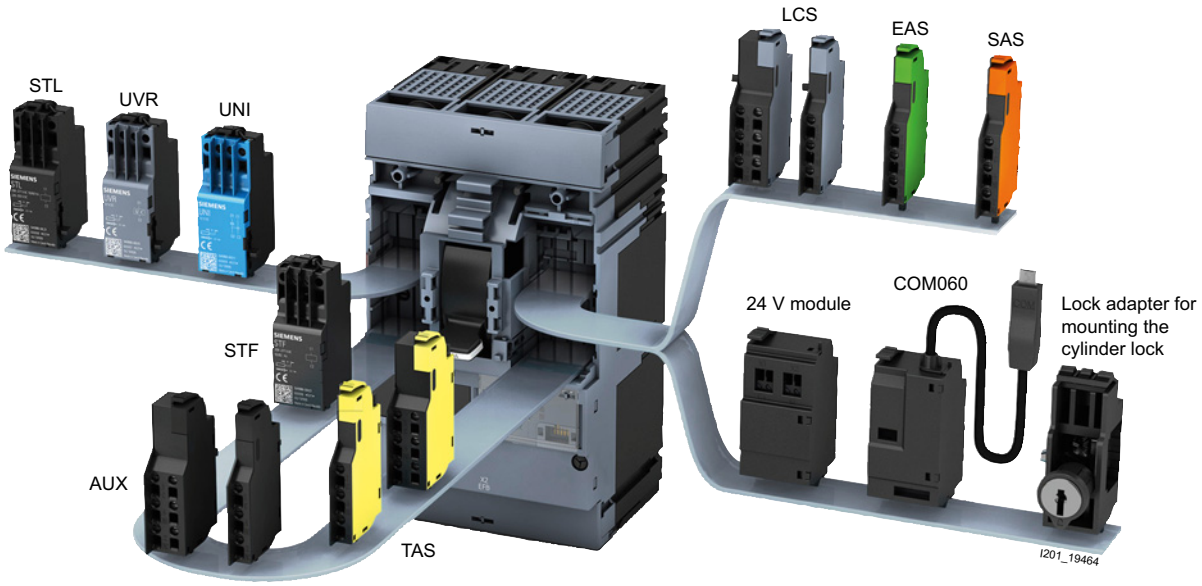
	Connection with nut keeper kit	Connection with nut keeper kit
25	--	3VA2125-7MQ32-0AA0
40	--	3VA2140-7MQ32-0AA0
63	--	3VA2163-7MQ32-0AA0
100	--	3VA2110-7MQ32-0AA0
160	--	3VA2216-7MQ32-0AA0
200	--	3VA2220-7MQ32-0AA0
250	--	3VA2325-7MQ32-0AA0
400	--	3VA2440-7MQ32-0AA0
500	--	3VA2450-7MQ32-0AA0
NEW 630	--	3VA2563-7MQ32-0AA0
800	--	3VA2580-7MQ32-0AA0

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

© Siemens 2019

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 (changeover contacts)	Auxiliary releases
Black	Auxiliary switch AUX	• Shunt trip left STL • Shunt trip flexible STF
Gray	Leading changeover switch LCS	Undervoltage release UVR
Yellow	Trip alarm switch 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. They are consistently designed as changeover contacts. 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 releases

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.

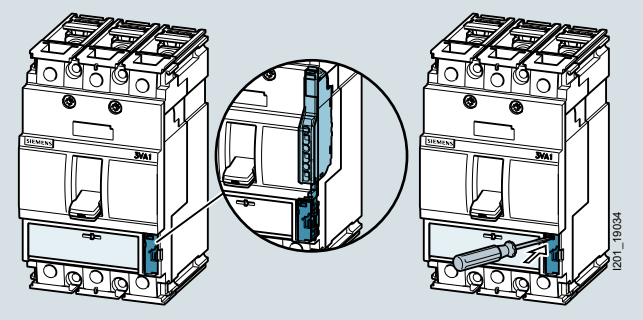
A universal release is a single, 21-mm-wide component in which a shunt trip and an undervoltage release are combined. These are subject to the same tripping conditions as the individual devices.

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

© Siemens 2019

Short circuit alarm switches 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 preassembled 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.

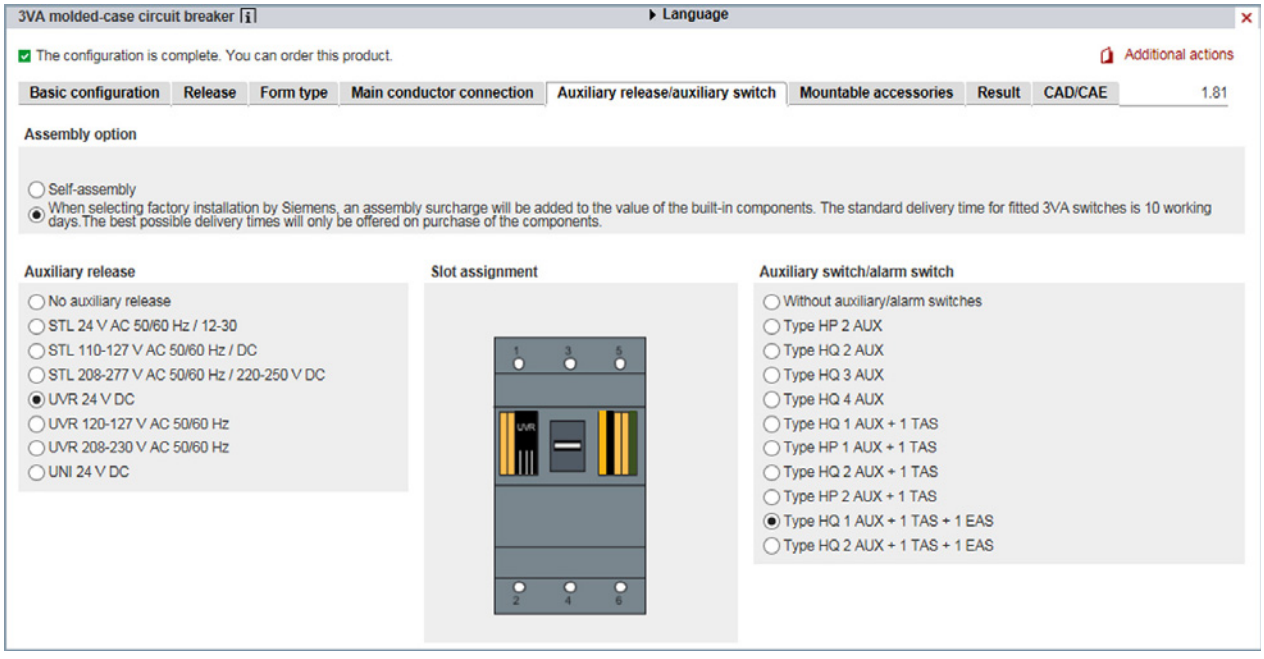
However, it is possible to order a basic circuit breaker with pre-defined combinations of internal accessories that are installed at the factory. This concerns a selection of different auxiliary releases and auxiliary/alarm switch combinations especially for each basic circuit breaker type.

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



© Siemens 2019

Design

2

Internal accessories Optional equipment		3VA11 2-pole	3VA10 3 and 4-pole	3VA11 3 and 4-pole	3VA12 3 and 4-pole
	Slot No.:	160 A 23 22 21	100 A 23 22 21 11 12 13	160 A 23 22 21 11 12 13	250 A 24 23 22 21 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
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 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
Undervoltage release	UVR	x	x	x	x
Universal release	UNI	x	x	x	x
Other					
Cylinder lock (type Ronis)			x	x	x

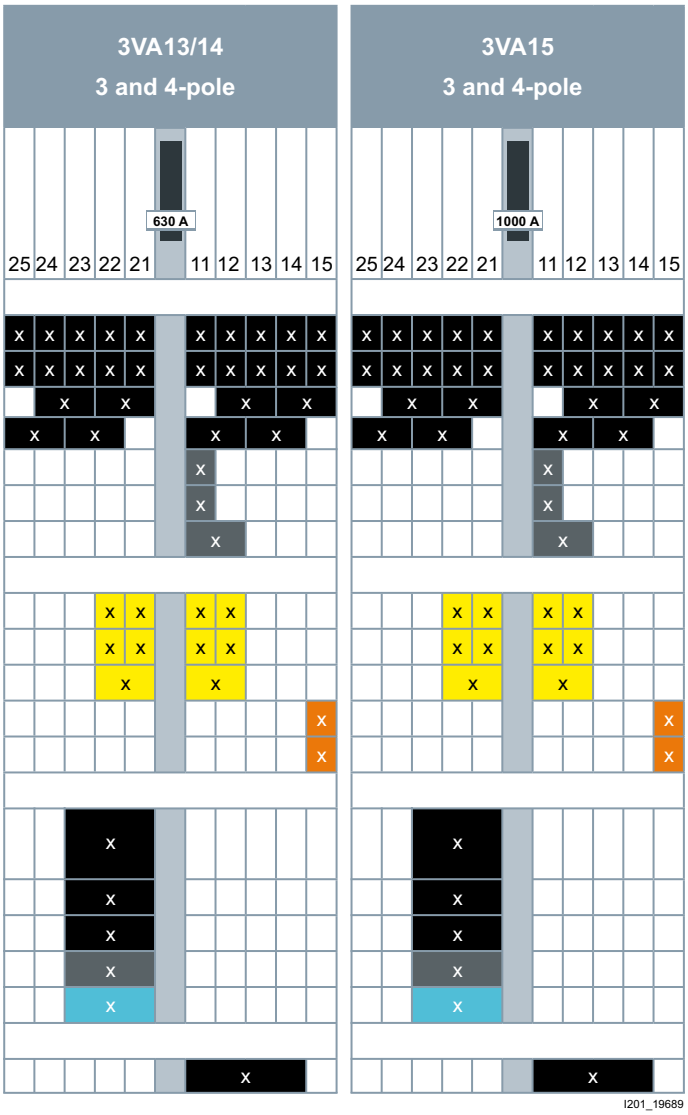
[1] Included in the scope of supply for side mounted residual current devices

I201_19033

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

© Siemens 2019

Internal accessories
Optional equipment



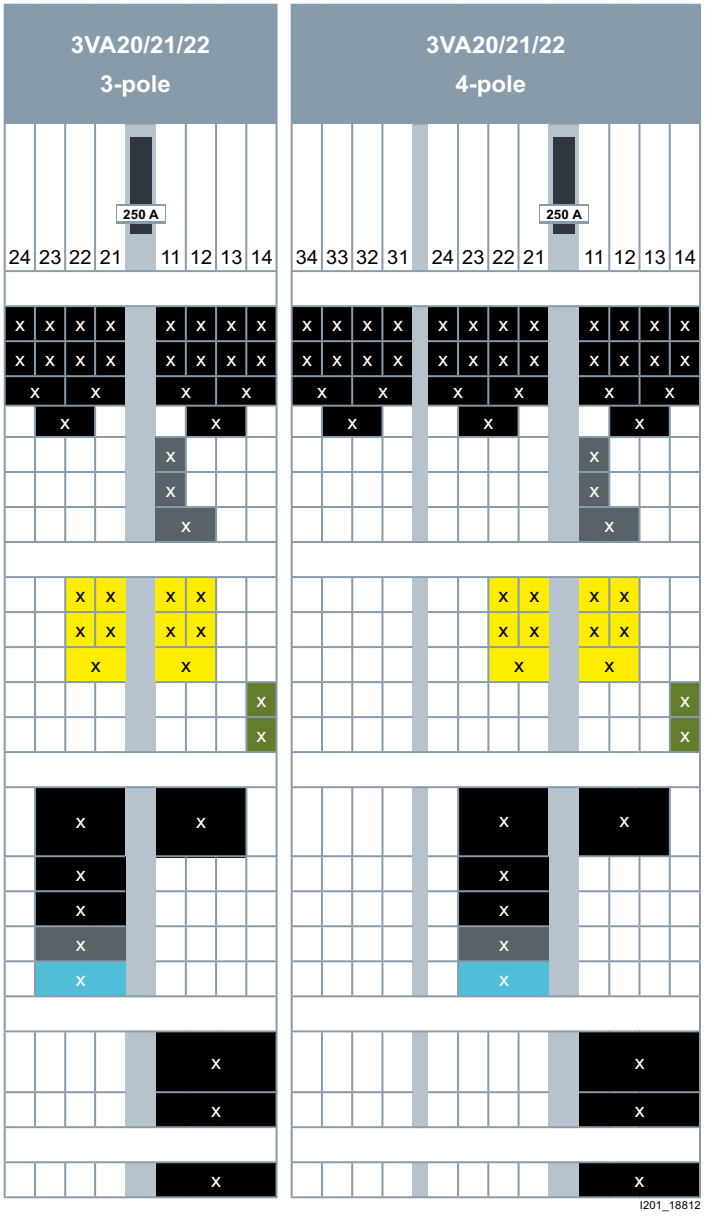
Slot No.:	
Auxiliary switch	**Type**
Auxiliary switch	AUX_HQ
	AUX_HQ_el
	AUX_HP
Leading changeover switch	LCS_HQ
	LCS_HQ_el
	LCS_HP
Alarm switch	**Type**
Trip alarm switch	TAS_HQ
	TAS_HQ_el
	TAS_HP
Short circuit alarm switch	SAS_HQ
	SAS_HQ_el
Auxiliary release	**Type**
Shunt trip flexible	STF
Shunt trip left	STL
	STL (EI)
Undervoltage release	UVR
Universal release	UNI
Other	
Cylinder lock (type Ronis)	

© Siemens 2019

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)	

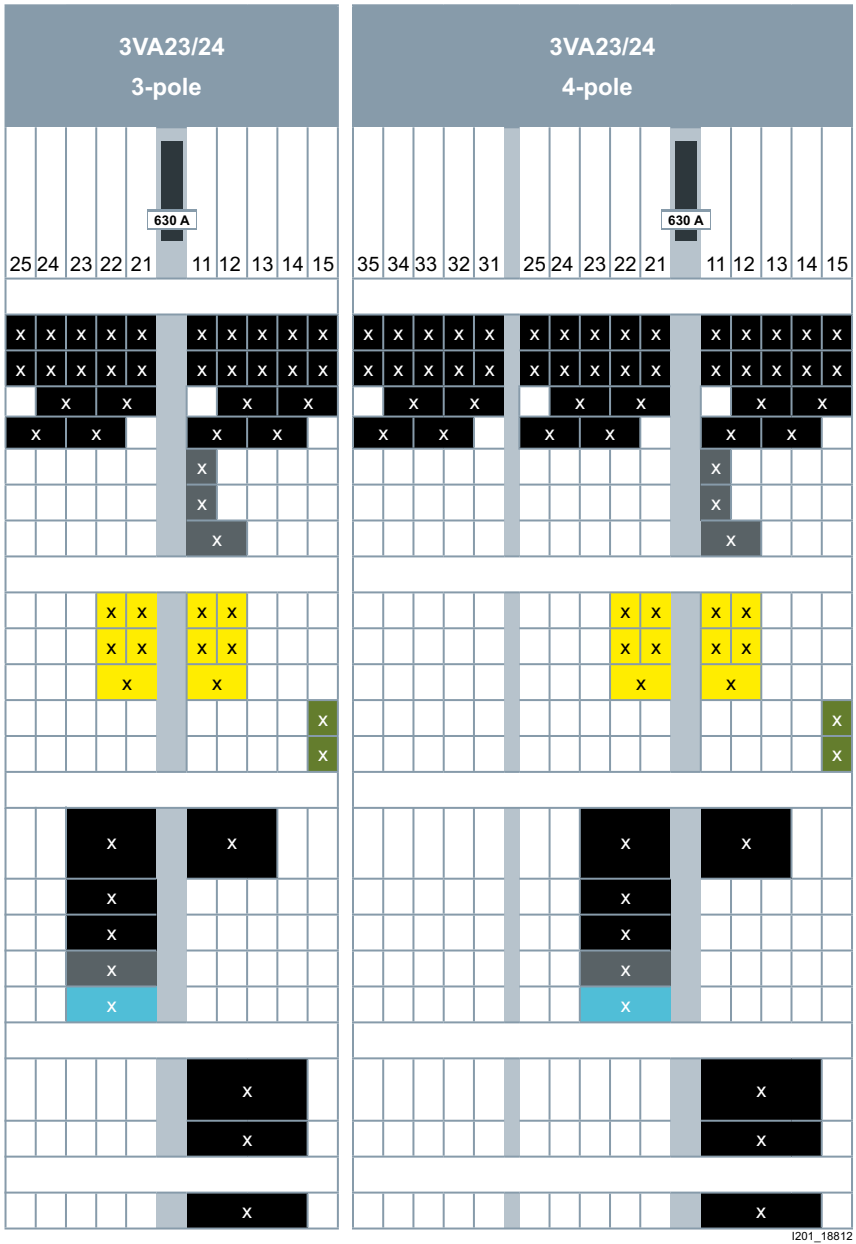


Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

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)	

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

© Siemens 2019

2

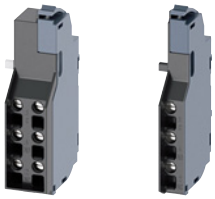
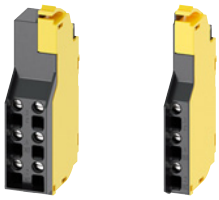
Internal accessories Optional equipment		3VA25 3-pole												3VA25 4-pole											
Slot No.:		24	23	22	21	1000 A		11	12	13	14	15	16	24	23	22	21	1000 A		11	12	13	14	15	16
Auxiliary switch	**Type**																								
Auxiliary switch	AUX_HQ	x	x	x	x					x	x	x	x	x	x	x	x					x	x	x	x
	AUX_HQ_el	x	x	x	x					x	x	x	x	x	x	x	x					x	x	x	x
	AUX_HP	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				
	TAS_HQ_el							x	x											x	x				
	TAS_HP							x												x					
Electrical alarm switch	EAS_HQ												x												x
	EAS_HQ_el												x												x
Auxiliary release	**Type**																								
Shunt trip flexible	STF		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					
Module 24 V								x												x					

I201_19504

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

© Siemens 2019

Selection and ordering data

	Version	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Auxiliary switches and alarm switches (changeover contacts)							
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 switch SAS (3VA1 only)**						
	For molded case circuit breakers/ Article No. stem — Electronic-compatible						
	For 3VA10, 3VA11						
	• HQ/compact size/1 slot — --		**3VA9988-0AB32**		1	1 unit	1CB
	• HQ_el/compact size/1 slot — ✓		**3VA9988-0AB33**		1	1 unit	1CB
	For 3VA12, 3VA13 and 3VA14						
	• 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 switch 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

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

© Siemens 2019

Internal accessories

Undervoltage releases

3VA9908-0BB15

Undervoltage release UVR

50/60 Hz V AC	V DC	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
--	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

Shunt trip left

3VA9988-0BL33

Shunt trip left STL

50/60 Hz V AC	V DC	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
--	12	**3VA9988-0BL10**		1	1 unit	1CB
24	24 ... 30	**3VA9988-0BL30**		1	1 unit	1CB
48 ... 60	48 ... 60	**3VA9988-0BL31**		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	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
--	24	**3VA9988-0BM10**		1	1 unit	1CB

Shunt trip flexible STF

3VA9988-0BA23

Shunt trip flexible

50/60 Hz V AC	V DC	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
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	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
--	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	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
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

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

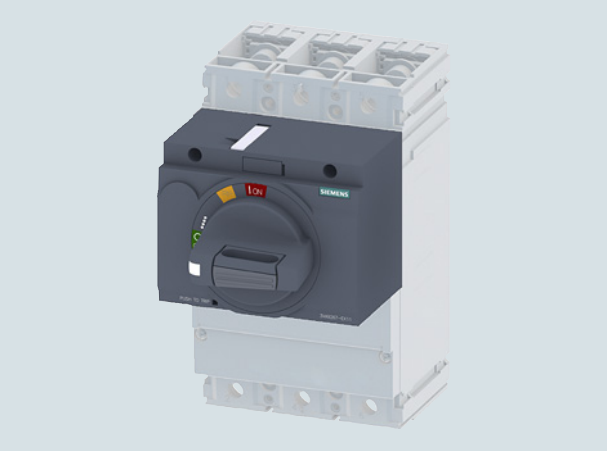
© Siemens 2019

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.

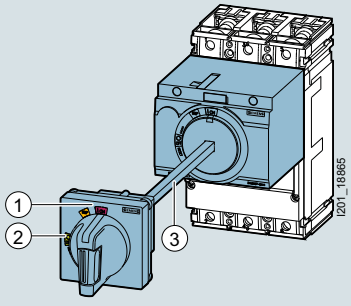
Front mounted rotary operator

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

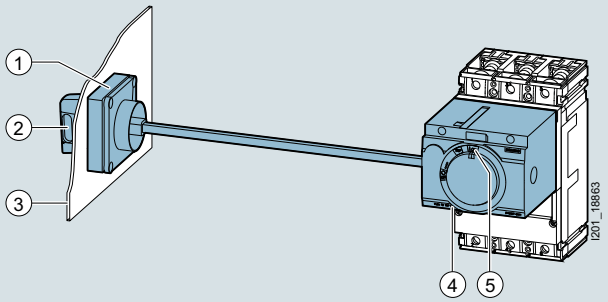
The door mounted rotary operator enables operation of the molded case circuit breaker from the cubicle door. The door element meets the requirements for degree of protection IP65 and features a door interlocking system and tolerance compensation. A variable depth adapter can be deployed to allow use 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 operator

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 rmoved 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, blocking and interlocking for all manual operators prevents unauthorized breaker operation
- Conspicuously colored variant for EMERGENCY-OFF circuits
- Illumination for clear indication of the breaker status even when light conditions are poor
- All manual operators meet the standards for isolating characteristics defined by IEC/EN 60947-1

© Siemens 2019

Manual operators

Selection and ordering data

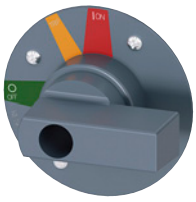
2

	Version		For molded case circuit breakers/ Article No. stem					SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	d					
Front mounted rotary operators													
3VA9267-0EK11	**Front mounted rotary operators** • Rotary operator • Handle • For IEC • Degree of protection IP30 • For 3-pole and 4-pole breakers												
	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
			--	--	--	--	✓		**3VA9687-0EK11**		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
			--	--	--	--	✓		**3VA9687-0EK15**		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
			--	--	--	--	✓ NEW		**3VA9687-0EK21**		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
			--	--	--	--	✓ NEW		**3VA9687-0EK25**		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	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
			--	--	--	--	✓ [1]		**3VA9687-0GK00**		1	1 unit	1CB

[1] This version already includes the adapter 8UD1900-4DA00.

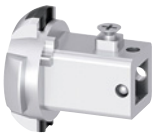
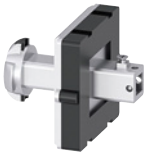
Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

	Version		For molded case circuit breakers/ Article No. stem					SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	d					
Door mounted rotary operators													
3VA9267-0FK21	**Door mounted rotary operator** • Rotary operator • Shaft 300 mm (325 mm for 1000 A) • Mounting tolerance compensation • Handle with masking plate 75 × 75 mm • Degree of protection IP65 • For 3-pole and 4-pole breakers												
	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
			--	--	--	--	✓		**3VA9687-0FK21**		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
			--	--	--	--	✓		**3VA9687-0FK25**		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
	• Standard, without tolerance compensation *NEW*	Gray	✓	--	--	--	--		**3VA9157-0FK61**		1	1 unit	1CB
			--	✓	--	--	--		**3VA9257-0FK61**		1	1 unit	1CB
			--	--	✓	--	--		**3VA9267-0FK61**		1	1 unit	1CB
			--	--	--	✓	--		**3VA9467-0FK61**		1	1 unit	1CB
			--	--	--	--	✓		**3VA9687-0FK61**		1	1 unit	1CB
 3VA9487-0GC01	**Supplementary handle for door mounted rotary operator** For operation when cabinet door is open												
	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**												
	Versions												
	• 8 mm												
	- 300 mm long		✓	✓	✓	✓	--		**8UD1900-2WA00**		1	1 unit	1CB
	- 600 mm long		✓	✓	✓	✓	--		**8UD1900-2WB00**		1	1 unit	1CB
8UD1900-4WB00	• 12 mm												
	- 325 mm long		--	--	--	--	✓		**8UD1900-4WA00**		1	1 unit	1CB
	- 600 mm long		--	--	--	--	✓		**8UD1900-4WB00**		1	1 unit	1CB

© Siemens 2019

Manual operators

	Version	For molded case circuit breakers/ Article No. stem 3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	Adapter for shaft											
	Versions											
8UD1900-2DA00	• 8 mm x 8 mm With door mounted rotary operator and side wall mounted rotary operator	✓	✓	✓	✓	--		**8UD1900-2DA00**		1	1 unit	1CB
8UD1900-4DA00	• 12 mm x 12 mm With door mounted rotary operator	--	--	--	--	✓		**8UD1900-4DA00**		1	1 unit	1CB
	Door coupling											
	Versions											
8UD1900-2HA00	• 8 mm x 8 mm	✓	✓	✓	✓	--		**8UD1900-2HA00**		1	1 unit	1CB
 8UD1900-4HA00	• 12 mm x 12 mm	--	--	--	--	✓		**8UD1900-4HA00**		1	1 unit	1CL
	Mounting tolerance compensation											
	Versions											
8UD1900-2GA00	• 8 mm x 8 mm	✓	✓	✓	✓	--		**8UD1900-2GA00**		1	1 unit	1CB
 8UD1900-4GA00	• 12 mm x 12 mm	--	--	--	--	✓		**8UD1900-4GA00**		1	1 unit	1CL
3VA9487-0GA80	**Fixing bracket for shaft**	✓	✓	--	--	--		**3VA9287-0GA80**		1	1 unit	1CB
		--	--	✓	✓	--		**3VA9487-0GA80**		1	1 unit	1CB
3VA9487-0GB10	**Variable depth adapter** 8 × 8 mm							**3VA9487-0GB10**		1	1 unit	1CB

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

© Siemens 2019

	Version		For molded case circuit breakers/ Article No. stem				SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d					
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 - For 3-pole and 4-pole breakers											
3VA9267-0PK11	Type	Color										
	• 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
	Side wall mounted rotary operators • With mounting plate - Rotary operator with short shaft - Handle with masking plate 75 x 75 mm - Degree of protection IP65 - For 3-pole and 4-pole breakers											
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

© Siemens 2019

Manual operators

Handles

8UD1731-0AB11

Handles
• With masking plate

Version			For molded case circuit breakers/ Article No. stem					SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	d					
Type	Color	Tolerance compen-sation											
• Standard	Gray	Without	✓	✓	✓	--	--		**8UD1721-0AB11**		1	1 unit	1CB
		With	✓	✓	✓	--	--		**8UD1721-0AB21**		1	1 unit	1CB
		Without	--	--	--	✓	--		**8UD1731-0AB11**		1	1 unit	1CB
		With	--	--	--	✓	--		**8UD1731-0AB21**		1	1 unit	1CB
		Without	--	--	--	--	✓		**8UD1741-0AB11**		1	1 unit	1CB
		With	--	--	--	--	✓		**8UD1741-0AB21**		1	1 unit	1CB
• EMERGEN-CY-OFF	Yellow-red	Without	✓	✓	✓	--	--		**8UD1721-0AB15**		1	1 unit	1CB
		With	✓	✓	✓	--	--		**8UD1721-0AB25**		1	1 unit	1CB
		Without	--	--	--	✓	--		**8UD1731-0AB15**		1	1 unit	1CB
		With	--	--	--	✓	--		**8UD1731-0AB25**		1	1 unit	1CB
		Without	--	--	--	--	✓		**8UD1741-0AB15**		1	1 unit	1CB
		With	--	--	--	--	✓		**8UD1741-0AB25**		1	1 unit	1CB
Spare part: Handle lever extension			--	--	--	--	✓		**3VA9987-0SC10**		1	1 unit	1CB
Note			--	--	--	✓ NEW	--		**3VA9487-0SC10**		1	1 unit	1CB
The handle lever extension is already included in the scope of supply of the breakers.													

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

© Siemens 2019

	Version			SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
General accessories for manual operators									
3VA9087-0SX10	**Labeling plate for manual operators**				**3VA9087-0SX10**		1	10 units	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
3VA9980-0VL10	**Cylinder lock (type Ronis)** • Includes a lock with 2 keys • For locking or interlocking • For installation in all rotary operators • For mounting in the adapter kit for the accessories compartment								
		Key 1			**3VA9980-0VL10**		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)	For molded case circuit breakers							
		3VA1, 3VA2, 100 … 630 A			**3VA9980-0LF20**		1	1 unit	1CB
		3VA1/3VA2, 1000 A NEW			**3VA9680-0LF20**		1	1 unit	1CB

© Siemens 2019

Motor operators

2

Overview

MO310 side mounted motor operator

The MO310 side mounted motor operator is optimized for use 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 MO310 motor operator can also be locked with several padlocks.

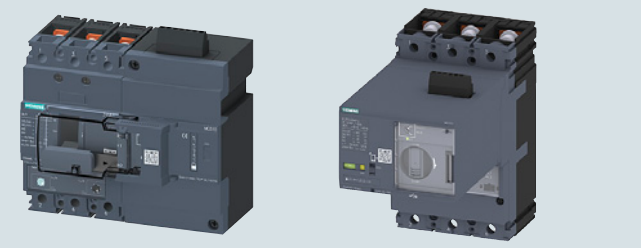
MO320 front mounted motor operator

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
- All motor operators are suitable for use with 3 and 4-pole molded case circuit breakers.

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 cover frame IP30
Rated control supply voltage (operating range of control supply voltage)	42 V ... 60 V AC/ 24 V ... 60 V DC (0.85 ... 1.26) 110 V ... 230 V AC/ 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 cover frame IP30			
Rated control supply voltage (operating range of control supply voltage)	24 V ... 60 V DC (0.85 ... 1.26) 110 V ... 230 V AC/ 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/ Article No. stem 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Motor operators											
3VA9117-0HB10	**Side mounted motor operator (MO310)**										
	Versions										
	• 24 ... 60 V DC 42 ... 60 V AC	✓	--	--	--		**3VA9117-0HB10**		1	1 unit	1CB
	• 110 ... 230 V AC, 110 ... 250 V DC	✓	--	--	--		**3VA9117-0HB20**		1	1 unit	1CB
3VA9267-0HA10	**Motor operator without stored energy operator (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, 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

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

© Siemens 2019

Overview

Motor operator with stored energy operator (SEO520) NEW

The motor operator with stored energy operator (SEO520) supplements the portfolio of 3VA motor operators with a synchronizable remote operator with optional communication link.

The motor operator with stored energy operator has two spring assemblies that are used to switch the 3VA2 molded case circuit breaker on and off quickly. This new principle in the MCCB area ensures fast, reliable and easily controllable switching sequences, especially in load transfer switching applications.

The spring assemblies can also be charged manually using a supplied tool to enable them to also be operated without supply voltage.

The SEO520 is equipped with an external voltage module in the control supply voltages 24 V DC, 42-60 V AC/DC and 110-230 V AC / 110-250 V DC that can be plugged in and out quickly, thus ensuring quick access to the main terminals of the 3VA molded case circuit breaker.

In addition to the front-accessible MO320 motor operator, another reset mode is also available. Further to automatic reset and reset via an OFF signal, the SEO520 has the option of being able to be reset after confirmation by an acknowledge signal.

Note:
On account of the fast switching times, the SEO520 cannot be used with a leading changeover switch LCS.

Communication option

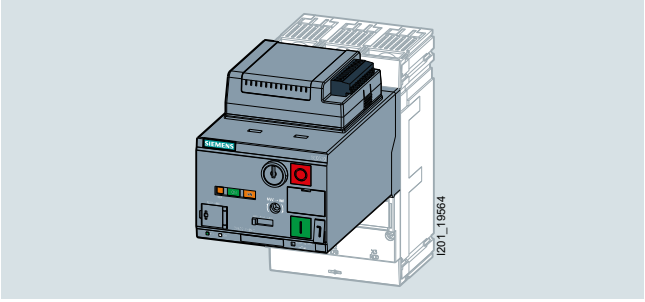
The SEO520 is also optionally available with communication functionality. A connection with the COM060 communication module integrates it into the communication environment of the 3VA molded case circuit breakers and ensures that the molded case circuit breaker can also be switched via the supported communication networks and the powerconfig and powermanager software packages.

Additional functions

Furthermore, the motor operator with stored energy operator can be locked in the OFF position by up to three padlocks. An optionally mountable cylinder lock (type Ronis) can be used to interlock the operating mode (manual/automatic).

The motor operator with stored energy operator features a clear indication of the breaker status which can mechanically indicate ON and OFF and, via LED, whether the circuit breaker has tripped (TRIP). The SEO520 therefore meets the standards for isolating characteristics defined by IEC/EN 60947-1.

A mechanical operating cycles counter can be optionally mounted that counts the operating cycles of the SEO520.



Benefits

- Synchronization capability with fast switching on and off by means of two spring assemblies
- Remote operation of the molded case circuit breaker by means of control cable commands or communication
- Locking capability prevents unauthorized operations
- Meets the standards for isolating characteristics defined by IEC/EN 60947-1

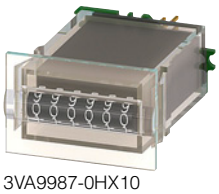
Technical specifications

SEO520 motor operator	**3VA2** 100/160/250 A
Degree of protection	IP20, with cover frame IP30
Rated control supply voltage (operating range of control supply voltage)	24 V DC (0.85 … 1.26) 42 V ... 60 V AC/ 42 V ... 60 V DC (0.85 ... 1.26) 110 V ... 230 V AC/ 110 V ... 250 V DC (0.85 ... 1.1)
Rating	300, max. 500 (60 ms)
Make time	< 80 ms
Break time	< 80 ms

© Siemens 2019

Motor operators

Selection and ordering data

	Version for molded case circuit breakers/frame size 3VA2 100 A, 160 A, 250 A		SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
Motor operators NEW								
3VA9267-0HC10	**Motor operator with stored energy operator (SEO520)**							
	Versions							
	Without a communication link	• 24 V DC		**3VA9267-0HC10**		1	1 unit	1CB
		• 42 ... 60 V AC/DC		**3VA9267-0HC20**		1	1 unit	1CB
		• 110 ... 230 V AC, 110 ... 250 V DC		**3VA9267-0HC30**		1	1 unit	1CB
	With a communication link	• 24 V DC		**3VA9267-0HC15**		1	1 unit	1CB
		• 110 ... 230 V AC, 110 ... 250 V DC		**3VA9267-0HC35**		1	1 unit	1CB
3VA9267-0HC30								
 3VA9987-0HX10	**Mechanical operating cycles counter** For installation in the SEO520			**3VA9987-0HX10**		1	1 unit	1CB
3VA9980-0LF30	**Cylinder lock adapter for SEO520** For installing cylinder locks in the SEO520			**3VA9980-0LF30**		1	1 unit	1CB
3VA9980-0VL10	**Cylinder lock (type Ronis)** • Includes a lock with 2 keys • For locking the operating mode (manual/auto/lock)							
		Key 1		**3VA9980-0VL10**		1	1 unit	1CB
		Key 3		**3VA9980-0VL30**		1	1 unit	1CB
		Key 4		**3VA9980-0VL40**		1	1 unit	1CB

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

© Siemens 2019

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:

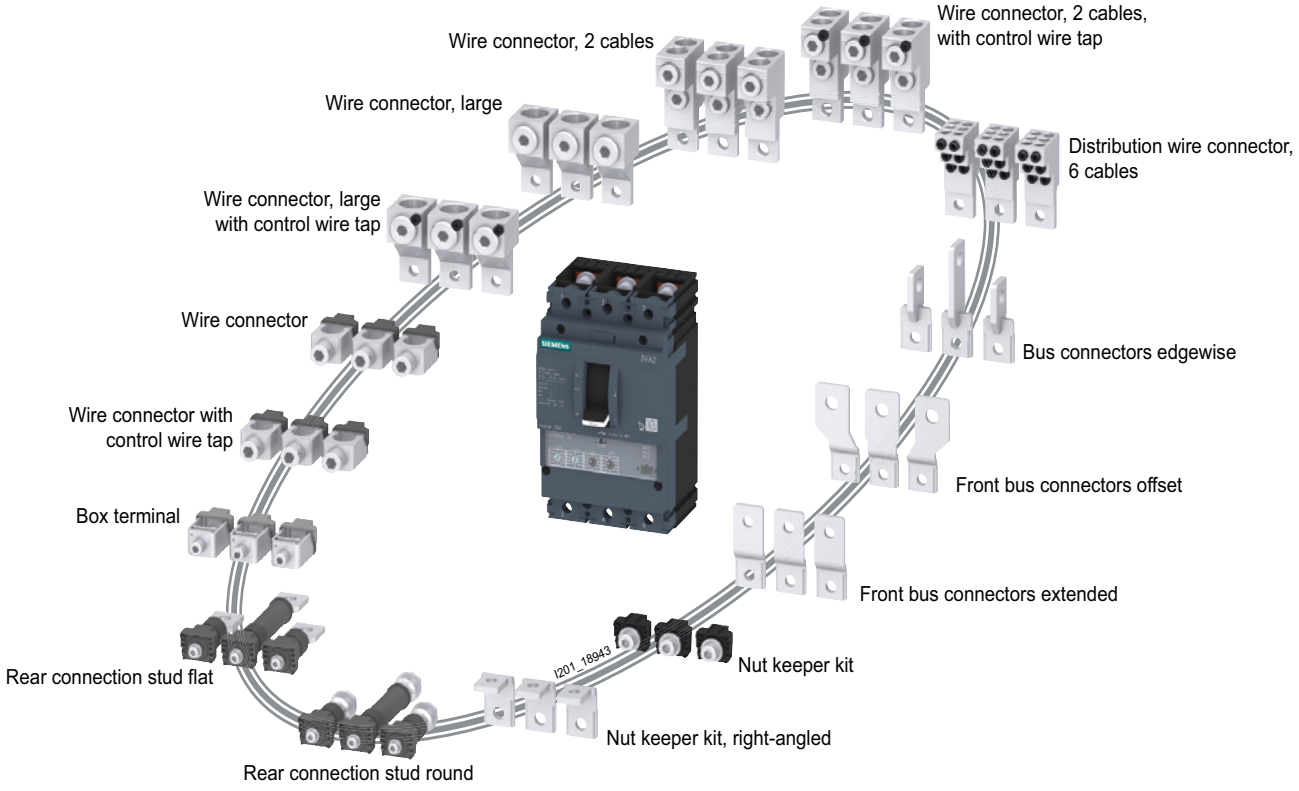
- Installation, e.g. connection to cables or busbars
- Dimensioning of the cables and busbars
- Installation medium, e.g. rigid or flexible

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.



© Siemens 2019

Connection technology

3VA1 conductor cross-sections

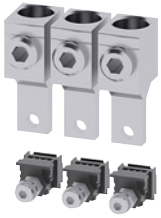
Connection technology	Cable medium	Cables and busbars	Dimensions	3VA1			
				3VA10 / 3VA11	3VA12	3VA13 / 3VA14	3VA15
Box terminal	Solid cable	Cu cable	mm^2	1 x 1.5 … 16	1 x 6 ... 16	--	--
	Stranded cable	Cu cable	mm^2	1 x 1.5 ... 70	1 x (6 ... 120), 1 x (50 ... 185)	1 x 35 ... 300[1)]	--
	Finely stranded cable	Cu cable	mm^2	1 x 1.5 ... 50	1 x (10 ... 95), 1 x (95 ... 150)	1 x 25 ... 240[1)]	--
	Finely stranded with insulated end sleeve	Cu cable	mm^2	1 x 1.5 ... 50	1 x (6 ... 95), 1 x (50 ... 150)	1 x 25 ... 240[1)]	--
	Flexible copper busbar	Flexible busbar	mm x mm	1 x 2x ..6x [13 x 0.5] ... 1 x 2x ..9x [9 x 0.8]	1 x 2x ..6x [13 x 0.5] ... 1 x 2x ..6x [15.5 x 0.8] ... 1 x 2x ..6x [20 x 1]	1 x 2x ..10x [20 x 1] ... 1 x 2x ..10x [24 x 1]	--
Wire connectors	Solid cable	Cu/Al cable	mm^2	1st terminal: 1 x 1.5/4 ... 10; 2nd terminal: 1 x 10 ... 16	--	--	--
	Stranded cable	Cu/Al cable	mm^2	1st terminal: 1 x 1.5/4 ... 10; 2nd terminal: 1 x 10 ... 95	1 x 35 ... 185	1 x 50 ... 300[1)]	--
	Finely stranded cable	Cu cable	mm^2	1st terminal: 1 x 1.5/4 ... 10; 2nd terminal: 1 x 10 ... 35	1 x 35 ... 150	1 x 50 ... 240[1)]	--
	Finely stranded with insulated end sleeve	Cu cable	mm^2	1st terminal: 1 x 1.5/4 ... 10; 2nd terminal: 1 x 10 ... 35	1 x 35 ... 150	1 x 50 ... 240[1)]	--
Wire connector, large	Solid cable			--	--	--	--
	Stranded cable	Cu/Al cable	mm^2	1 x 25 ... 150	1 x 50 ... 240	--	--
	Finely stranded cable	Cu cable	mm^2	1 x 25 ... 120	1 x 50 ... 185	--	--
	Finely stranded with insulated end sleeve	Cu cable	mm^2	1 x 25 ... 95	1 x 50 ... 185	--	--
Wire connector for 2 cables	Solid cable			--	--	--	--
	Stranded cable	Cu/Al cable	mm^2	--	2 x 25 ... 150	2 x 70 ... 300	2 x 120 ... 300
	Finely stranded cable	Cu cable	mm^2	--	2 x 25 ... 150	2 x 70 ... 240	2 x 185
	Finely stranded with insulated end sleeve	Cu cable	mm^2	--	2 x 25 ... 70	2 x 70 ... 185	2 x 120 ... 185
Distribution wire connector for 6 cables	Solid cable	Cu/Al cable	mm^2	6 x 1.5/4 ... 16	6 x 1.5/4 ... 16	6 x 1.5/4 ... 16	--
	Stranded cable	Cu/Al cable	mm^2	6 x 1.5/4 ... 35	6 x 1.5/4 ... 35	6 x 1.5/4 ... 35	--
	Finely stranded cable	Cu cable	mm^2	6 x 1.5 ... 25	6 x 1.5 ... 25	6 x 1.5 ... 25	--
	Finely stranded with insulated end sleeve	Cu cable	mm^2	6 x 1.5 ... 25	6 x 1.5 ... 25	6 x 1.5 ... 25	--
Wire connector for 3 cables	Solid cable			--	--	--	--
	Stranded cable	Cu/Al cable	mm^2	--	--	--	3x 120 ...185
	Finely stranded cable	Cu cable	mm^2	--	--	--	--
	Finely stranded with insulated end sleeve	Cu cable	mm^2	--	--	--	3x 120
Front busbar connector	Direct (width x height)	Busbar	mm x mm	17 x 6.5	25 x 8	35 x 10	50 x 28
	Front bus connectors extended	Busbar	mm x mm	22 x 8	32 x 10	40 x 12.5	50 x 28
	Front bus connectors offset	Busbar	mm x mm	30 x 8	35 x 10	60 x 12.5	--

[1)] Only approved up to rated current 400 A

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

© Siemens 2019

3VA2 conductor cross-sections

Connection technology	Cable medium	Cables and busbars	Dimensions	3VA2		
				3VA20 / 3VA21 / 3VA22	3VA23 / 3VA24	3VA25
Box terminal	Solid cable	Cu cable	mm^2	1 x 6 ... 16	--	--
	Stranded cable	Cu cable	mm^2	1 x (6 ... 120), 1 x (25 ... 185)	1 x 35 ... 300[1)]	--
	Finely stranded cable	Cu cable	mm^2	1 x (10 ... 95), 1 x (35 ... 150)	1 x 25 ... 240[1)]	--
	Finely stranded with insulated end sleeve	Cu cable	mm^2	1 x (6 ... 95), 1 x (25 ... 150)	1 x 25 ... 240[1)]	--
	Flexible copper busbar	Flexible busbar	mm x mm	1 x 2x ..6x [13 x 0.5] ... 1 x 2x ..6x [15.5 x 0.8] ... 1 x 2x ..6x [20 x 1]	1 x 2x ..10x [20 x 1] ... 1 x 2x ..10x [24 x 1]	--
Wire connectors	Solid cable	Cu/Al cable	mm^2	1 x 1.5/4 ... 16	--	--
	Stranded cable	Cu/Al cable	mm^2	1 x 1.5/4 ... 50 1 x 16 ... 185	1 x 50 ... 300[1)]	--
	Finely stranded cable	Cu cable	mm^2	1 x (1.5 ... 35), 1 x (25 ... 150)	1 x 50 ... 240[1)]	--
	Finely stranded with insulated end sleeve	Cu cable	mm^2	1 x (1.5 ... 35), 1 x (16 ... 120)	1 x 50 ... 240[1)]	--
Wire connector, large 	Solid cable			--	--	--
	Stranded cable	Cu/Al cable	mm^2	1 x 50 ... 240	--	--
	Finely stranded cable	Cu cable	mm^2	1 x 50 ... 185	--	--
	Finely stranded with insulated end sleeve	Cu cable	mm^2	1 x 50 ... 185	--	--
Wire connector for 2 cables	Solid cable			--	--	--
	Stranded cable	Cu/Al cable	mm^2	2 x 25 ... 150	2 x 70 ... 300	2 x 120 ... 300
	Finely stranded cable	Cu cable	mm^2	2 x 25 ... 150	2 x 70 ... 240	2 x 185
	Finely stranded with insulated end sleeve	Cu cable	mm^2	2 x 25 ... 70	2 x 70 ... 185	2 x 120 ... 185
Distribution wire connector for 6 cables	Solid cable	Cu/Al cable	mm^2	6 x 1.5/4 ... 16	6 x 1.5/4 ... 16	--
	Stranded cable	Cu/Al cable	mm^2	6 x 1.5/4 ... 35	6 x 1.5/4 ... 35	--
	Finely stranded cable	Cu cable	mm^2	6 x 1.5 ... 25	6 x 1.5 ... 25	--
	Finely stranded with insulated end sleeve	Cu cable	mm^2	6 x 1.5 ... 25	6 x 1.5 ... 25	--
Wire connector for 3 cables	Solid cable	Cu/Al cable	mm^2	--	--	--
	Stranded cable	Cu/Al cable	mm^2	--	--	3 x 120 ... 185
	Finely stranded cable	Cu cable	mm^2	--	--	--
	Finely stranded with insulated end sleeve	Cu cable	mm^2	--	--	3 x 120
Front busbar connector	Direct (width x height)	Busbar	mm x mm	25 x 8	35 x 10	50 x 28
	Front bus connectors extended	Busbar	mm x mm	32 x 10	40 x 12.5	50 x 28
	Front bus connectors offset	Busbar	mm x mm	35 x 10	60 x 12.5	--

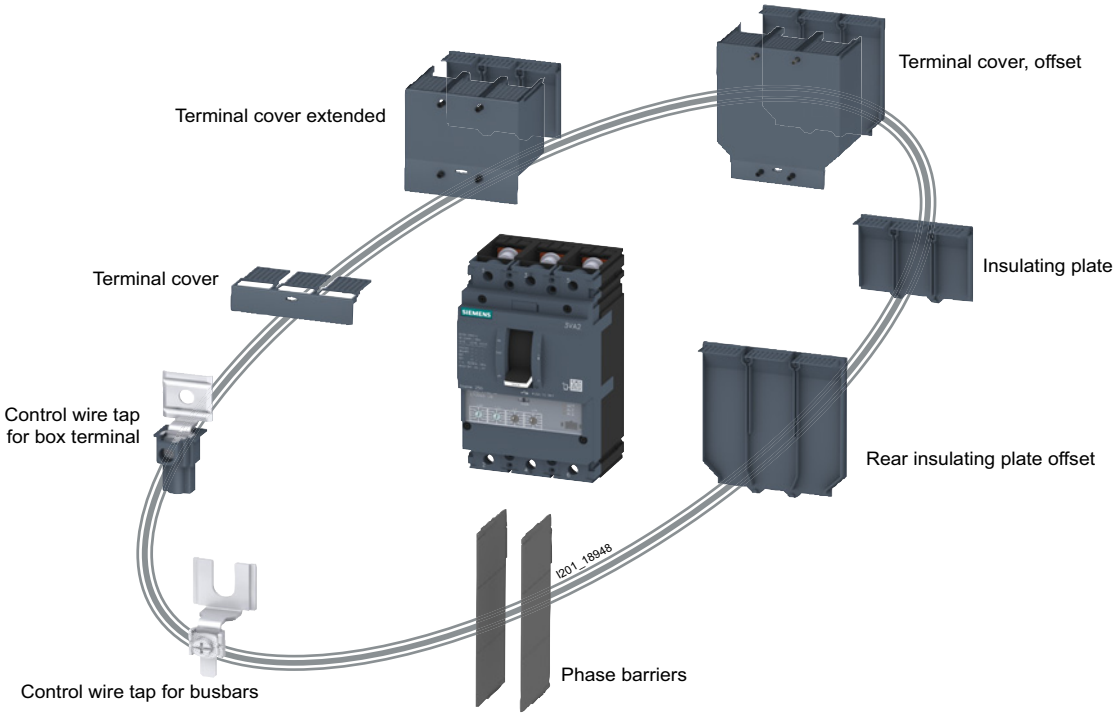
[1)] Only approved up to rated current 400 A

© Siemens 2019

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, nut keeper kit, 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.
- Offset terminal covers are required when front bus connectors offset are installed. The extended terminal cover consists of two parts, a rear insulating plate offset 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 bus connector extended, for example
- Rear insulating plate offset: in combination with front bus connectors offset, for example

Control wire taps

All wire connectors can be ordered with or without control wire tap (see page 2/14, Front terminals). The following accessories are available to allow the implementation of a control wire tap in combination with a box terminal or busbar connection:

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

All control wire taps are rated for a maximum load of 15 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

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

© Siemens 2019

Selection and ordering data

	Version	Minimum for stranded cable	Maximum for stranded cable	For molded case circuit breakers/ Article No. stem					SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	d					
Box terminals suitable for all installation types (fixed-mounted, 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	--	--	--	✓[1]	--		**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	--	--	--	✓[1]	--		**3VA9484-0JA13**		1	1 unit	1CB
Wire connectors suitable for all installation types (fixed-mounted, plug-in and draw-out versions)														
3VA9103-0JB11	**Wire connector** • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals	1.5 mm²	10 mm²	✓ NEW	--	--	--	--		**3VA9113-0JB10**		1	1 unit	1CB
		10 mm²	95 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	--	--	--	✓[2]	--		**3VA9383-0JB13**		1	1 unit	1CB
3VA9503-0JB23	**Wire connector, 2 cables** • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals and 1 terminal cover, short	120 mm²	300 mm²	--	--	--	--	✓		**3VA9503-0JB23**		1	1 unit	1CB
3VA9503-0JB32	**Wire connector, 3 cables** • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals and 1 terminal cover, short	120 mm²	185 mm²	--	--	--	--	✓ NEW		**3VA9503-0JB32**		1	1 unit	1CB
3VA9104-0JB11	**Wire connector** • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals	1.5 mm²	10 mm²	✓ NEW	--	--	--	--		**3VA9114-0JB10**		1	1 unit	1CB
		10 mm²	95 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	--	--	--	✓[2]	--		**3VA9384-0JB13**		1	1 unit	1CB

[1] Only approved up to rated current 400 A

[2] Maximum current-carrying capacity of copper cables 380 A
Maximum current-carrying capacity of aluminum cables 310 A

© Siemens 2019

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Connection technology – suitable for all installation types (fixed-mounted, plug-in and draw-out versions)

	Version	Minimum for stranded cable	Maximum for stranded cable	For molded case circuit breakers/ Article No. stem					SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	d					
3VA9504-0JB23	**Wire connector, 2 cables** • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals and 1 terminal cover, short	120 mm²	300 mm²	--	--	--	--	✓		**3VA9504-0JB23**		1	1 unit	1CB
3VA9504-0JB32	**Wire connector, 3 cables** • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals and 1 terminal cover, short	120 mm²	185 mm²	--	--	--	--	✓ NEW		**3VA9504-0JB32**		1	1 unit	1CB
3VA9103-0JG11	**Wire connector with control wire tap** • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals	1.5 mm²	10 mm²	✓ NEW	--	--	--	--		**3VA9113-0JG10**		1	1 unit	1CB
		10 mm²	95 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	--	--	--	✓[1)]	--		**3VA9383-0JG13**		1	1 unit	1CB
3VA9503-0JG23	**Wire connector, 2 cables, with control wire tap** • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals and 1 terminal cover, short	120 mm²	300 mm²	--	--	--	--	✓		**3VA9503-0JG23**		1	1 unit	1CB
3VA9503-0JG32	**Wire connector, 3 cables, with control wire tap** • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals and 1 terminal cover, short	120 mm²	185 mm²	--	--	--	--	✓ NEW		**3VA9503-0JG32**		1	1 unit	1CB
3VA9104-0JG11	**Wire connector with control wire tap** • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals	1.5 mm²	10 mm²	✓ NEW	--	--	--	--		**3VA9114-0JG10**		1	1 unit	1CB
		10 mm²	95 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	--	--	--	✓[1)]	--		**3VA9384-0JG13**		1	1 unit	1CB

[1)] Maximum current-carrying capacity of copper cables 380 A
Maximum current-carrying capacity of aluminum cables 310 A

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

© Siemens 2019

Connection technology – suitable for all installation types (fixed-mounted, plug-in and draw-out versions)

	Version	Minimum for stranded cable	Maximum for stranded cable	For molded case circuit breakers/ Article No. stem 3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
 3VA9504-0JG23	**Wire connector, 2 cables, with control wire tap** • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals and 1 terminal cover, short	120 mm²	300 mm²	--	--	--	--	✓		**3VA9504-0JG23**		1	1 unit	1CB
 3VA9504-0JG32	**Wire connector, 3 cables, with control wire tap** • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals and 1 terminal cover, short	120 mm²	185 mm²	--	--	--	--	✓ NEW		**3VA9504-0JG32**		1	1 unit	1CB

	Version	Max. tap width	Max. tap thickness	For molded case circuit breakers/ Article No. stem 3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Nut keeper kits suitable for all installation types (fixed-mounted, plug-in and draw-out versions)														
 3VA9203-0QA00	**Nut keeper kit** 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
 3VA9603-0QA00	**Nut keeper kit** Included in scope of supply: • Nut keeper kit for 3-pole breakers • 1 terminal cover	50 mm	28 mm	--	--	--	--	✓		**3VA9603-0QA00**		1	1 unit	1CB
 3VA9204-0QA00	**Nut keeper kit** 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
 3VA9604-0QA00	**Nut keeper kit** Included in scope of supply: • Nut keeper kit for 4-pole breakers • 1 terminal cover	50 mm	28 mm	--	--	--	--	✓		**3VA9604-0QA00**		1	1 unit	1CB

© Siemens 2019

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Connection technology – suitable for all installation types (fixed-mounted, plug-in and draw-out versions)

	Version	Max. tap width	Max. tap thickness	For molded case circuit breakers/ Article No. stem					SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	d					
Bus connectors extended suitable for all installation types (fixed-mounted, plug-in and draw-out versions)														
3VA9263-0QB00	**Front bus connectors 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
3VA9603-0QB00	**Front bus connectors extended** Included in scope of supply: • 3 single terminals • 2 phase barriers	50 mm	28 mm	--	--	--	--	✓		**3VA9603-0QB00**		1	1 unit	1CB
3VA9264-0QB00	**Front bus connectors 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
3VA9604-0QB00	**Front bus connectors extended** Included in scope of supply: • 4 single terminals • 3 phase barriers	50 mm	28 mm	--	--	--	--	✓		**3VA9604-0QB00**		1	1 unit	1CB
3VA9263-0QC00	**Front bus connectors offset** 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

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

© Siemens 2019

Connection technology – suitable for all installation types (fixed-mounted, plug-in and draw-out versions)

	Version	Max. tap width	Max. tap thickness	For molded case circuit breakers/ Article No. stem				SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d					
3VA9263-0QC00	**Front bus connectors offset** 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
3VA9263-0QD00	**Bus connectors 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	**Bus connectors 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
3VA9223-0QG00	**Nut keeper kit 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	**Nut keeper kit 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

© Siemens 2019

2

Connection technology – suitable for all installation types (fixed-mounted, plug-in and draw-out versions)

	Version	For molded case circuit breakers/ Article No. stem				SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d					
Rear connection studs flat suitable for all installation types (fixed-mounted, plug-in and draw-out versions)											
3VA9203-0QE00	**Rear connection stud flat** Included in scope of supply: • 2 short connection studs flat • 1 long connection stud 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 connection stud flat** Included in scope of supply: • 2 short connection studs flat • 2 long connection studs 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 connection stud flat** Included in scope of supply: • 1 short connection stud 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 connection stud flat** Included in scope of supply: • 1 long connection stud 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
Rear connection studs round suitable for all installation types (fixed-mounted, plug-in and draw-out versions)											
3VA9203-0QF00	**Rear connection stud round** Included in scope of supply: • 1 long connection stud round • 2 short connection studs round	✓	--	--	--		**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 connection stud round** Included in scope of supply: • 2 long connection studs round • 2 short connection studs round	✓	--	--	--		**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 connection stud round** Included in scope of supply: • 1 short connection stud round	✓	--	--	--		**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 connection stud round** Included in scope of supply: • 1 long connection stud round	✓	--	--	--		**3VA9111-0QF20**		1	1 unit	1CB
		--	✓	--	--		**3VA9211-0QF20**		1	1 unit	1CB
		--	--	✓	--		**3VA9201-0QF20**		1	1 unit	1CB
		--	--	--	✓		**3VA9401-0QF20**		1	1 unit	1CB

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

© Siemens 2019

	Version	For molded case circuit breakers/ Article No. stem					SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	d					
Phase barriers suitable for all installation types (fixed-mounted, 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
		--	--	--	--	✓		**3VA9602-0WA00**		1	1 unit	1CB

	Version	Max. tap width	Max. tap thickness	For molded case circuit breakers/ Article No. stem				SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d					
Bus connectors extended specially for fixed mounting													
3VA9151-0QB00	**Front bus connectors extended** Included in scope of supply: • 1 busbar connection piece	22 mm	8 mm	✓	--	--	--		**3VA9151-0QB00**		1	1 unit	1CB

© Siemens 2019

Connection technology – specially for fixed mounting

2

	Version	Minimum for stranded cable	Maximum for stranded cable	For molded case circuit breakers/ Article No. stem				SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d					
Wire connectors specially for fixed mounting													
3VA9112-0JJ12	**Wire connector, large** • Connection of Cu/Al cable • Included in scope of supply: - 2 single terminals - 1 terminal cover extended - 1 insulating plate	25 mm²	150 mm²	✓	--	--	--		**3VA9112-0JJ12**		1	1 unit	1CB
3VA9113-0JJ12	**Wire connector, large** • Connection of Cu/Al cable • Included in scope of supply: - 3 single terminals - 1 terminal cover extended - 1 insulating plate	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	**Wire connector, large** • Connection of Cu/Al cable • Included in scope of supply: - 4 single terminals - 1 terminal cover extended - 1 insulating plate	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	**Wire connector, large, with control wire tap** • Connection of Cu/Al cable • Included in scope of supply: - 2 single terminals - 1 terminal cover extended - 1 insulating plate	25 mm²	150 mm²	✓	--	--	--		**3VA9112-0JC12**		1	1 unit	1CB
3VA9223-0JC13	**Wire connector, large, with control wire tap** • Connection of Cu/Al cable • Included in scope of supply: - 3 single terminals - 1 terminal cover extended - 1 insulating plate	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	**Wire connector, large, with control wire tap** • Connection of Cu/Al cable • Included in scope of supply: - 4 single terminals - 1 terminal cover extended - 1 insulating plate	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

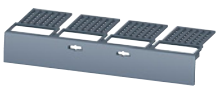
Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

	Version	Minimum for stranded cable	Maximum for stranded cable	For molded case circuit breakers/ Article No. stem				SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d					
3VA9223-0JJ22	**Wire connector, 2 cables** • Connection of Cu/Al cable • Included in scope of supply: - 3 single terminals - 1 terminal cover extended - 1 insulating plate	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	**Wire connector, 2 cables** • Connection of Cu/Al cable • Included in scope of supply: - 4 single terminals - 1 terminal cover extended - 1 insulating plate	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	**Wire connector, 2 cables, with control wire tap** • Connection of Cu/Al cable • Included in scope of supply: - 3 single terminals - 1 terminal cover extended - 1 insulating plate	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	**Wire connector, 2 cables, with control wire tap** • Connection of Cu/Al cable • Included in scope of supply: - 4 single terminals - 1 terminal cover extended - 1 insulating plate	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	**Distribution wire connector, 6 cables** • Connection of Cu/Al cable • Included in scope of supply: - 2 single terminals - 1 terminal cover extended - 1 insulating plate	6 x 1.5 mm²	6 x 35 mm²	✓	--	--	--		**3VA9112-0JF60**		1	1 unit	1CB
3VA9223-0JF60	**Distribution wire connector, 6 cables** • Connection of Cu/Al cable • Included in scope of supply: - 3 single terminals - 1 terminal cover extended - 1 insulating plate	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	**Distribution wire connector, 6 cables** • Connection of Cu/Al cable • Included in scope of supply: - 4 single terminals - 1 terminal cover extended - 1 insulating plate	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

© Siemens 2019

Connection technology – specially for fixed mounting

	Version	For molded case circuit breakers/ Article No. stem				SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d					
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	**Terminal cover extended, 2-pole** Including insulating plate	✓	--	--	--		**3VA9111-0WF20**		1	1 unit	1CB
3VA9221-0WF30	**Terminal cover extended for 3-pole breakers** Including insulating plate	✓	--	--	--		**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	**Terminal cover extended for 4-pole breakers** Including insulating plate	✓	--	--	--		**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	**Terminal cover offset for 3-pole breakers** Including insulating plate	✓	--	--	--		**3VA9111-0WG30**		1	1 unit	1CB
		--	✓	--	--		**3VA9211-0WG30**		1	1 unit	1CB
		--	--	✓	--		**3VA9221-0WG30**		1	1 unit	1CB
		--	--	--	✓		**3VA9401-0WG30**		1	1 unit	1CB

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

© Siemens 2019

	Version	For molded case circuit breakers/ Article No. stem				SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d					
3VA9221-0WG40	**Terminal cover offset for 4-pole breakers** Including insulating plate	✓	--	--	--		**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
3VA9221-0WK30	**Insulating plate offset, 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 offset, 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

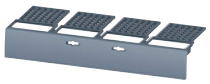
© Siemens 2019

Connection technology – specially for fixed mounting

	Version	For molded case circuit breakers/ Article No. stem				SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d					
Control wire taps specially for fixed mounting											
3VA9200-0WB00	**Control wire tap for box terminal**	✓	--	--	--		**3VA9110-0WB00**		1	10 units	1CB
		--	✓	✓	--		**3VA9200-0WB00**		1	10 units	1CB
		--	--	--	✓		**3VA9480-0WB00**		1	10 units	1CB
3VA9200-0WC00	**Control wire tap for busbar**	✓	--	--	--		**3VA9110-0WC00**		1	10 units	1CB
		--	✓	✓	--		**3VA9200-0WC00**		1	10 units	1CB
		--	--	--	✓		**3VA9480-0WC00**		1	10 units	1CB
DC insulating plates 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 units	1CB
	- 4-pole	✓	--	--	--		**3VA9114-0SG10**		1	10 units	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 units	1CB

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

© Siemens 2019

	Version	For molded case circuit breakers/ Article No. stem				SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d					
Terminal covers specially for plug-in and draw-out units											
	Terminal cover for plug-in/draw-out unit (spare part) • To provide circuit breaker touch protection • For mounting on the molded case circuit breaker										
	Versions										
	• 3-pole • Included in scope of supply: Cover for infeed and outgoing side	✓	--	--	--		**3VA9113-0KB01**		1	1 unit	1CB
		--	✓	--	--		**3VA9213-0KB01**		1	1 unit	1CB
		--	--	✓	--		**3VA9123-0KB01**		1	1 unit	1CB
		--	--	--	✓		**3VA9353-0KB01**		1	1 unit	1CB
3VA9123-0KB01											
	• 4-pole • Included in scope of supply: Cover for infeed and outgoing side	✓	--	--	--		**3VA9114-0KB01**		1	1 unit	1CB
		--	✓	--	--		**3VA9214-0KB01**		1	1 unit	1CB
		--	--	✓	--		**3VA9124-0KB01**		1	1 unit	1CB
		--	--	--	✓		**3VA9354-0KB01**		1	1 unit	1CB
3VA9124-0KB01											
	Terminal cover for plug-in or draw-out socket • For touch protection in the termination area of the plug-in or draw-out socket • 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
3VA9153-0KB03											
	• 4-pole	✓	--	--	--		**3VA9154-0KB03**		1	1 unit	1CB
		--	✓	--	--		**3VA9254-0KB03**		1	1 unit	1CB
		--	--	✓	--		**3VA9164-0KB03**		1	1 unit	1CB
		--	--	--	✓		**3VA9354-0KB03**		1	1 unit	1CB
3VA9154-0KB03											
	Terminal cover, extended, for plug-in or draw-out socket • For touch protection in the termination area of the plug-in or draw-out socket • For mounting on the plug-in or draw-out socket • 1 insulating plate										
	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											

© Siemens 2019

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Connection technology – specially for plug-in and draw-out units

	Version	For molded case circuit breakers/ Article No. stem 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	Terminal cover, offset, for plug-in or draw-out socket • For touch protection in the termination area of the plug-in or draw-out socket • For mounting on the plug-in or draw-out socket • 1 insulating plate										
	Versions										
3VA9153-0KB05	• 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
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 for stranded cable	Maximum for stranded cable	For molded case circuit breakers/ Article No. stem 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Wire connectors specially for plug-in and draw-out units													
3VA9153-0JC12	**Wire connector, large, with control wire tap** Included in scope of supply: • 3 single terminals • 1 terminal cover extended • 1 insulating plate	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
3VA9154-0JC12	**Wire connector, large, with control wire tap** Included in scope of supply: • 4 single terminals • 1 terminal cover extended • 1 insulating plate	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

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

© Siemens 2019

Connection technology – specially for plug-in and draw-out units

	Version	Minimum for stranded cable	Maximum for stranded cable	For molded case circuit breakers/ Article No. stem 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
3VA9263-0JC22	**Wire connector, 2 cables, with control wire tap** Included in scope of supply: • 3 single terminals • 1 terminal cover extended • 1 insulating plate	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	**Wire connector, 2 cables, with control wire tap** Included in scope of supply: • 4 single terminals • 1 terminal cover extended • 1 insulating plate	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	**Distribution wire connector, 6 cables** Included in scope of supply: • 3 single terminals • 1 terminal cover extended • 1 insulating plate	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	**Distribution wire connector, 6 cables** Included in scope of supply: • 4 single terminals • 1 terminal cover extended • 1 insulating plate	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
Control wire taps specially for plug-in and draw-out units													
3VA9280-0WB00	**Control wire tap for box terminal**			✓	--	--	--		**3VA9150-0WB00**		1	10 units	1CB
				--	✓	✓	--		**3VA9280-0WB00**		1	10 units	1CB
				--	--	--	✓		**3VA9480-0WB00**		1	10 units	1CB
3VA9280-0WC00	**Control wire tap for busbar**			✓	--	--	--		**3VA9150-0WC00**		1	10 units	1CB
				--	✓	✓	--		**3VA9280-0WC00**		1	10 units	1CB
				--	--	--	✓		**3VA9480-0WC00**		1	10 units	1CB

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

© Siemens 2019

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 taps 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 wire.

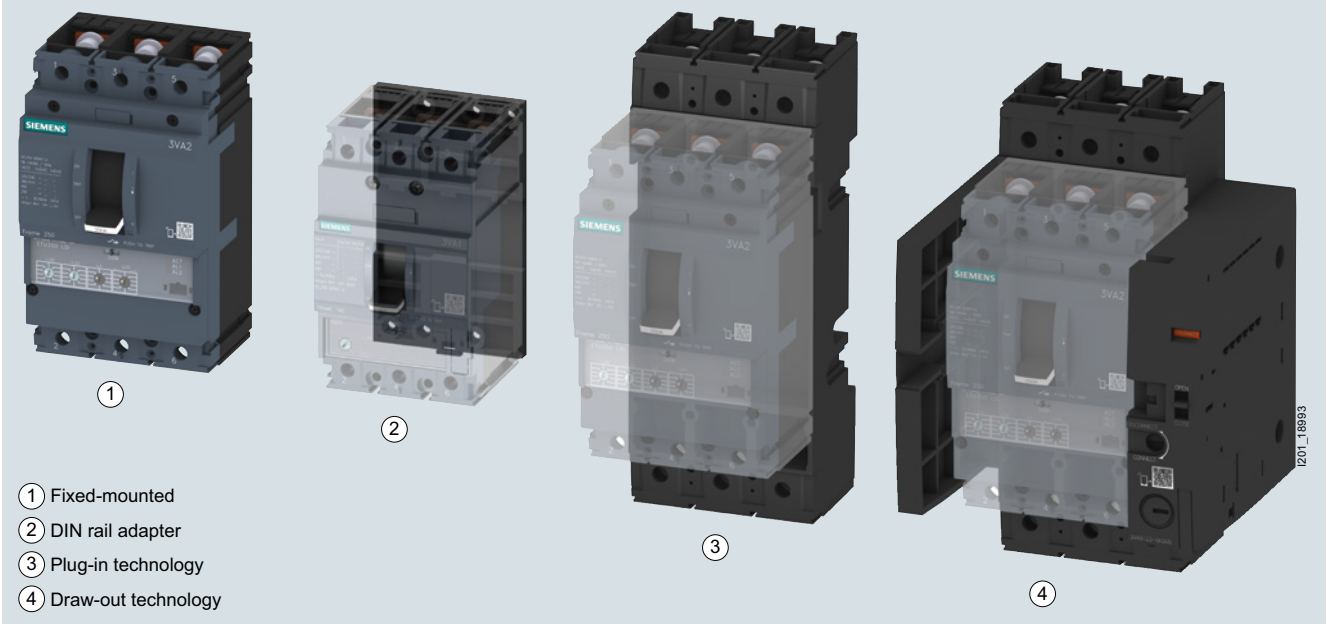
The draw-out complete kit as well as the draw-out conversion kit for one breaker are available. Both kits include screw-fastened terminal covers for the breaker. The crank handle for the draw-out unit must be ordered separately.

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

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

© Siemens 2019

Selection and ordering data

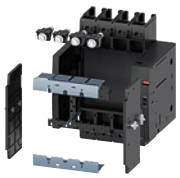
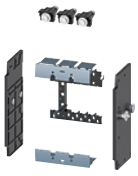
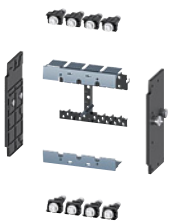
	Version	For molded case circuit breakers/ Article No. stem 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Plug-in socket											
	Plug-in unit, complete kit Comprising: • Plug-in socket • Conversion kit • Mounting screw kit										
	Versions										
 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
 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 Comprising: • Screw-fastened terminal covers for molded case circuit breakers • Plug-in contacts • Cable cages • Autotrip plunger										
	Versions										
 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
 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

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

© Siemens 2019

Plug-in and draw-out technology

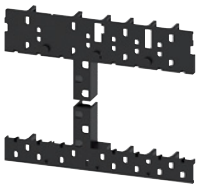
Draw-out units

	Version	For molded case circuit breakers/ Article No. stem 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	Draw-out unit, complete kit Comprising: • Draw-out socket • Conversion kit • Mounting screw kit										
	Versions										
 3VA9123-0KD00	• 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
	Note										
	The crank handle for the draw-out unit must be ordered separately.										
	Draw-out unit, conversion kit Conversion kit comprising: • Screw-fastened terminal covers for molded case circuit breakers • Side walls • Plug-in contacts • Cable cages • Autotrip plungers										
	Versions										
 3VA9123-0KD10	• 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

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

© Siemens 2019

Cable cage


3VA9167-0KB02

Version	For molded case circuit breakers/ Article No. stem 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
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

Version	For molded case circuit breakers/ Article No. stem 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Door feedthrough	--	✓	--	--		**3VA9257-0KT00**		1	1 unit	1CB
	--	--	✓	--		**3VA9167-0KT00**		1	1 unit	1CB
	--	--	--	✓		**3VA9367-0KT00**		1	1 unit	1CB

Spare part: Autotrip plunger

3VA9457-0KP81

Version	For molded case circuit breakers/ Article No. stem 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Autotrip plunger										
• Accessories for plug-in unit	✓	--	--	--		**3VA9157-0KP81**		1	1 unit	1CB
	--	✓	--	--		**3VA9257-0KP81**		1	1 unit	1CB
	--	--	✓	--		**3VA9267-0KP81**		1	1 unit	1CB
	--	--	--	✓		**3VA9457-0KP81**		1	1 unit	1CB
• Accessories for draw-out unit	--	✓	--	--		**3VA9257-0KD81**		1	1 unit	1CB
	--	--	✓	--		**3VA9267-0KD81**		1	1 unit	1CB
	--	--	--	✓		**3VA9457-0KD81**		1	1 unit	1CB

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

© Siemens 2019

Plug-in and draw-out technology

Other accessories

	Version	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
3VA9987-0KC00	**Communication link for draw-out unit** Comprising: • Cable kit with 3 special position signaling switches • Connecting cable 3VA9987-0KC10		**3VA9987-0KC00**		1	1 unit	1CB
3VA9987-0KB00	**Position signaling switches** • For draw-out unit • For plug-in unit		**3VA9987-0KB00**		1	1 unit	1CB
3VA9987-0KC10	**Spare part: connecting cable** 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** 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						
	Each auxiliary circuit connector is designed for 4 cables.						

	Version		SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
3VA9980-0VL10	**Cylinder lock (type Ronis)** • Includes a lock with 2 keys • For locking or interlocking • For installation in all rotary operators • For mounting in the adapter kit for the accessories compartment Not for 3VA15/3VA25!	Key 1 (lock number 1)		**3VA9980-0VL10**		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
3VA9980-0LF40	**Cylinder lock adapter for draw-out unit** • For fitting a cylinder lock in the right-hand side wall of the draw-out unit • To prevent unauthorized withdrawal or insertion of the circuit breaker into the draw-out unit • Circuit breaker can be locked in the CONNECT, TEST and DISCONNECT positions			**3VA9980-0LF40**		1	1 unit	1CB

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

© Siemens 2019

Overview

Residual current devices can be used to prevent 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.

Residual current devices of type A are available for the detection of purely sinusoidal AC residual currents and pulsating DC residual currents. If smooth DC residual currents can occur in an application, universal current-sensitive residual current devices (type B/B+) shall be used. If there is the need for enhanced preventative fire protection in an application it is recommended to use type B+.

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 of type A complies with IEC 60947-2 Annex M.

Basic RCD520B

Basic RCD510

Basic RCD520

Advanced RCD820

"Basic" type residual current devices 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

Special features for RCD520B (type B): NEW

- LED for MONITORING MODE
- Pre-alarm via electrical contacts
- Selection between tripping characteristic and RCD/monitoring mode
- 3-pole version in 4-pole enclosure

On the residual current devices of the 5-series (RCD5..), tripping can be delayed by up to three seconds for type A and up to ten seconds for type B 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, RCD520 and RCD520B

RCD320, RCD520 and RCD520B 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 plunger that is already integrated into the residual current device and the circuit breaker.

"Advanced" type residual current devices 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, a modular solution is also available.

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

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

Additional benefits with RCD520B: NEW

- Switchover between residual current monitoring or disconnection provides optimum protection and saves time during commissioning
- Universal application: Selectable tripping characteristic also permits use for enhanced fire protection

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

© Siemens 2019

2

Selection and ordering data

	Version	For molded case circuit breakers/ Article No. stem 3VA11	3VA12	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Residual current devices (RCD) for 3VA1									
	Type A (pulse current sensitive) • Mounted on the side (left) • Trip element (RCR) included in the scope of supply • Can only be mounted on molded case circuit breakers and switch disconnectors with box terminal • U_e = 127 - 480 V AC, 50/60 Hz								
	Notes • 3VA11: If the molded case circuit breaker has no box terminals as connections, a set of box terminals must be ordered additionally for the taps below the thermal-magnetic trip units. • 3VA12: 1 set of box terminals is included in scope of supply of the RCD510 (3VA921.-0RS20).								
3VA9114-0RS10	**RCD310** • 4-pole • 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 • instantaneous (INS)	✓	--		**3VA9114-0RS10**		1	1 unit	1CB
3VA9113-0RS20	**RCD510** • 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 • Delay time, adjustable: Δt = 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
Spare part: Residual current release NEW									
3VA9988-0BR10	**Residual current release (RCR)** • Accessories for side mounted RCD310 and RCD510 • Scope of supply: RCR, RCR-RCD cables • For all side mounted residual current devices				**3VA9988-0BR10**		1	1 unit	1CB

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

© Siemens 2019

	Version	For molded case circuit breakers/ Article No. stem 3VA11	3VA12	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Residual current devices (RCD) for 3VA1									
	Type A (pulse current sensitive) • Mounted below (under trip unit) • Can be mounted on molded case circuit breakers • U_e = 127 - 480 V AC, 50/60Hz								
3VA9114-0RL10	**RCD320** • 4-pole • 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 • instantaneous (INS)	✓	--		**3VA9114-0RL10**		1	1 unit	1CB
3VA9113-0RL20	**RCD520** • 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 • Delay time, adjustable: Δt = Instantaneous (INS) - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3 s; default: instantaneous (INS)								
3VA9114-0RL20	Versions								
	• 3-pole	✓	--		**3VA9113-0RL20**		1	1 unit	1CB
		--	✓		**3VA9213-0RL20**		1	1 unit	1CB
	• 4-pole	✓	--		**3VA9114-0RL20**		1	1 unit	1CB
		--	✓		**3VA9214-0RL20**		1	1 unit	1CB
	Type B and B+ (universal current sensitive) NEW in the range from 0 to 100 kHz • According to IEC EN 60947-2 • According to DIN VDE 0664-400 (type B+) • Mounted below (under trip unit) • Can be mounted on molded case circuit breakers • U_e = 127 - 690 V AC, 50/60 Hz								
3VA9113-0RL21	**RCD520B** • Rated residual response current, adjustable type B: $I_{\Delta n}$ = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 A; type B+: $I_{\Delta n}$ = 0.03 - 0.05 - 0.1 - 0.3 A; default: 30 mA • Delay time, adjustable: Δt = Instantaneous (INS) - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3 - 5 - 10 s; default: instantaneous (INS) • RCD or MONITORING mode adjustable default: RCD mode • Tripping characteristic type B or type B+ adjustable default: Tripping characteristic type B								
3VA9114-0RL21	Versions NEW								
	• 3-pole	✓	--		**3VA9113-0RL21**		1	1 unit	1CB
	• 4-pole	✓	--		**3VA9114-0RL21**		1	1 unit	1CB

© Siemens 2019

Residual current devices

	Version	For molded case circuit breakers/ Article No. stem 3VA20 3VA21	3VA22	3VA23	3VA24	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Residual current devices (RCD) for 3VA2											
	Type A (pulse current sensitive) • Mounted below (under trip unit) • With energy infeed from below, the required auxiliary switch (AUX) must be ordered separately. • U_e = 127 - 690 V AC, 50/60 Hz										
3VA9123-0RL30	**RCD820** • 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 • Delay time, adjustable: Δt = 0 - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3 - 5 - 10 s; default: instantaneous (INS) • Note: 30 A setting range only for type AC applications										
3VA9124-0RL30	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
	• 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

	Version	For molded case circuit breakers/ Article No. stem 3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Modular residual current device MRCD											
	For more information, see chapter "Monitoring Devices".										

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

© Siemens 2019

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 a 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
- PROFIBUS
- RS 485 (Modbus RTU)

The molded case circuit breakers can be integrated via PROFINET and PROFIBUS directly into the TIA Portal ≥ V14 and SIMATIC Energy Suite. GSDML and GSD files are available as support for STEP 7 V5 and other engineering systems.

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 commissioning and service 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 commissioning and service software, it is possible to read out or modify the setting parameters of the molded case circuit breaker and monitor the measured values.

Current and stored test operations can be documented in test reports using powerconfig. The test reports can be saved and printed in PDF format or saved in a csv file for further analysis.

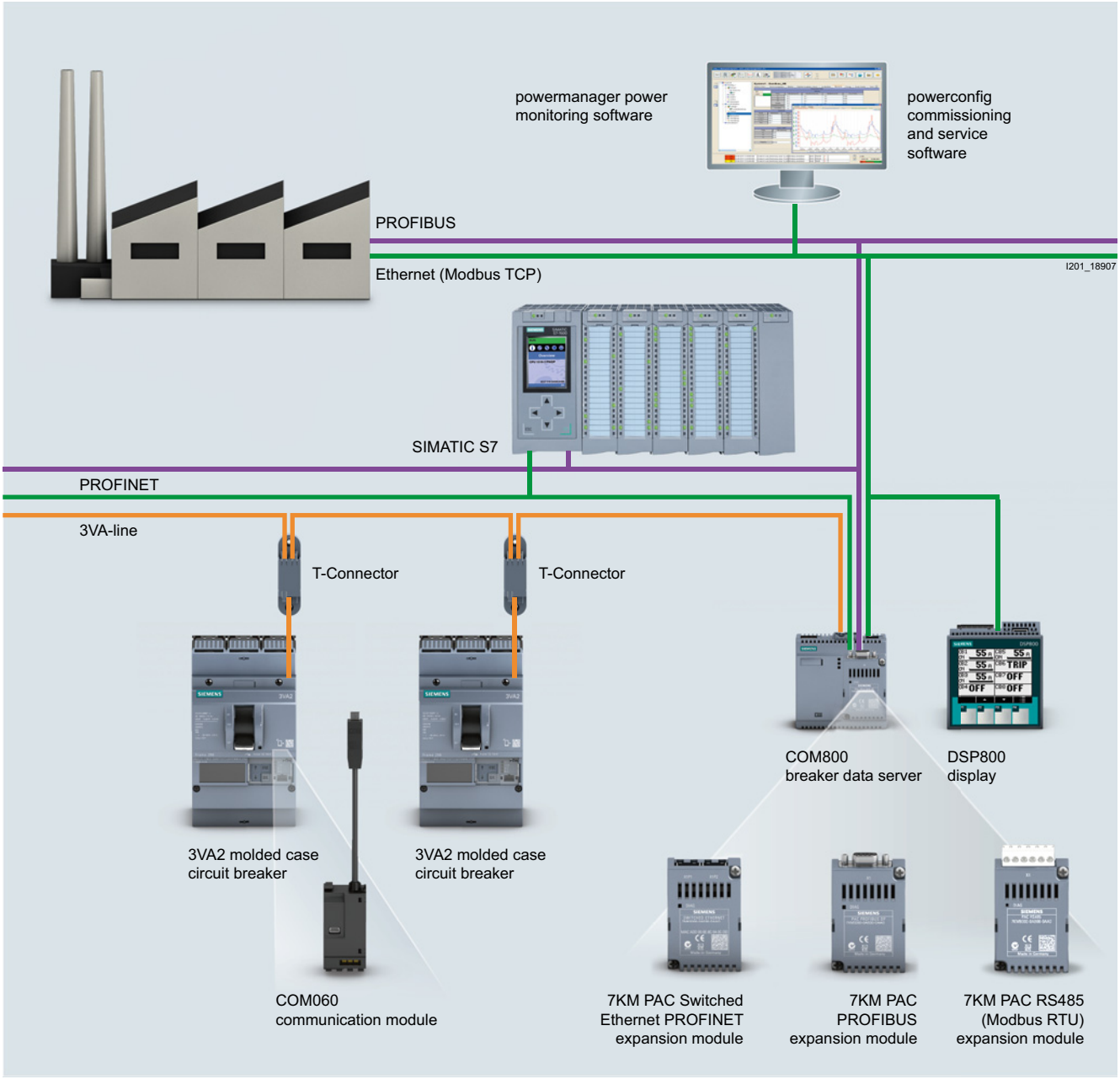
Benefits

- 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

© Siemens 2019

2

Design



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

© Siemens 2019

Overview of the metering functions

Metering function[1)]			ETUs of the 5-series	ETUs of the 8-series	Display 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	--	✓	--	👁	👁
Voltage unbalance		%	--	✓	--	👁	👁
THD phase/phase and phase/N	$THDI_1$, $THDI_2$, $THDI_3$	%	--	✓	--	👁	👁
Power							
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	--	✓	👁	👁	👁
Power factor of the fundamental	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	Additional condition	Accuracy in % of the read-off measured value
Current	0.08 x I_b ... 2 x I_b	±1%
Voltage (L-N)	80 V < U < 480 V	±1%
THD current	Up to the 19th harmonic 0.08 x I_b ... 2 x I_b	±5%
THD voltage	Up to the 19th harmonic 80 V < U < 480 V	±5%
Power factor PF	0.08 x I_b ... 2 x I_b	± 0.05% absolute
Active power	I_b and U_n as described below the table	Class 2 according to IEC 61557-12
Active energy	I_b and U_n as described below the table	Class 2 according to IEC 61557-12
Reactive power	0.08 x I_b ... 2 x I_b	±2%
Apparent power	PF ≥ 0.6 inductive PF ≥ 0.8 capacitive	
Reactive energy	0.08 x I_b ... 2 x I_b	±2%
Apparent energy	PF ≥ 0.6 inductive PF ≥ 0.8 capacitive	
Frequency	80 V < U < 480 V	±0.1%

Legend:

I_b is the maximum current in the relevant size.

Example: 3VA21 → I_b = 160 A

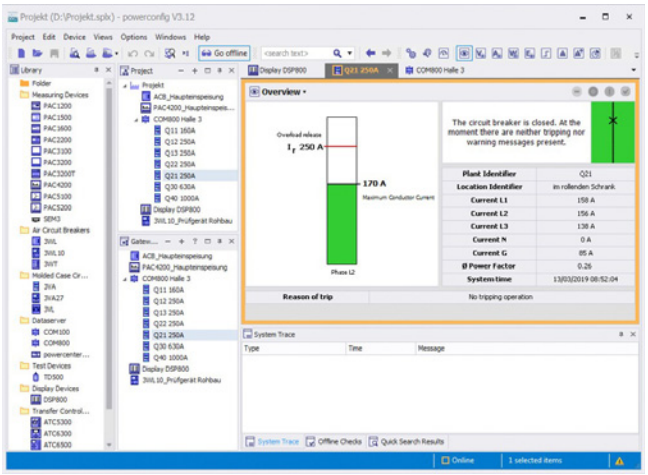
U_n refers to the nominal voltage of the metering function; between phase and neutral

All specified accuracies refer to an ambient temperature of 23 °C ± 2 °C.

© Siemens 2019

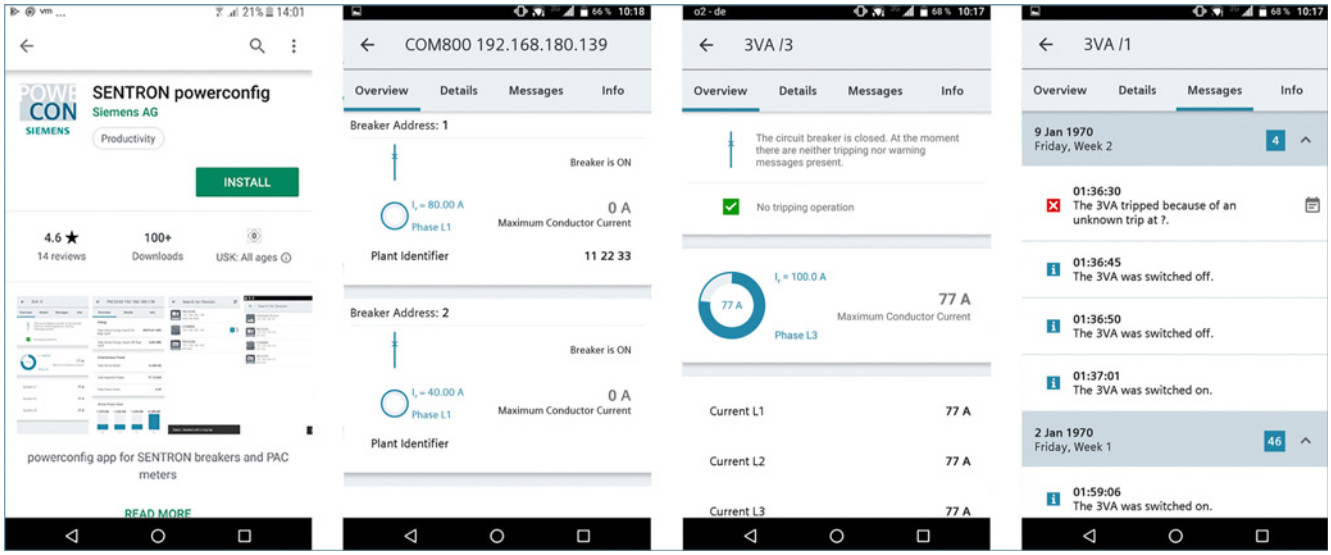
Communication and testing/commissioning devices

Commissioning and service software: powerconfig



- Commissioning and service software for 3VA2 molded case circuit breakers and all other electronic SENTRON components
- For Windows 7 Professional, Windows 8.1 Professional, Windows 2008 Server and Windows 10
- Connections via TD500 and Ethernet, PROFINET, PROFIBUS and RS 485.
- Languages: German, English, Chinese, Spanish, Portuguese, Italian, Turkish, Polish, Russian
- Enables complete use of the electronic components of the 3VA2 such as ETU, EFB300, DSP800, TD500
- Communication via PROFINET, PROFIBUS, Ethernet Modbus TCP and RS 485 with Modbus RTU
- see also chapter "Software" "Configuring, Visualizing and Controlling with SENTRON".
- powerconfig can be downloaded free of charge from Siemens Industry Online Support at http://support.automation.siemens.com/WW/view/en/63452759
- More information can be found on the Internet at: www.siemens.com/sentron

powerconfig for mobile devices



- Software for commissioning and service of the 3VA, 3WL molded case circuit breakers, PAC3200 and PAC4200
- Displays the current states and measured values
- Access by the powerconfig mobile app to data via WLAN access point that is connected via Modbus TCP to COM800/100 (for 3VA), COM35 (for 3WL) or PAC3200/4200
- Android version required for mobile devices such as smartphones or tablets: 6.0 or higher
- Available for downloading free of charge in the Google Play Store

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

© Siemens 2019

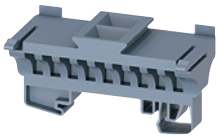
Selection and ordering data

	Version	For molded case circuit breakers/ Article No. stem 3VA20 3VA21 3VA22	3VA23 3VA24 3VA25	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
24 V module									
3VA9187-0TB50	**24 V module** • 24 V DC • For mounting in the right-hand accessories compartment of the 3VA2 • 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** • For mounting in the right-hand accessories compartment of the 3VA2 molded case circuit breaker (including ETU power supply) • Communication with the COM800/COM100 breaker data server via the 3VA-line • 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** • 2 terminating resistors • Central communication module for connecting up to eight 3VA2 molded case circuit breakers via the 3VA-line • Ethernet 10/100 Mbps interface • Module slot for plugging on an optional PROFIBUS DP or PROFINET module				**3VA9987-0TA10**		1	1 unit	1CB
3VA9987-0TA20	**COM100 breaker data server** • 2 terminating resistors • Optimized, central communication module for connecting a 3VA2 molded case circuit breaker via the 3VA-line • Ethernet 10/100 Mbps interface • 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** • 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. • 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** • The 7KM PAC Switched Ethernet PROFINET expansion module is used to connect the COM800/COM100 breaker data server, and the 3VA molded case circuit breakers connected to it, to PROFINET via two Ethernet interfaces. • The 7KM PAC Switched Ethernet PROFINET expansion module provides the status and measured quantities of the 3VA molded case circuit breakers to PROFINET via the PROFINET IO, PROFIenergy and Modbus TCP protocols.				**7KM9300-0AE01-0AA0**		1	1 unit	1DD
7KM9300-0AM00-0AA0	**7KM PAC RS 485 Modbus RTU expansion module** • The 7KM PAC RS 485 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. • The 7KM PAC RS 485 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

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

© Siemens 2019

Communication and testing/commissioning devices

	Version		SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Accessories for communication								
3VA9987-0TG10	**T-Connector** • Spare part • Provides spur line feeder to COM060 and loops through to the next circuit breaker.			**3VA9987-0TG10**		1	1 unit	1CB
 3VA9987-0TG11	**DIN rail adapter** For snapping the T-Connector onto a DIN rail.			**3VA9987-0TG11**		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** 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** 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 ... 150 A		**3VA9007-0NA10**		1	1 unit	1CB
		• I_n = 160 ... 350 A		**3VA9107-0NA10**		1	1 unit	1CB
		• I_n = 400 ... 630 A		**3VA9307-0NA10**		1	1 unit	1CB
3VA9077-0NA10	**External current transformer as straight-through transformer** NEW							
		• I_n = 25 ... 150 A		**3VA9077-0NA10**		1	1 unit	1CB
		• I_n = 160 ... 350 A		**3VA9177-0NA10**		1	1 unit	1CB
		• I_n = 400 ... 630 A		**3VA9377-0NA10**		1	1 unit	1CB
		• I_n = 600 ... 1250 A		**3VA9677-0NA10**		1	1 unit	1CB
	Spare part: cable for connecting external current transformer for N conductor			**3VA9907-0NB10**		1	1 unit	1CB

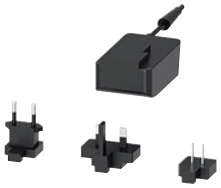
Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

	Version	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Display							
3VA9987-0TD10	**DSP800 display** • For displaying the status, measured values and parameters of up to 8 3VA2 molded case circuit breakers and for up to 3 devices of 3WL1 size 0 and/or 3VA27 size 1600 A. • Connection to the COM800/COM100 via Ethernet for displaying information of the COM800/COM100 and the connected 3VA2 molded case circuit breakers and for up to 3 devices of 3WL1 size 0 and/or 3VA27 size 1600 A.		**3VA9987-0TD10**		1	1 unit	1CB
External function box							
3VA9987-0UA10	**EFB300** • External function box for connection to the ETU of the 3VA2 molded case circuit breakers • 4 digital outputs for information output • 1 digital input • ZSI functionality • S0 interface • Including cable 1.5 m in length		**3VA9987-0UA10**		1	1 unit	1CB
	Connecting cable for EFB300 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
Test devices							
3VA9987-0MA10	**TD300** • Connection to the front interface of the ETU • Test device for activating the ETU and triggering a test trip		**3VA9987-0MA10**		1	1 unit	1CB

© Siemens 2019

Communication and testing/commissioning devices

	Version	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
3VA9987-0MB10	**TD500** • Connection to the front interface of the ETU • Initiation of various test trips (LSING) • USB interface for connection of a PC using powerconfig • ETU parameterization • Including adapter and connecting cable for 3VA2 and IEC 3WL molded case circuit breakers (ETU Release 2) • Including case		**3VA9987-0MB10**		1	1 unit	1CB
 3VA9987-0MX10	**Spare part: external power supply for TD500** 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

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

© Siemens 2019

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.

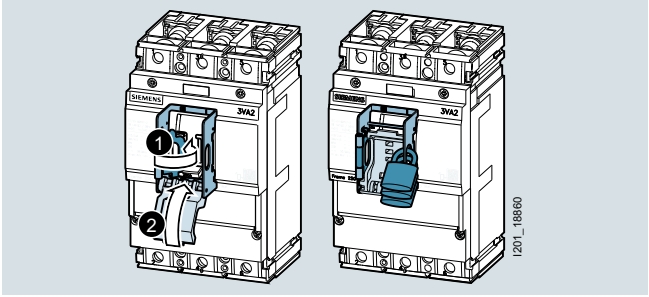
Using the interlocking technology, it is possible to mutually interlock two or more molded case circuit breakers. The interlock system is designed to ensure that no more than one molded case circuit breaker can be operated at a time. The following methods of interlocking can be used on 3VA molded case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

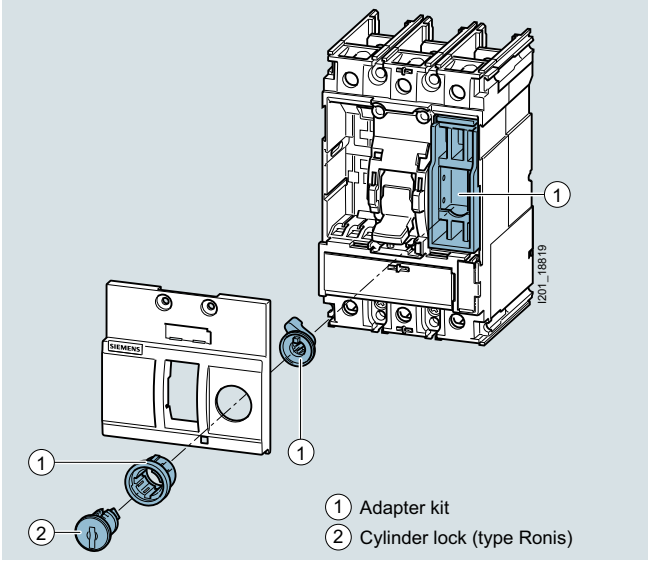


Locking with cylinder lock

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

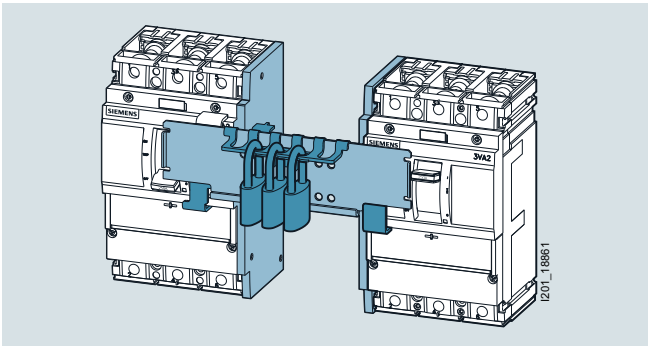


Interlocking technology

Interlocking by means of a sliding bar

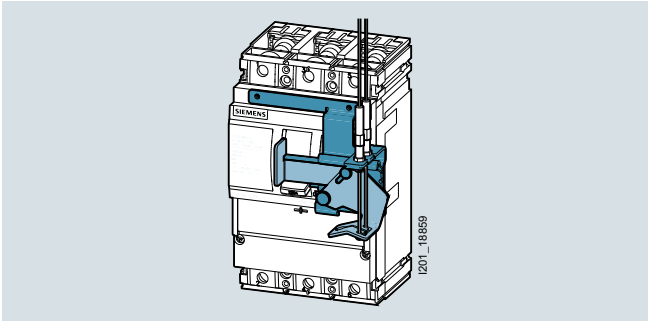
The front sliding bar allows between two and three 3VA molded case circuit breakers of the same size to be mutually interlocked by means of a sliding bar.

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.

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

© Siemens 2019

Locking, blocking and interlocking

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

Rear interlock

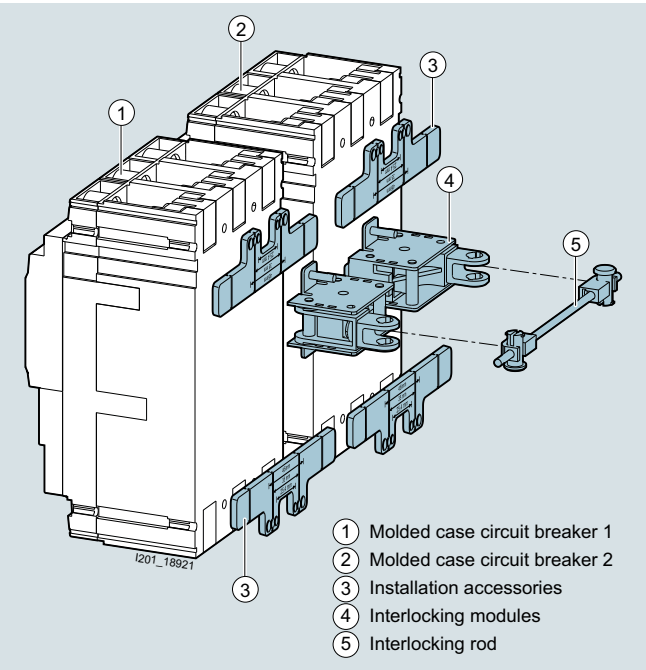
The rear interlock system allows implementation of an interlock without restricting the number of accessories which can be installed at the front of the 3VA molded case circuit breaker. Using the rear interlock, it is possible to create an interlock between two molded case circuit breakers of different sizes based on the blocking principle. When one molded case circuit breaker closes, the other circuit breaker is prevented from closing by a plunger 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 frame comprising a plate and two profile rails is available as an accessory to assist installation.

Rear interlock for plug-in or draw-out units

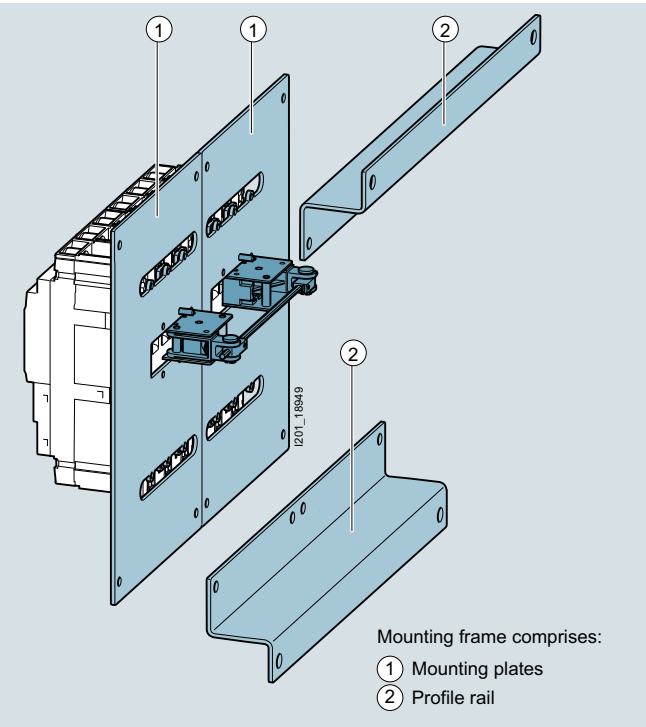
In order to install a rear interlock for plug-in or draw-out versions of the molded case circuit breakers, the plunger needs to be lengthened. The rear interlock for plug-in or draw-out versions is offered as a complete kit.



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.

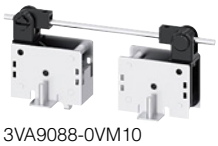


Rear interlock with mounting frame

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

© Siemens 2019

Selection and ordering data

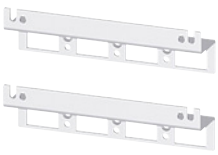
	Version	For molded case circuit breakers/ Article No. stem 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Accessories for locking, blocking and interlocking												
3VA9167-0LF10	**Adapter kit for mounting the cylinder lock (type Ronis) in the accessories compartment of the molded case circuit breaker** 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)	--	✓	--	--	--		**3VA9257-0LF10**		1	1 unit	1CB
	• For an interlock: select the same cylinder lock number	--	--	✓	--	--		**3VA9167-0LF10**		1	1 unit	1CB
		--	--	--	✓	--		**3VA9367-0LF10**		1	1 unit	1CB
		--	--	--	--	✓ NEW		**3VA9587-0LF10**		1	1 unit	1CB
3VA9980-0VL10	**Cylinder lock (type Ronis)** • Includes a lock with 2 keys • For locking or interlocking • For installation in all rotary operators • For mounting in the adapter kit for the accessories compartment											
	Versions											
	• Key 1 (lock number 1)	✓	✓	✓	✓	--		**3VA9980-0VL10**		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** 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. • 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
		--	--	--	--	✓ NEW		**3VA9587-0VF10**		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
 3VA9088-0VM10	**Rear interlock with rod** Complete kit for fixed mounting											
	Note	✓	✓	✓	✓	--		**3VA9088-0VM10**		1	1 unit	1CB
	Mounting frames are not included in scope of supply.											
3VA9088-0VM30	**Rear interlock with rod** Complete kit for plug-in/draw-out unit	✓	✓	✓	✓	--		**3VA9088-0VM30**		1	1 unit	1CB
	Note											
	If plug-in or draw-out technology is used together with the rear interlock with rod, the mounting plates and profile rails cannot be used.											

© Siemens 2019

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Locking, blocking and interlocking



3VA9088-0VK10

3VA9268-0VK20

Version	For molded case circuit breakers/ Article No. stem 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Mounting frame for rear interlock with rod For fixed mounting only The following are required for the complete mounting frame kit:											
Versions											
• Profile rails Contents: 2 units	✓	✓	✓	✓	--		**3VA9088-0VK10**		1	1 unit	1CB
• Mounting plate One per breaker, depending on size	✓	--	--	--	--		**3VA9158-0VK20**		1	1 unit	1CB
Notes	--	✓	--	--	--		**3VA9258-0VK20**		1	1 unit	1CB
2 mounting plates must be ordered. They are screwed onto the profile rail that can be ordered above. Different breakers can be mutually interlocked.	--	--	✓	--	--		**3VA9268-0VK20**		1	1 unit	1CB
	--	--	--	✓	--		**3VA9468-0VK20**		1	1 unit	1CB

Accessories for locking

3VA9388-0LB10

Version	For molded case circuit breakers/ Article No. stem 3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Locking devices for toggle levers	✓	✓	--	--	--		**3VA9088-0LB10**		1	1 unit	1CB
	--	--	✓	✓	--		**3VA9388-0LB10**		1	1 unit	1CB
	--	--	--	--	✓ NEW		**3VA9588-0LB10**		1	1 unit	1CB

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

© Siemens 2019

Selection and ordering data

	Version	For molded case circuit breakers/ Article No. stem					SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	d					
Cover frame for door cut-out												
3VA9163-0SB10	**Cover frame for door cut-out for molded case circuit breaker**											
	Versions											
	• 3-pole, door cut-out without trip unit	✓	--	--	--	--		**3VA9053-0SB10**		1	1 unit	1CB
		--	✓	--	--	--		**3VA9253-0SB10**		1	1 unit	1CB
		--	--	✓	--	--		**3VA9163-0SB10**		1	1 unit	1CB
		--	--	--	✓	--		**3VA9383-0SB10**		1	1 unit	1CB
		--	--	--	--	✓		**3VA9503-0SB10**		1	1 unit	1CB
	• 3-pole, door cut-out with trip unit	✓	--	--	--	--		**3VA9053-0SB20**		1	1 unit	1CB
		--	✓	--	--	--		**3VA9253-0SB20**		1	1 unit	1CB
		--	--	✓	--	--		**3VA9163-0SB20**		1	1 unit	1CB
		--	--	--	✓	--		**3VA9363-0SB20**		1	1 unit	1CB
		--	--	--	--	✓		**3VA9503-0SB20**		1	1 unit	1CB
	• 4-pole, door cut-out without trip unit	✓	--	--	--	--		**3VA9054-0SB10**		1	1 unit	1CB
		--	✓	--	--	--		**3VA9254-0SB10**		1	1 unit	1CB
		--	--	✓	--	--		**3VA9164-0SB10**		1	1 unit	1CB
		--	--	--	✓	--		**3VA9384-0SB10**		1	1 unit	1CB
		--	--	--	--	✓		**3VA9504-0SB10**		1	1 unit	1CB
	• 4-pole, door cut-out with trip unit	✓	--	--	--	--		**3VA9054-0SB20**		1	1 unit	1CB
		--	✓	--	--	--		**3VA9254-0SB20**		1	1 unit	1CB
		--	--	✓	--	--		**3VA9164-0SB20**		1	1 unit	1CB
		--	--	--	✓	--		**3VA9364-0SB20**		1	1 unit	1CB
		--	--	--	--	✓		**3VA9504-0SB20**		1	1 unit	1CB
	Cover frame for MO320 motor operators	✓	--	--	--	--		**3VA9053-0SB20**		1	1 unit	1CB
		--	✓	✓	--	--		**3VA9257-0SB30**		1	1 unit	1CB
		--	--	--	✓	--		**3VA9387-0SB30**		1	1 unit	1CB
	Cover frame for motor operator with SEO520 stored energy operator	--	--	✓ NEW	--	--		**3VA9167-0SB30**		1	1 unit	1CB
	Cover frame for RCD320, RCD520 and RCD820 residual current devices											
	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
	Cover frame 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
		--	--	--	--	✓		**3VA9503-0SB50**		1	1 unit	1CB
	Cover frame for door feedthrough	--	✓	✓	--	--		**3VA9253-0SB20**		1	1 unit	1CB
		--	--	--	✓	--		**3VA9353-0SB20**		1	1 unit	1CB
3VA9087-0SX10	**Labeling plate for cover frame**							**3VA9087-0SX10**		1	10 units	1CB

© Siemens 2019

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Other

	Version	For molded case circuit breakers/ Article No. stem				SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d					
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. 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 units	✓	✓	--	--		**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
	For 3VA15/3VA25 molded case circuit breakers:										
	• Spare part 4 screws 4 nuts metric thread						**3VA9517-0SS10**		1	1 unit	1CB

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

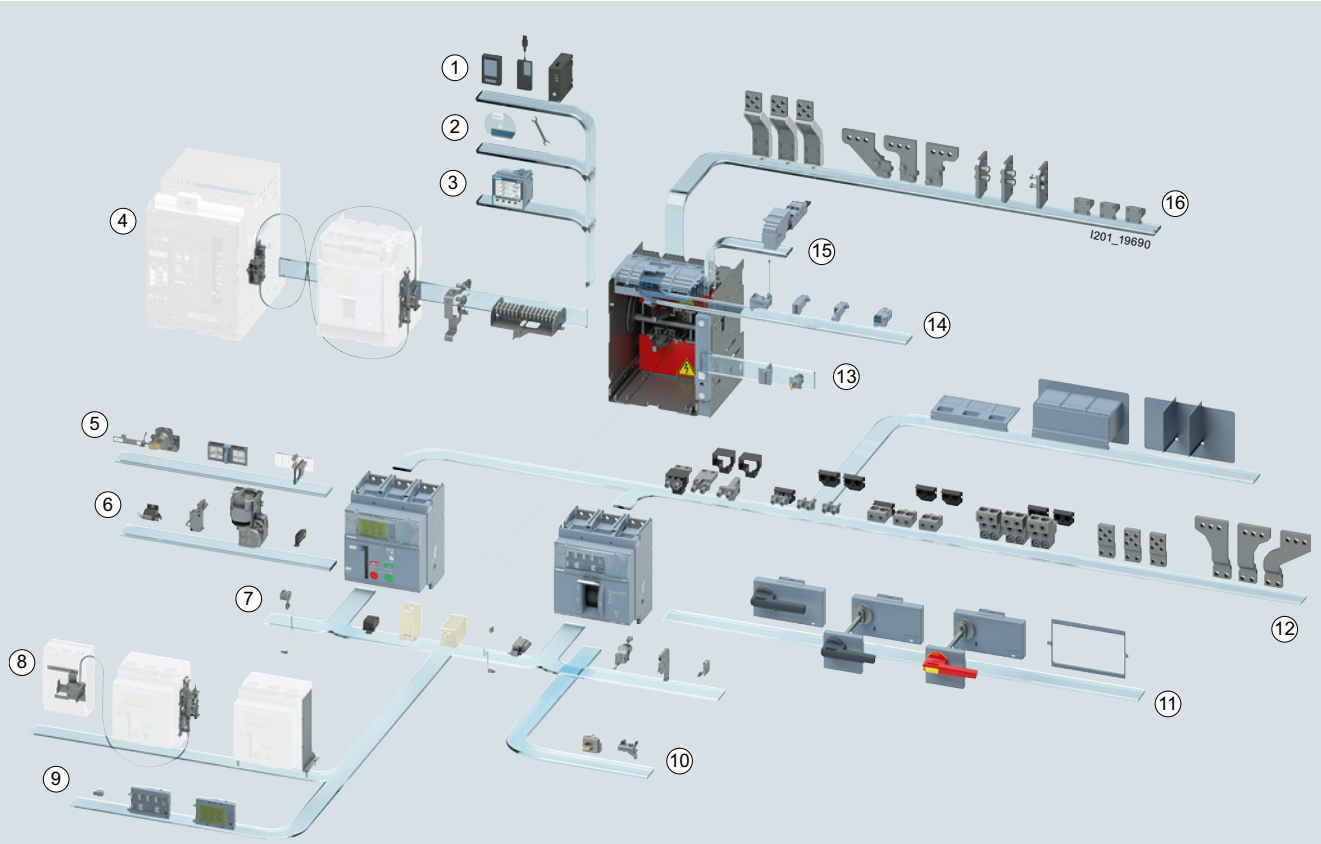
Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

© Siemens 2019

2

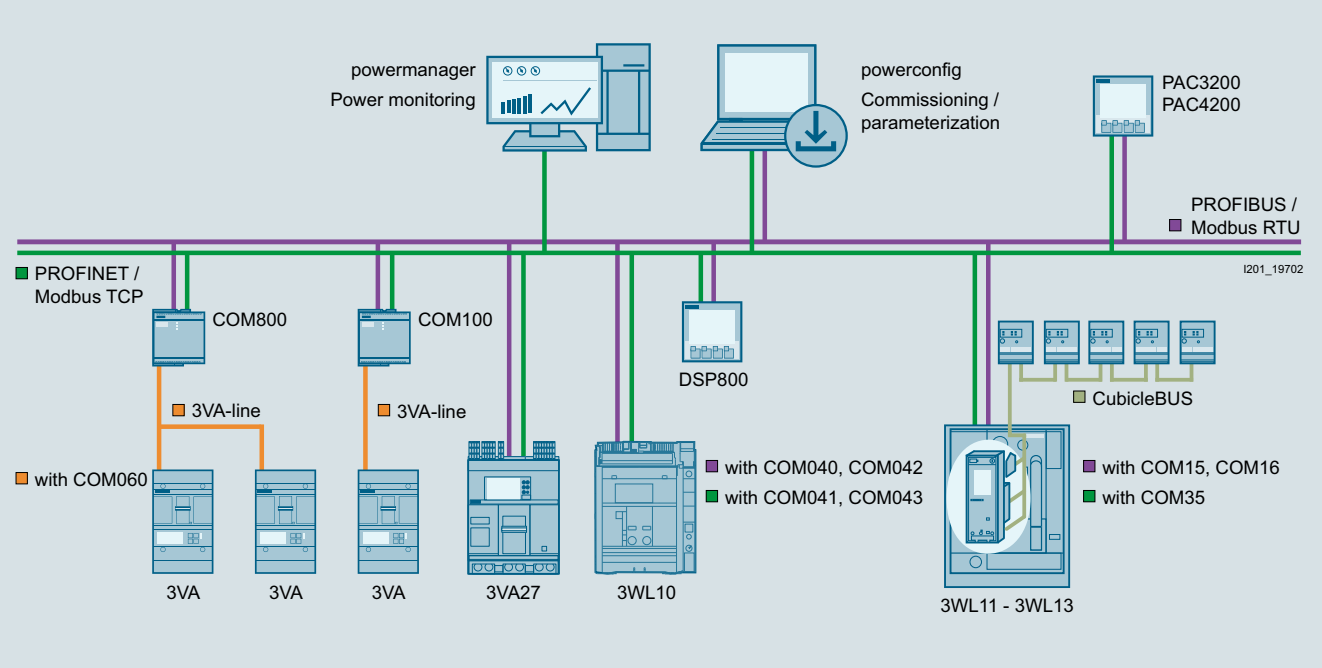
Overview



1. Test devices
2. powerconfig software
3. DSP800 display
4. Interlocking for draw-out unit / external accessories
5. Locking and interlocking for stored energy operator (SEO)
6. Motor operator and accessories
7. Auxiliary and alarm switches / auxiliary releases
8. Locking for fixed mounting design
9. Electronic trip units (ETUs)
10. Padlock device for toggle levers
11. Manual operators
12. Connection technology for fixed mounting design
13. Locking for draw-out unit
14. Communication modules
15. Position signaling switch for draw-out unit
16. Connection technology for draw-out unit

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

© Siemens 2019



Characteristics

- Integrated communication concept together with the 3VA27 molded case circuit breakers and the 7KM PAC measuring devices. The communication function is available from 25 A to 1600 A (ACB 3WL10 from 630 A ... 1250 A)
- The 3VA27 molded case circuit breakers can be equipped with an optional communication function. The Electronic Trip Units ETU650 or ETU660 support the communication function.
- The communication modules support Modbus TCP and Modbus RTU.
- The high level of modularity of the molded case circuit breakers and accessories allows easy retrofitting of all communication components. Two different communication modules can be used at the same time.
- Simple integration into power monitoring systems with the Basic or Advanced modular metering functions according to IEC 61557-12 for Electronic Trip Units of the 6-series.
- Simple integration into plant monitoring systems for monitoring status / measured values / alarms and warnings / diagnostics / maintenance.
- Significant additional benefits for the switchboard due to the possibility of connecting internal and external input and output modules to the 3VA27 molded case circuit breaker.
- Innovative software products for commissioning, testing, parameterization, operation, monitoring, documentation and diagnostics of molded case circuit breakers, locally via display, test or gateway devices, or via the communication modules.
- Integration of the molded case circuit breakers into the Totally Integrated Power (TIP) solutions.

© Siemens 2019

Benefits

Low space requirements

The 3VA27 molded case circuit breakers are extremely compact. 3-pole and 4-pole devices fit into a 400 mm wide switchboard panel. Two 3-pole 3VA27 circuit breakers can also be installed side by side in a 600 mm wide switchboard panel. There is no derating of the molded case circuit breaker according to IEC 60947-2 up to 70 °C.

Reduced complexity

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

Modular design

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

Flexible connection and mounting options

The 3VA27 molded case circuit breaker has a variety of front and rear panel connection options for cables and bars as well as the possibility of direct installation on the rear panel or floor of the control cabinet.

Retrofittable modules for Electronic Trip Units

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

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

Communication/metering functions

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

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

Integrated energy management combined with a direct Ethernet communications interface makes it possible to standardize the protection and measurement architecture of a switchboard in the 3VA27 molded case circuit breaker. This offers benefits with respect to space-saving and low-effort design, as well as with respect to the configuration of power distribution in industry and infrastructure.

New standards in CAx and engineering support

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

Extended protection functions of the Electronic Trip Unit

Extended and directed protection functions support a variety of applications. They provide answers to the challenges of distributed power supply systems in the context of the energy turnaround. The 3VA27 provides customized solutions in the form of tie breakers for UPS systems or in the network system, which requires direction-dependent protection settings and a selective response.

Application

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

When connected to an electronic I&C system, the 3VA27 molded case circuit breakers offer a wide range of options for monitoring network events.

Molded case circuit breakers belong to the SENTRON product family of protection, switching, measuring and monitoring devices and can be used in applications between 25 A and 1600 A.

The AC version devices are available as molded case circuit breakers and non-automatic air circuit breakers according to IEC 60947-3 and IEC 60947-2 Annex L (CBI-Y).

Standards

The 3VA27 molded case circuit breakers comply with:

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

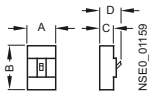
Note for non-automatic air circuit breakers

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

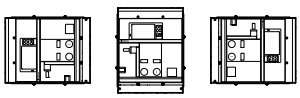
Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

Technical specifications

Breaking capacity						M (M)	H (H)	C (C)
Number of poles						3-pole, 4-pole		
Rated operational current		I_n	40 °C		A	800, 1000, 1250, 1600		
Rated operational voltage		U_e	AC (50/60 Hz)		V	690		
Rated insulation voltage		U_i	AC (50/60 Hz)		V	1000		
Rated impulse withstand voltage		U_{imp}		kV		8		
Rated ultimate short-circuit breaking capacity AC		I_{cu}	220 … 230 V AC	kA		100	150	200
		I_{cu}	380 ... 415 V AC	kA		55	85	110
		I_{cu}	440 V AC	kA		55	85	100
		I_{cu}	500 V AC	kA		36	55	85
		I_{cu}	690 V AC	kA		25	36	50
Rated service short-circuit breaking capacity AC		I_{cs}	220 … 230 V AC	kA		100	150	200
		I_{cs}	380 ... 415 V AC	kA		55	85	110
		I_{cs}	440 V AC	kA		55	85	100
		I_{cs}	500 V AC	kA		36	55	63
		I_{cs}	690 V AC	kA		25	36	36
Rated short-circuit making capacity AC		I_{cm}	220 … 230 V AC	kA		220	330	440
		I_{cm}	380 ... 415 V AC	kA		121	187	242
		I_{cm}	440 V AC	kA		121	187	220
		I_{cm}	500 V AC	kA		76	121	187
		I_{cm}	690 V AC	kA		53	76	105
Rated short-time withstand current		I_{cw}	1 s	kA		20	20	20
Rated conditional short-circuit current of the non-automatic air circuit breakers		I_{cc}		kA		20	--	--
Dimensions	Width	3-pole	A	Fixed / Withdrawable	mm	210 / 278		
		4-pole	A			280 / 348		
	Height	With fitted auxiliary circuit connector	B	Fixed / Withdrawable	mm	291 / 363.5		
		Without auxiliary supply connector	B	Fixed / Withdrawable	mm	268 / 363.5		
	Depth	With stored energy operating mechanism	C = D	Fixed / Withdrawable	mm	183 / 271		
		With toggle operating mechanism	C			171 / 271		
		With toggle operating mechanism	D			225 / 325		
Weight (with ETU and current sensor, 3-pole)				Fixed / Withdrawable	kg	14 / 38		
Weight (with ETU and current sensor, 4-pole)				Fixed / Withdrawable	kg	16 / 43		

© Siemens 2019

Breaking capacity			M (M)	H (H)	C (C)
Mounting position	Fixed-mounted version				
	Withdrawable version				
Switching frequency	Mechanical	1/h	60		
	Electrical	1/h	30		
Endurance	Mechanical	Operating cycles	10000		
	Electrical ≤ 440 V AC	Operating cycles	2000		
	Electrical ≤ 690 V AC	Operating cycles	500		
Power loss	Fixed-mounted version	W	800 A: 19.3 W per phase 60 W per device		
		W	1000 A: 30 W per phase 90 W per device		
		W	1250 A: 47 W per phase 141 W per device		
		W	1600 A: 77 W per phase 231 W per device		
	Withdrawable version	W	800 A: 35.3 W per phase 106 W per device		
		W	1000 A: 55 W per phase 165 W per device		
		W	1250 A: 86 W per phase 258 W per device		
		W	1600 A: 141 W per phase 423 W per device		

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

© Siemens 2019

Undervoltage release (UVR)

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

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

Note

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

Technical specifications

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

Time-delay device (adjustable) for UVR

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

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

Note

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

The time-delay device is installed outside the molded case circuit breaker on a DIN rail.

Technical specifications

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

Closing coil (CC) / shunt release (ST)

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

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

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

Technical specifications

		AC	DC
Power supply (U_n)	24 V	✓	✓
	30 V	✓	✓
	48 V	✓	✓
	60 V	✓	✓
	110 ... 120 V	✓	✓
	220 ... 240 V	✓	✓
	240 ... 250 V	✓	✓
	380 ... 400 V	✓	✓
	415 ... 440 V	✓	✓
Operating limits		ST: 70 ... 110% U_n CC: 85 ... 110% U_n	
Switch-on power		300 VA	300 W
Continuous power		3.5 VA	3.5 W
Break time ST		35 ms	
Make time CC		50 ms	

Remote reset magnet (RR)

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

Technical specifications

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

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

© Siemens 2019

Spring charging motor (MO)

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

Technical specifications

		AC	DC
Power supply (U_n)	24 V	✓	✓
	30 V	✓	✓
	48 V	✓	✓
	60 V	✓	✓
	100 ... 130 V	✓	✓
	220 ... 250 V	✓	✓
Operating limits (acc. to IEC 60947-2)		85 ... 110% U_n	
Switch-on power		300 VA	300 W
Continuous power		100 VA	100 W
Make time (inrush time until start of charging)		200 ms	
Charging time		7 s	

Spring charged signaling switch (S21)

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

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

Technical specifications

			Standard contact	Contact for digital signal
Type			Changeover contact	Changeover contact
Smallest load			100 mA at 24 V	1 mA at 5 V
Breaking capacity	DC	24 V	--	0.1 A
		125 V	0.3 A at 0 ms	--
		250 V	0.15 A at 0 ms	--
	AC	250 V	5 A at p.f. 1	--
			5 A at p.f. 0.7	--
			5 A at p.f. 0.3	--
		400 V	3 A at p.f. 1	--
			2 A at p.f. 0.7	--
			1 A at p.f. 0.3	--

Position signaling switch PSS for guide frame

The position signaling switches are used in the withdrawable version and signal whether the molded case circuit breaker is in the "CONNECT", "TEST" or "DISCONNECT" position. Two changeover contacts are available for displaying each position. The PSS contacts are always included in the guide frame.

Technical specifications

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

			Standard contact	Contact for digital signal
Type			Changeover contact	Changeover contact
Smallest load			100 mA at 24 V	1 mA at 5 V
Breaking capacity	DC	24 V	--	0.1 A
		125 V	0.3 A at 0 ms	--
		250 V	0.15 A at 0 ms	--
	AC	250 V	5 A at p.f. 1	--
			5 A at p.f. 0.7	--
			5 A at p.f. 0.3	--
		400 V	3 A at p.f. 1	--
			2 A at p.f. 0.7	--
			1 A at p.f. 0.3	--

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

© Siemens 2019

Ready-to-close signaling switch (RTC)

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

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

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

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

Technical specifications

			Standard contact	Contact for digital signal
Type			Changeover contact	
Smallest load			100 mA at 24 V	1 mA at 5 V
Breaking capacity	DC	24 V	--	0.1 A
		250 V	0.5 A at 0 ms	--
			0.2 A at 10 ms	--
	AC	250 V	3 A at p.f. 0.7	--

Auxiliary switch AUX

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

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

Technical specifications

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

			Standard contact	Contact for digital signal
Type			Changeover contact	Changeover contact
Smallest load			100 mA at 24 V	1 mA at 5 V
Breaking capacity	DC	24 V	--	0.1 A
		125 V	0.3 A at 10 ms	--
		250 V	0.15 A at 10 ms	--
	AC	250 V	5 A at p.f. 1	--
			5 A at p.f. 0.7	--
			5 A at p.f. 0.3	--
		400 V	3 A at p.f. 1	--
			2 A at p.f. 0.7	--
			1 A at p.f. 0.3	--

Tripped signaling switch (TAS)

The tripped signaling switch (TAS) signals every type of tripping of the molded case circuit breaker:

- Tripping of the ETU due to overcurrent (overload, short-circuit, ...)
- Tripping of the ETU by the residual current module Rc
- Tripping by the shunt release or undervoltage release
- Mechanical tripping by PUSH TO TRIP button

Tripped signaling switch (S24)

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

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

Technical specifications

			Standard contact	Contact for digital signal
Type			Changeover contact	
Smallest load			100 mA at 24 V	1 mA at 5 V
Breaking capacity	DC	24 V	--	0.1 A
		250 V	0.5 A at 0 ms	--
			0.2 A at 10 ms	--
	AC	250 V	3 A at p.f. 0.7	--

Tripped signaling switch via auxiliary release (S25)

The tripped signaling switch via auxiliary release (S25) signals tripping of the molded case circuit breaker by shunt release or undervoltage release.

The tripped signaling switch via auxiliary release (S25) can only be used for 3VA27 molded case circuit breakers with toggle.

Leading changeover switch (S26)

The leading changeover switch (S26) signals the opening of the main contacts in advance of the molded case circuit breaker trips and is thus used for load shedding, for example.

The leading changeover switch (S26) can only be used for 3VA27 molded case circuit breakers with toggle.

Breaker Connect module, external power supply

Via the Breaker Connect module, the Electronic Trip Units and accessory modules (communications and digital I/O module IOM040) on the terminal strip can be fed with an auxiliary AC or DC supply available in the switchboard. The external power supply module can be installed at any time on the terminal strip of the molded case circuit breaker and permits installation of plug-in modules for communication and digital inputs/outputs.

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

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

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

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

© Siemens 2019

Actuator module (COM ACT)

The actuator module (COM ACT) is a communications interface for the remote operation of auxiliary solenoids (CC/ST). With the actuator module, the 3VA27 molded case circuit breaker can be opened and closed by remote access parallel to access via the auxiliary conductor terminal system.

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

Position signaling switch communication (COM PSS)

The position signaling switch COM PSS provides the signal via the communications interface indicating whether the molded case circuit breaker in the guide frame is inserted or removed.

Unlike the position signaling switch PSS, whose signals are available at the auxiliary conductor terminal system (see accessories overview on page 2/200) the position signaling switch COM PSS only signals two different states:

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

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

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

The ready-to-close signaling switch COM RTC provides the same information as the ready-to-close signaling switch RTC (see accessories overview on page 2/200), i.e. it is used to query whether the molded case circuit breaker is ready to close.

Unlike the RTC signaling switch, whose signals are available at the auxiliary conductor terminal system, the signals of the ready-to-close signaling switch COM RTC are forwarded via the communications interface.

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

Internal digital I/O module IOM040

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

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

External digital I/O module IOM300

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

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

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

© Siemens 2019

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

© Siemens 2019

Function overview of the electronic trip system

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

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

© Siemens 2019

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

© Siemens 2019

Function overview of the electronic trip system

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

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

© Siemens 2019

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

© Siemens 2019

Function overview of the electronic trip system

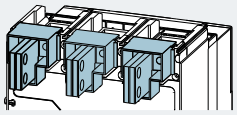
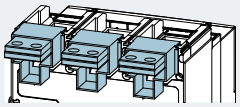
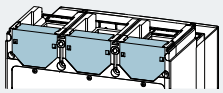
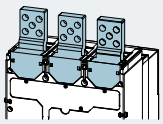
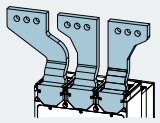
Equipment features of the ETU types	ETU320 LI	ETU350 LSI	ETU360 LSIG	ETU650 LSI	ETU660 LSIG
Protection					
Line protection	✓	✓	✓	✓	✓
Generator protection	✓	✓	✓	✓	✓
Residual current protection (Rc)	--	--	--	--	✓
Ground-fault protection with current measurement at the star point (G_{RET})	--	--	--	--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

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

© Siemens 2019

© Siemens 2019

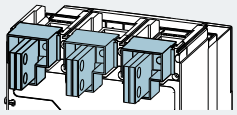
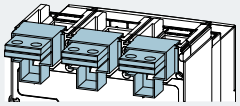
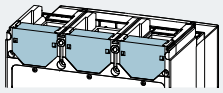
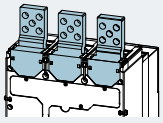
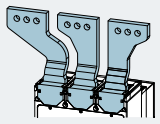
Selection and ordering data

Note: Always with S24, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n\,max}$ A	SD d	I_{cu} 55 kA at 415 V, breaking capacity M (M) — Article No. www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
Rear vertical connection							
	800		**3VA2780-5□□01-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5□□01-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5□□01-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5□□01-□□□□**		1	1 unit	1CB
Rear horizontal connection							
	800		**3VA2780-5□□02-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5□□02-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5□□02-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5□□02-□□□□**		1	1 unit	1CB
Front terminal for main circuit connection							
	800		**3VA2780-5□□03-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5□□03-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5□□03-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5□□03-□□□□**		1	1 unit	1CB
Straight bus connectors extended							
	800		**3VA2780-5□□05-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5□□05-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5□□05-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5□□05-□□□□**		1	1 unit	1CB
Broadened bus connectors							
	800		**3VA2780-5□□06-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5□□06-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5□□06-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5□□06-□□□□**		1	1 unit	1CB

Versions				Additional price
ETUs 3-series – Communications interface and metering function not possible				
with ETU320 (LI)	**A**	**B**		✓
with ETU350 (LSI)	**A**	**C**		✓
with ETU360 (LSIG)	**A**	**D**		✓
ETUs 6-series – Expandable with communications interface and metering function				
with ETU650 (LSI)		**E**		✓
with ETU660 (LSIG)		**F**		✓
Without communications interface, without metering function	**A**			**None**
With communications interface, without metering function	**B**			✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**			✓
With communications interface, with Basic metering function (voltage tap at top)	**D**			✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**			✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**			✓

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

© Siemens 2019

	Note: Always with S24, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n\,max}$ A	SD d	I_{cu} 85 kA at 415 V, breaking capacity H (H) — Article No. www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
Rear vertical connection								
		800 1000 1250 1600		**3VA2780-6□□01-□□□□** **3VA2710-6□□01-□□□□** **3VA2712-6□□01-□□□□** **3VA2716-6□□01-□□□□**		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Rear horizontal connection								
		800 1000 1250 1600		**3VA2780-6□□02-□□□□** **3VA2710-6□□02-□□□□** **3VA2712-6□□02-□□□□** **3VA2716-6□□02-□□□□**		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Front terminal for main circuit connection								
		800 1000 1250 1600		**3VA2780-6□□03-□□□□** **3VA2710-6□□03-□□□□** **3VA2712-6□□03-□□□□** **3VA2716-6□□03-□□□□**		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Straight bus connectors extended								
		800 1000 1250 1600		**3VA2780-6□□05-□□□□** **3VA2710-6□□05-□□□□** **3VA2712-6□□05-□□□□** **3VA2716-6□□05-□□□□**		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Broadened bus connectors								
		800 1000 1250 1600		**3VA2780-6□□06-□□□□** **3VA2710-6□□06-□□□□** **3VA2712-6□□06-□□□□** **3VA2716-6□□06-□□□□**		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB

Versions			Additional price
ETUs 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	**A**	**B**	✓
with ETU350 (LSI)	**A**	**C**	✓
with ETU360 (LSIG)	**A**	**D**	✓
ETUs 6-series – Expandable with communications interface and metering function			
with ETU650 (LSI)		**E**	✓
with ETU660 (LSIG)		**F**	✓
Without communications interface, without metering function	**A**		**None**
With communications interface, without metering function	**B**		✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**		✓
With communications interface, with Basic metering function (voltage tap at top)	**D**		✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**		✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**		✓

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

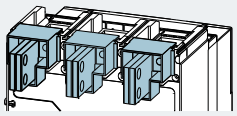
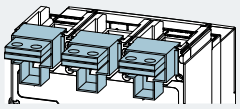
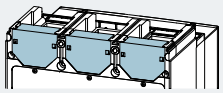
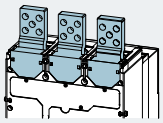
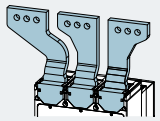
© Siemens 2019

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers NEW

3-pole, fixed-mounted versions with toggle

Note: Always with S24, AUX 4 CO signaling and auxiliary switches

Max. rated circuit breaker current $I_{n\,max}$ A	SD d	I_{cu} 110 kA at 415 V, breaking capacity C (C) Article No. www.siemens.com/product?Article No.	PU (UNIT, SET, M)	PS	PG
Rear vertical connection					
					
800		**3VA2780-7□□01-□□□□**	1	1 unit	1CB
1000		**3VA2710-7□□01-□□□□**	1	1 unit	1CB
1250		**3VA2712-7□□01-□□□□**	1	1 unit	1CB
1600		**3VA2716-7□□01-□□□□**	1	1 unit	1CB
Rear horizontal connection					
					
800		**3VA2780-7□□02-□□□□**	1	1 unit	1CB
1000		**3VA2710-7□□02-□□□□**	1	1 unit	1CB
1250		**3VA2712-7□□02-□□□□**	1	1 unit	1CB
1600		**3VA2716-7□□02-□□□□**	1	1 unit	1CB
Front terminal for main circuit connection					
					
800		**3VA2780-7□□03-□□□□**	1	1 unit	1CB
1000		**3VA2710-7□□03-□□□□**	1	1 unit	1CB
1250		**3VA2712-7□□03-□□□□**	1	1 unit	1CB
1600		**3VA2716-7□□03-□□□□**	1	1 unit	1CB
Straight bus connectors extended					
					
800		**3VA2780-7□□05-□□□□**	1	1 unit	1CB
1000		**3VA2710-7□□05-□□□□**	1	1 unit	1CB
1250		**3VA2712-7□□05-□□□□**	1	1 unit	1CB
1600		**3VA2716-7□□05-□□□□**	1	1 unit	1CB
Broadened bus connectors					
					
800		**3VA2780-7□□06-□□□□**	1	1 unit	1CB
1000		**3VA2710-7□□06-□□□□**	1	1 unit	1CB
1250		**3VA2712-7□□06-□□□□**	1	1 unit	1CB
1600		**3VA2716-7□□06-□□□□**	1	1 unit	1CB

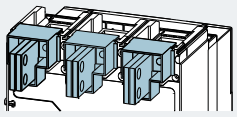
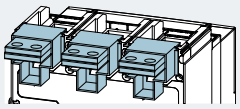
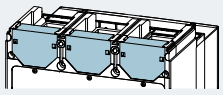
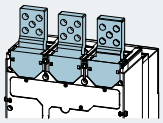
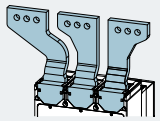
Versions			Additional price
ETUs 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	**A**	**B**	✓
with ETU350 (LSI)	**A**	**C**	✓
with ETU360 (LSIG)	**A**	**D**	✓
ETUs 6-series – Expandable with communications interface and metering function			
with ETU650 (LSI)		**E**	✓
with ETU660 (LSIG)		**F**	✓
Without communications interface, without metering function	**A**		**None**
With communications interface, without metering function	**B**		✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**		✓
With communications interface, with Basic metering function (voltage tap at top)	**D**		✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**		✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**		✓

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

© Siemens 2019

3-pole, fixed-mounted versions with stored energy operating mechanism

Note:
Always with S24, RTC, AUX 4 CO signaling and auxiliary switches

Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cu} 55 kA at 415 V, breaking capacity M (M)		PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?Article No.	Basic price per PU			
A	d					
Rear vertical connection						
						
800		**3VA2780-1□□01-□□□□**		1	1 unit	1CB
1000		**3VA2710-1□□01-□□□□**		1	1 unit	1CB
1250		**3VA2712-1□□01-□□□□**		1	1 unit	1CB
1600		**3VA2716-1□□01-□□□□**		1	1 unit	1CB
Rear horizontal connection						
						
800		**3VA2780-1□□02-□□□□**		1	1 unit	1CB
1000		**3VA2710-1□□02-□□□□**		1	1 unit	1CB
1250		**3VA2712-1□□02-□□□□**		1	1 unit	1CB
1600		**3VA2716-1□□02-□□□□**		1	1 unit	1CB
Front terminal for main circuit connection						
						
800		**3VA2780-1□□03-□□□□**		1	1 unit	1CB
1000		**3VA2710-1□□03-□□□□**		1	1 unit	1CB
1250		**3VA2712-1□□03-□□□□**		1	1 unit	1CB
1600		**3VA2716-1□□03-□□□□**		1	1 unit	1CB
Straight bus connectors extended						
						
800		**3VA2780-1□□05-□□□□**		1	1 unit	1CB
1000		**3VA2710-1□□05-□□□□**		1	1 unit	1CB
1250		**3VA2712-1□□05-□□□□**		1	1 unit	1CB
1600		**3VA2716-1□□05-□□□□**		1	1 unit	1CB
Broadened bus connectors						
						
800		**3VA2780-1□□06-□□□□**		1	1 unit	1CB
1000		**3VA2710-1□□06-□□□□**		1	1 unit	1CB
1250		**3VA2712-1□□06-□□□□**		1	1 unit	1CB
1600		**3VA2716-1□□06-□□□□**		1	1 unit	1CB

Versions								Additional price
ETUs 3-series – Communications interface and metering function not possible								
with ETU320 (LI)	**A**	**B**						✓
with ETU350 (LSI)	**A**	**C**						✓
with ETU360 (LSIG)	**A**	**D**						✓
ETUs 6-series – Expandable with communications interface and metering function								
with ETU650 (LSI)			**E**					✓
with ETU660 (LSIG)			**F**					✓
Without communications interface, without metering function	**A**							**None**
With communications interface, without metering function	**B**							✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**							✓
With communications interface, with Basic metering function (voltage tap at top)	**D**							✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**							✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**							✓

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

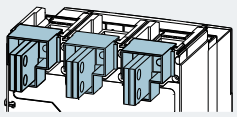
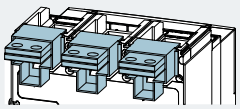
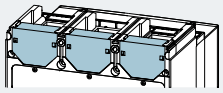
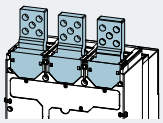
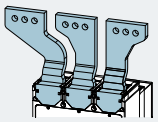
© Siemens 2019

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers NEW

3-pole, fixed-mounted versions with stored energy operating mechanism

Note: Always with S24, RTC, AUX 4 CO signaling and auxiliary switches

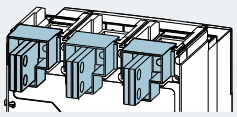
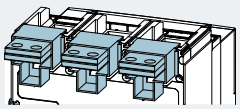
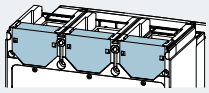
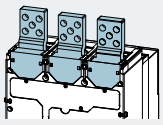
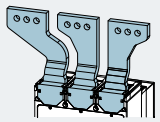
Max. rated circuit breaker current $I_{n\,max}$ A	SD d	I_{cu} 85 kA at 415 V, breaking capacity H (H) Article No. www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
Rear vertical connection						
						
800		**3VA2780-2□□01-□□□□**		1	1 unit	1CB
1000		**3VA2710-2□□01-□□□□**		1	1 unit	1CB
1250		**3VA2712-2□□01-□□□□**		1	1 unit	1CB
1600		**3VA2716-2□□01-□□□□**		1	1 unit	1CB
Rear horizontal connection						
						
800		**3VA2780-2□□02-□□□□**		1	1 unit	1CB
1000		**3VA2710-2□□02-□□□□**		1	1 unit	1CB
1250		**3VA2712-2□□02-□□□□**		1	1 unit	1CB
1600		**3VA2716-2□□02-□□□□**		1	1 unit	1CB
Front terminal for main circuit connection						
						
800		**3VA2780-2□□03-□□□□**		1	1 unit	1CB
1000		**3VA2710-2□□03-□□□□**		1	1 unit	1CB
1250		**3VA2712-2□□03-□□□□**		1	1 unit	1CB
1600		**3VA2716-2□□03-□□□□**		1	1 unit	1CB
Straight bus connectors extended						
						
800		**3VA2780-2□□05-□□□□**		1	1 unit	1CB
1000		**3VA2710-2□□05-□□□□**		1	1 unit	1CB
1250		**3VA2712-2□□05-□□□□**		1	1 unit	1CB
1600		**3VA2716-2□□05-□□□□**		1	1 unit	1CB
Broadened bus connectors						
						
800		**3VA2780-2□□06-□□□□**		1	1 unit	1CB
1000		**3VA2710-2□□06-□□□□**		1	1 unit	1CB
1250		**3VA2712-2□□06-□□□□**		1	1 unit	1CB
1600		**3VA2716-2□□06-□□□□**		1	1 unit	1CB

Versions			Additional price
ETUs 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	**A**	**B**	✓
with ETU350 (LSI)	**A**	**C**	✓
with ETU360 (LSIG)	**A**	**D**	✓
ETUs 6-series – Expandable with communications interface and metering function			
with ETU650 (LSI)		**E**	✓
with ETU660 (LSIG)		**F**	✓
Without communications interface, without metering function	**A**		**None**
With communications interface, without metering function	**B**		✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**		✓
With communications interface, with Basic metering function (voltage tap at top)	**D**		✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**		✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**		✓

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

© Siemens 2019

Note:
Always with S24, RTC, AUX 4 CO signaling and auxiliary switches

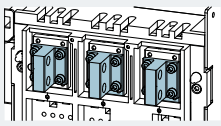
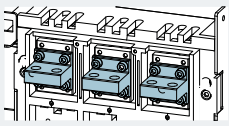
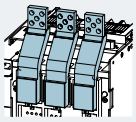
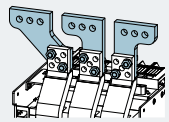
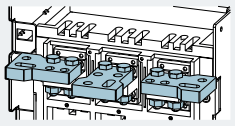
Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cu} 110 kA at 415 V, breaking capacity C (C)		PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?Article No.	Basic price per PU			
A	d					
Rear vertical connection						
						
800		**3VA2780-3□□01-□□□□**		1	1 unit	1CB
1000		**3VA2710-3□□01-□□□□**		1	1 unit	1CB
1250		**3VA2712-3□□01-□□□□**		1	1 unit	1CB
1600		**3VA2716-3□□01-□□□□**		1	1 unit	1CB
Rear horizontal connection						
						
800		**3VA2780-3□□02-□□□□**		1	1 unit	1CB
1000		**3VA2710-3□□02-□□□□**		1	1 unit	1CB
1250		**3VA2712-3□□02-□□□□**		1	1 unit	1CB
1600		**3VA2716-3□□02-□□□□**		1	1 unit	1CB
Front terminal for main circuit connection						
						
800		**3VA2780-3□□03-□□□□**		1	1 unit	1CB
1000		**3VA2710-3□□03-□□□□**		1	1 unit	1CB
1250		**3VA2712-3□□03-□□□□**		1	1 unit	1CB
1600		**3VA2716-3□□03-□□□□**		1	1 unit	1CB
Straight bus connectors extended						
						
800		**3VA2780-3□□05-□□□□**		1	1 unit	1CB
1000		**3VA2710-3□□05-□□□□**		1	1 unit	1CB
1250		**3VA2712-3□□05-□□□□**		1	1 unit	1CB
1600		**3VA2716-3□□05-□□□□**		1	1 unit	1CB
Broadened bus connectors						
						
800		**3VA2780-3□□06-□□□□**		1	1 unit	1CB
1000		**3VA2710-3□□06-□□□□**		1	1 unit	1CB
1250		**3VA2712-3□□06-□□□□**		1	1 unit	1CB
1600		**3VA2716-3□□06-□□□□**		1	1 unit	1CB

Versions			Additional price
ETUs 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	**A**	**B**	✓
with ETU350 (LSI)	**A**	**C**	✓
with ETU360 (LSIG)	**A**	**D**	✓
ETUs 6-series – Expandable with communications interface and metering function			
with ETU650 (LSI)		**E**	✓
with ETU660 (LSIG)		**F**	✓
Without communications interface, without metering function	**A**		**None**
With communications interface, without metering function	**B**		✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**		✓
With communications interface, with Basic metering function (voltage tap at top)	**D**		✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**		✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**		✓

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

© Siemens 2019

3-pole, withdrawable versions with toggle

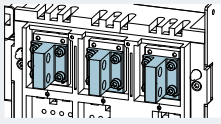
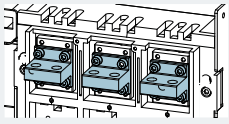
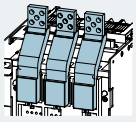
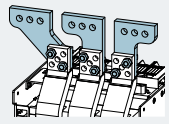
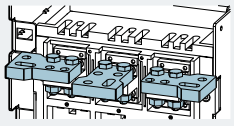
Note: Always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n\,max}$ A	SD d	I_{cu} 55 kA at 415 V, breaking capacity M (M) Article No. www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
Withdrawable breaker version without guide frame							
	800		**3VA2780-5□□30-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5□□30-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5□□30-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5□□30-□□□□**		1	1 unit	1CB
With guide frame, rear vertical connection							
	800		**3VA2780-5□□31-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5□□31-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5□□31-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5□□31-□□□□**		1	1 unit	1CB
With guide frame, rear horizontal connection							
	800		**3VA2780-5□□32-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5□□32-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5□□32-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5□□32-□□□□**		1	1 unit	1CB
With guide frame, front straight bus connectors extended							
	800		**3VA2780-5□□35-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5□□35-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5□□35-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5□□35-□□□□**		1	1 unit	1CB
With guide frame, broadened bus connectors							
	800		**3VA2780-5□□36-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5□□36-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5□□36-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5□□36-□□□□**		1	1 unit	1CB
With guide frame, rear broadened bus connectors							
	800		**3VA2780-5□□37-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5□□37-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5□□37-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5□□37-□□□□**		1	1 unit	1CB

Versions				Additional price
ETUs 3-series – Communications interface and metering function not possible				
with ETU320 (LI)	**A**	**B**		✓
with ETU350 (LSI)	**A**	**C**		✓
with ETU360 (LSIG)	**A**	**D**		✓
ETUs 6-series – Expandable with communications interface and metering function				
with ETU650 (LSI)		**E**		✓
with ETU660 (LSIG)		**F**		✓
Without communications interface, without metering function	**A**			**None**
With communications interface, without metering function	**B**			✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**			✓
With communications interface, with Basic metering function (voltage tap at top)	**D**			✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**			✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**			✓

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

© Siemens 2019

Note: Always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches

Max. rated circuit breaker current $I_{n\ max}$	SD	I_{cu} 85 kA at 415 V, breaking capacity H (H)		PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?Article No.	Basic price per PU			
A	d					
Withdrawable breaker version without guide frame						
800		**3VA2780-6□□30-□□□□**		1	1 unit	1CB
1000		**3VA2710-6□□30-□□□□**		1	1 unit	1CB
1250		**3VA2712-6□□30-□□□□**		1	1 unit	1CB
1600		**3VA2716-6□□30-□□□□**		1	1 unit	1CB
With guide frame, rear vertical connection						
						
800		**3VA2780-6□□31-□□□□**		1	1 unit	1CB
1000		**3VA2710-6□□31-□□□□**		1	1 unit	1CB
1250		**3VA2712-6□□31-□□□□**		1	1 unit	1CB
1600		**3VA2716-6□□31-□□□□**		1	1 unit	1CB
With guide frame, rear horizontal connection						
						
800		**3VA2780-6□□32-□□□□**		1	1 unit	1CB
1000		**3VA2710-6□□32-□□□□**		1	1 unit	1CB
1250		**3VA2712-6□□32-□□□□**		1	1 unit	1CB
1600		**3VA2716-6□□32-□□□□**		1	1 unit	1CB
With guide frame, front straight bus connectors extended						
						
800		**3VA2780-6□□35-□□□□**		1	1 unit	1CB
1000		**3VA2710-6□□35-□□□□**		1	1 unit	1CB
1250		**3VA2712-6□□35-□□□□**		1	1 unit	1CB
1600		**3VA2716-6□□35-□□□□**		1	1 unit	1CB
With guide frame, broadened bus connectors						
						
800		**3VA2780-6□□36-□□□□**		1	1 unit	1CB
1000		**3VA2710-6□□36-□□□□**		1	1 unit	1CB
1250		**3VA2712-6□□36-□□□□**		1	1 unit	1CB
1600		**3VA2716-6□□36-□□□□**		1	1 unit	1CB
With guide frame, rear broadened bus connectors						
						
800		**3VA2780-6□□37-□□□□**		1	1 unit	1CB
1000		**3VA2710-6□□37-□□□□**		1	1 unit	1CB
1250		**3VA2712-6□□37-□□□□**		1	1 unit	1CB
1600		**3VA2716-6□□37-□□□□**		1	1 unit	1CB

Versions			Additional price
ETUs 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	**A**	**B**	✓
with ETU350 (LSI)	**A**	**C**	✓
with ETU360 (LSIG)	**A**	**D**	✓
ETUs 6-series – Expandable with communications interface and metering function			
with ETU650 (LSI)		**E**	✓
with ETU660 (LSIG)		**F**	✓
Without communications interface, without metering function	**A**		**None**
With communications interface, without metering function	**B**		✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**		✓
With communications interface, with Basic metering function (voltage tap at top)	**D**		✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**		✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**		✓

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

© Siemens 2019

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers NEW

3-pole, withdrawable versions with toggle

Note:
Always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches

Max. rated circuit breaker current $I_{n\,max}$ A	SD d	I_{cu} 110 kA at 415 V, breaking capacity C (C) Article No. www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
Withdrawable breaker version without guide frame						
800		**3VA2780-7□□30-□□□□**		1	1 unit	1CB
1000		**3VA2710-7□□30-□□□□**		1	1 unit	1CB
1250		**3VA2712-7□□30-□□□□**		1	1 unit	1CB
1600		**3VA2716-7□□30-□□□□**		1	1 unit	1CB
With guide frame, rear vertical connection						
800		**3VA2780-7□□31-□□□□**		1	1 unit	1CB
1000		**3VA2710-7□□31-□□□□**		1	1 unit	1CB
1250		**3VA2712-7□□31-□□□□**		1	1 unit	1CB
1600		**3VA2716-7□□31-□□□□**		1	1 unit	1CB
With guide frame, rear horizontal connection						
800		**3VA2780-7□□32-□□□□**		1	1 unit	1CB
1000		**3VA2710-7□□32-□□□□**		1	1 unit	1CB
1250		**3VA2712-7□□32-□□□□**		1	1 unit	1CB
1600		**3VA2716-7□□32-□□□□**		1	1 unit	1CB
With guide frame, front straight bus connectors extended						
800		**3VA2780-7□□35-□□□□**		1	1 unit	1CB
1000		**3VA2710-7□□35-□□□□**		1	1 unit	1CB
1250		**3VA2712-7□□35-□□□□**		1	1 unit	1CB
1600		**3VA2716-7□□35-□□□□**		1	1 unit	1CB
With guide frame, broadened bus connectors						
800		**3VA2780-7□□36-□□□□**		1	1 unit	1CB
1000		**3VA2710-7□□36-□□□□**		1	1 unit	1CB
1250		**3VA2712-7□□36-□□□□**		1	1 unit	1CB
1600		**3VA2716-7□□36-□□□□**		1	1 unit	1CB
With guide frame, rear broadened bus connectors						
800		**3VA2780-7□□37-□□□□**		1	1 unit	1CB
1000		**3VA2710-7□□37-□□□□**		1	1 unit	1CB
1250		**3VA2712-7□□37-□□□□**		1	1 unit	1CB
1600		**3VA2716-7□□37-□□□□**		1	1 unit	1CB

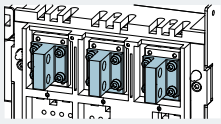
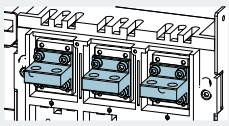
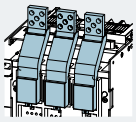
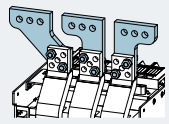
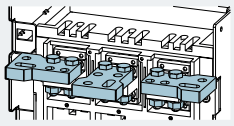
Versions			Additional price
ETUs 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	**A**	**B**	✓
with ETU350 (LSI)	**A**	**C**	✓
with ETU360 (LSIG)	**A**	**D**	✓
ETUs 6-series – Expandable with communications interface and metering function			
with ETU650 (LSI)		**E**	✓
with ETU660 (LSIG)		**F**	✓
Without communications interface, without metering function	**A**		**None**
With communications interface, without metering function	**B**		✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**		✓
With communications interface, with Basic metering function (voltage tap at top)	**D**		✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**		✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**		✓

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

© Siemens 2019

3-pole, withdrawable versions with stored energy operating mechanism

Note:
Always with S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches

Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cu} 55 kA at 415 V, breaking capacity M (M)		PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?Article No.	Basic price per PU			
A	d					
Withdrawable breaker version without guide frame						
800		**3VA2780-1□□30-□□□□**		1	1 unit	1CB
1000		**3VA2710-1□□30-□□□□**		1	1 unit	1CB
1250		**3VA2712-1□□30-□□□□**		1	1 unit	1CB
1600		**3VA2716-1□□30-□□□□**		1	1 unit	1CB
With guide frame, rear vertical connection						
						
800		**3VA2780-1□□31-□□□□**		1	1 unit	1CB
1000		**3VA2710-1□□31-□□□□**		1	1 unit	1CB
1250		**3VA2712-1□□31-□□□□**		1	1 unit	1CB
1600		**3VA2716-1□□31-□□□□**		1	1 unit	1CB
With guide frame, rear horizontal connection						
						
800		**3VA2780-1□□32-□□□□**		1	1 unit	1CB
1000		**3VA2710-1□□32-□□□□**		1	1 unit	1CB
1250		**3VA2712-1□□32-□□□□**		1	1 unit	1CB
1600		**3VA2716-1□□32-□□□□**		1	1 unit	1CB
With guide frame, front straight bus connectors extended						
						
800		**3VA2780-1□□35-□□□□**		1	1 unit	1CB
1000		**3VA2710-1□□35-□□□□**		1	1 unit	1CB
1250		**3VA2712-1□□35-□□□□**		1	1 unit	1CB
1600		**3VA2716-1□□35-□□□□**		1	1 unit	1CB
With guide frame, broadened bus connectors						
						
800		**3VA2780-1□□36-□□□□**		1	1 unit	1CB
1000		**3VA2710-1□□36-□□□□**		1	1 unit	1CB
1250		**3VA2712-1□□36-□□□□**		1	1 unit	1CB
1600		**3VA2716-1□□36-□□□□**		1	1 unit	1CB
With guide frame, rear broadened bus connectors						
						
800		**3VA2780-1□□37-□□□□**		1	1 unit	1CB
1000		**3VA2710-1□□37-□□□□**		1	1 unit	1CB
1250		**3VA2712-1□□37-□□□□**		1	1 unit	1CB
1600		**3VA2716-1□□37-□□□□**		1	1 unit	1CB

Versions				Additional price
ETUs 3-series – Communications interface and metering function not possible				
with ETU320 (LI)	**A**	**B**		✓
with ETU350 (LSI)	**A**	**C**		✓
with ETU360 (LSIG)	**A**	**D**		✓
ETUs 6-series – Expandable with communications interface and metering function				
with ETU650 (LSI)		**E**		✓
with ETU660 (LSIG)		**F**		✓
Without communications interface, without metering function	**A**			**None**
With communications interface, without metering function	**B**			✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**			✓
With communications interface, with Basic metering function (voltage tap at top)	**D**			✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**			✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**			✓

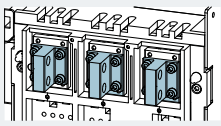
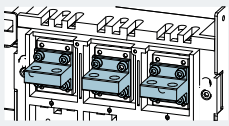
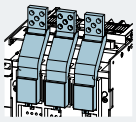
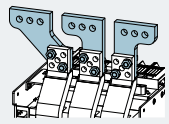
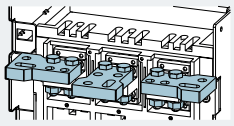
Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

3-pole, withdrawable versions with stored energy operating mechanism

2

Note:
Always with S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches

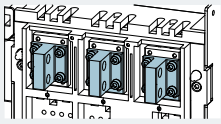
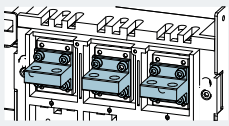
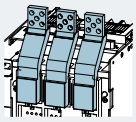
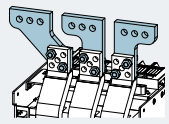
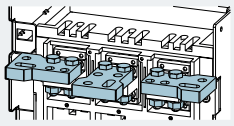
Max. rated circuit breaker current $I_{n\,max}$ A	SD d	I_{cu} 85 kA at 415 V, breaking capacity H (H) — Article No. www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
Withdrawable breaker version without guide frame						
800		**3VA2780-2□□30-□□□□**		1	1 unit	1CB
1000		**3VA2710-2□□30-□□□□**		1	1 unit	1CB
1250		**3VA2712-2□□30-□□□□**		1	1 unit	1CB
1600		**3VA2716-2□□30-□□□□**		1	1 unit	1CB
With guide frame, rear vertical connection						
						
800		**3VA2780-2□□31-□□□□**		1	1 unit	1CB
1000		**3VA2710-2□□31-□□□□**		1	1 unit	1CB
1250		**3VA2712-2□□31-□□□□**		1	1 unit	1CB
1600		**3VA2716-2□□31-□□□□**		1	1 unit	1CB
With guide frame, rear horizontal connection						
						
800		**3VA2780-2□□32-□□□□**		1	1 unit	1CB
1000		**3VA2710-2□□32-□□□□**		1	1 unit	1CB
1250		**3VA2712-2□□32-□□□□**		1	1 unit	1CB
1600		**3VA2716-2□□32-□□□□**		1	1 unit	1CB
With guide frame, front straight bus connectors extended						
						
800		**3VA2780-2□□35-□□□□**		1	1 unit	1CB
1000		**3VA2710-2□□35-□□□□**		1	1 unit	1CB
1250		**3VA2712-2□□35-□□□□**		1	1 unit	1CB
1600		**3VA2716-2□□35-□□□□**		1	1 unit	1CB
With guide frame, broadened bus connectors						
						
800		**3VA2780-2□□36-□□□□**		1	1 unit	1CB
1000		**3VA2710-2□□36-□□□□**		1	1 unit	1CB
1250		**3VA2712-2□□36-□□□□**		1	1 unit	1CB
1600		**3VA2716-2□□36-□□□□**		1	1 unit	1CB
With guide frame, rear broadened bus connectors						
						
800		**3VA2780-2□□37-□□□□**		1	1 unit	1CB
1000		**3VA2710-2□□37-□□□□**		1	1 unit	1CB
1250		**3VA2712-2□□37-□□□□**		1	1 unit	1CB
1600		**3VA2716-2□□37-□□□□**		1	1 unit	1CB

Versions				Additional price
ETUs 3-series – Communications interface and metering function not possible				
with ETU320 (LI)	**A**	**B**		✓
with ETU350 (LSI)	**A**	**C**		✓
with ETU360 (LSIG)	**A**	**D**		✓
ETUs 6-series – Expandable with communications interface and metering function				
with ETU650 (LSI)		**E**		✓
with ETU660 (LSIG)		**F**		✓
Without communications interface, without metering function	**A**			**None**
With communications interface, without metering function	**B**			✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**			✓
With communications interface, with Basic metering function (voltage tap at top)	**D**			✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**			✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**			✓

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

© Siemens 2019

Note:
Always with S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches

Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cu} 110 kA at 415 V, breaking capacity C (C)		PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?Article No.	Basic price per PU			
A	d					
Withdrawable breaker version without guide frame						
800		**3VA2780-3□□30-□□□□**		1	1 unit	1CB
1000		**3VA2710-3□□30-□□□□**		1	1 unit	1CB
1250		**3VA2712-3□□30-□□□□**		1	1 unit	1CB
1600		**3VA2716-3□□30-□□□□**		1	1 unit	1CB
With guide frame, rear vertical connection						
						
800		**3VA2780-3□□31-□□□□**		1	1 unit	1CB
1000		**3VA2710-3□□31-□□□□**		1	1 unit	1CB
1250		**3VA2712-3□□31-□□□□**		1	1 unit	1CB
1600		**3VA2716-3□□31-□□□□**		1	1 unit	1CB
With guide frame, rear horizontal connection						
						
800		**3VA2780-3□□32-□□□□**		1	1 unit	1CB
1000		**3VA2710-3□□32-□□□□**		1	1 unit	1CB
1250		**3VA2712-3□□32-□□□□**		1	1 unit	1CB
1600		**3VA2716-3□□32-□□□□**		1	1 unit	1CB
With guide frame, front straight bus connectors extended						
						
800		**3VA2780-3□□35-□□□□**		1	1 unit	1CB
1000		**3VA2710-3□□35-□□□□**		1	1 unit	1CB
1250		**3VA2712-3□□35-□□□□**		1	1 unit	1CB
1600		**3VA2716-3□□35-□□□□**		1	1 unit	1CB
With guide frame, broadened bus connectors						
						
800		**3VA2780-3□□36-□□□□**		1	1 unit	1CB
1000		**3VA2710-3□□36-□□□□**		1	1 unit	1CB
1250		**3VA2712-3□□36-□□□□**		1	1 unit	1CB
1600		**3VA2716-3□□36-□□□□**		1	1 unit	1CB
With guide frame, rear broadened bus connectors						
						
800		**3VA2780-3□□37-□□□□**		1	1 unit	1CB
1000		**3VA2710-3□□37-□□□□**		1	1 unit	1CB
1250		**3VA2712-3□□37-□□□□**		1	1 unit	1CB
1600		**3VA2716-3□□37-□□□□**		1	1 unit	1CB

Versions			Additional price
ETUs 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	**A**	**B**	✓
with ETU350 (LSI)	**A**	**C**	✓
with ETU360 (LSIG)	**A**	**D**	✓
ETUs 6-series – Expandable with communications interface and metering function)			
with ETU650 (LSI)		**E**	✓
with ETU660 (LSIG)		**F**	✓
Without communications interface, without metering function	**A**		**None**
With communications interface, without metering function	**B**		✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**		✓
With communications interface, with Basic metering function (voltage tap at top)	**D**		✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**		✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**		✓

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

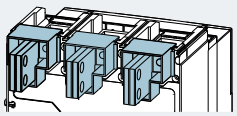
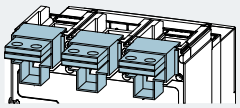
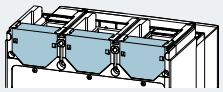
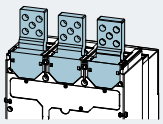
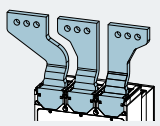
© Siemens 2019

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers NEW

4-pole, fixed-mounted versions with toggle

Note: Always with S24, AUX 4 CO signaling and auxiliary switches

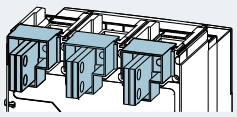
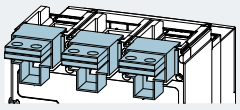
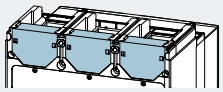
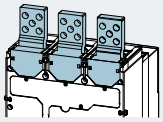
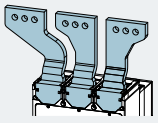
		Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cu} 55 kA at 415 V, breaking capacity M (M)	PU (UNIT, SET, M)	PS	PG
				Article No. www.siemens.com/product?Article No. / Basic price per PU			
		A	d				
Rear vertical connection							
	Neutral left	800		**3VA2780-5□□11-□□□□**	1	1 unit	1CB
		1000		**3VA2710-5□□11-□□□□**	1	1 unit	1CB
		1250		**3VA2712-5□□11-□□□□**	1	1 unit	1CB
		1600		**3VA2716-5□□11-□□□□**	1	1 unit	1CB
	Neutral right	800		**3VA2780-5□□21-□□□□**	1	1 unit	1CB
		1000		**3VA2710-5□□21-□□□□**	1	1 unit	1CB
		1250		**3VA2712-5□□21-□□□□**	1	1 unit	1CB
		1600		**3VA2716-5□□21-□□□□**	1	1 unit	1CB
Rear horizontal connection							
	Neutral left	800		**3VA2780-5□□12-□□□□**	1	1 unit	1CB
		1000		**3VA2710-5□□12-□□□□**	1	1 unit	1CB
		1250		**3VA2712-5□□12-□□□□**	1	1 unit	1CB
		1600		**3VA2716-5□□12-□□□□**	1	1 unit	1CB
	Neutral right	800		**3VA2780-5□□22-□□□□**	1	1 unit	1CB
		1000		**3VA2710-5□□22-□□□□**	1	1 unit	1CB
		1250		**3VA2712-5□□22-□□□□**	1	1 unit	1CB
		1600		**3VA2716-5□□22-□□□□**	1	1 unit	1CB
Front terminal for main circuit connection							
	Neutral left	800		**3VA2780-5□□13-□□□□**	1	1 unit	1CB
		1000		**3VA2710-5□□13-□□□□**	1	1 unit	1CB
		1250		**3VA2712-5□□13-□□□□**	1	1 unit	1CB
		1600		**3VA2716-5□□13-□□□□**	1	1 unit	1CB
	Neutral right	800		**3VA2780-5□□23-□□□□**	1	1 unit	1CB
		1000		**3VA2710-5□□23-□□□□**	1	1 unit	1CB
		1250		**3VA2712-5□□23-□□□□**	1	1 unit	1CB
		1600		**3VA2716-5□□23-□□□□**	1	1 unit	1CB
Front straight bus connectors extended							
	Neutral left	800		**3VA2780-5□□15-□□□□**	1	1 unit	1CB
		1000		**3VA2710-5□□15-□□□□**	1	1 unit	1CB
		1250		**3VA2712-5□□15-□□□□**	1	1 unit	1CB
		1600		**3VA2716-5□□15-□□□□**	1	1 unit	1CB
	Neutral right	800		**3VA2780-5□□25-□□□□**	1	1 unit	1CB
		1000		**3VA2710-5□□25-□□□□**	1	1 unit	1CB
		1250		**3VA2712-5□□25-□□□□**	1	1 unit	1CB
		1600		**3VA2716-5□□25-□□□□**	1	1 unit	1CB
Broadened bus connectors							
	Neutral left	800		**3VA2780-5□□16-□□□□**	1	1 unit	1CB
		1000		**3VA2710-5□□16-□□□□**	1	1 unit	1CB
		1250		**3VA2712-5□□16-□□□□**	1	1 unit	1CB
		1600		**3VA2716-5□□16-□□□□**	1	1 unit	1CB
	Neutral right	800		**3VA2780-5□□26-□□□□**	1	1 unit	1CB
		1000		**3VA2710-5□□26-□□□□**	1	1 unit	1CB
		1250		**3VA2712-5□□26-□□□□**	1	1 unit	1CB
		1600		**3VA2716-5□□26-□□□□**	1	1 unit	1CB

Versions					Additional price
ETUs 3-series – Communications interface and metering function not possible					
with ETU320 (LI)	**A**	**B**			✓
with ETU350 (LSI)	**A**	**C**			✓
with ETU360 (LSIG)	**A**	**D**			✓
ETUs 6-series – Expandable with communications interface and metering function)					
with ETU650 (LSI)		**E**			✓
with ETU660 (LSIG)		**F**			✓
Without communications interface, without metering function	**A**				**None**
With communications interface, without metering function	**B**				✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**				✓
With communications interface, with Basic metering function (voltage tap at top)	**D**				✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**				✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**				✓

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

© Siemens 2019

Note: Always with S24, AUX 4 CO signaling and auxiliary switches

	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cu} 85 kA at 415 V, breaking capacity H (H) Article No. www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	d					
Rear vertical connection							
 Neutral left	800		**3VA2780-6□□11-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□11-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□11-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□11-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-6□□21-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□21-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□21-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□21-□□□□**		1	1 unit	1CB
Rear horizontal connection							
 Neutral left	800		**3VA2780-6□□12-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□12-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□12-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□12-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-6□□22-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□22-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□22-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□22-□□□□**		1	1 unit	1CB
Front terminal for main circuit connection							
 Neutral left	800		**3VA2780-6□□13-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□13-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□13-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□13-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-6□□23-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□23-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□23-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□23-□□□□**		1	1 unit	1CB
Front straight bus connectors extended							
 Neutral left	800		**3VA2780-6□□15-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□15-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□15-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□15-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-6□□25-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□25-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□25-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□25-□□□□**		1	1 unit	1CB
Broadened bus connectors							
 Neutral left	800		**3VA2780-6□□16-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□16-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□16-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□16-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-6□□26-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□26-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□26-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□26-□□□□**		1	1 unit	1CB

Versions					Additional price
ETUs 3-series – Communications interface and metering function not possible					
with ETU320 (LI)	**A**	**B**			✓
with ETU350 (LSI)	**A**	**C**			✓
with ETU360 (LSIG)	**A**	**D**			✓
ETUs 6-series – Expandable with communications interface and metering function					
with ETU650 (LSI)		**E**			✓
with ETU660 (LSIG)		**F**			✓
Without communications interface, without metering function	**A**				**None**
With communications interface, without metering function	**B**				✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**				✓
With communications interface, with Basic metering function (voltage tap at top)	**D**				✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**				✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**				✓

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

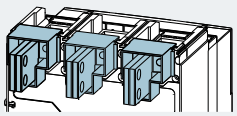
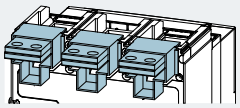
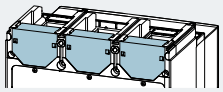
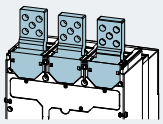
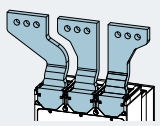
© Siemens 2019

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers NEW

4-pole, fixed-mounted versions with toggle

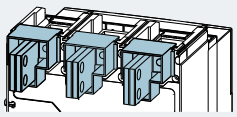
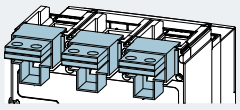
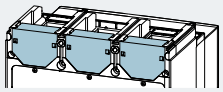
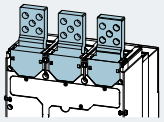
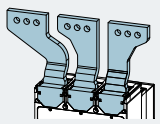
Note: Always with S24, AUX 4 CO signaling and auxiliary switches

		Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cu} 110 kA at 415 V, breaking capacity C (C) Article No. www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
		A	d					
Rear vertical connection								
	Neutral left	800		3VA2780-7□□11-□□□□		1	1 unit	1CB
		1000		3VA2710-7□□11-□□□□		1	1 unit	1CB
		1250		3VA2712-7□□11-□□□□		1	1 unit	1CB
		1600		3VA2716-7□□11-□□□□		1	1 unit	1CB
	Neutral right	800		3VA2780-7□□21-□□□□		1	1 unit	1CB
		1000		3VA2710-7□□21-□□□□		1	1 unit	1CB
		1250		3VA2712-7□□21-□□□□		1	1 unit	1CB
		1600		3VA2716-7□□21-□□□□		1	1 unit	1CB
Rear horizontal connection								
	Neutral left	800		3VA2780-7□□12-□□□□		1	1 unit	1CB
		1000		3VA2710-7□□12-□□□□		1	1 unit	1CB
		1250		3VA2712-7□□12-□□□□		1	1 unit	1CB
		1600		3VA2716-7□□12-□□□□		1	1 unit	1CB
	Neutral right	800		3VA2780-7□□22-□□□□		1	1 unit	1CB
		1000		3VA2710-7□□22-□□□□		1	1 unit	1CB
		1250		3VA2712-7□□22-□□□□		1	1 unit	1CB
		1600		3VA2716-7□□22-□□□□		1	1 unit	1CB
Front terminal for main circuit connection								
	Neutral left	800		3VA2780-7□□13-□□□□		1	1 unit	1CB
		1000		3VA2710-7□□13-□□□□		1	1 unit	1CB
		1250		3VA2712-7□□13-□□□□		1	1 unit	1CB
		1600		3VA2716-7□□13-□□□□		1	1 unit	1CB
	Neutral right	800		3VA2780-7□□23-□□□□		1	1 unit	1CB
		1000		3VA2710-7□□23-□□□□		1	1 unit	1CB
		1250		3VA2712-7□□23-□□□□		1	1 unit	1CB
		1600		3VA2716-7□□23-□□□□		1	1 unit	1CB
Front straight bus connectors extended								
	Neutral left	800		3VA2780-7□□15-□□□□		1	1 unit	1CB
		1000		3VA2710-7□□15-□□□□		1	1 unit	1CB
		1250		3VA2712-7□□15-□□□□		1	1 unit	1CB
		1600		3VA2716-7□□15-□□□□		1	1 unit	1CB
	Neutral right	800		3VA2780-7□□25-□□□□		1	1 unit	1CB
		1000		3VA2710-7□□25-□□□□		1	1 unit	1CB
		1250		3VA2712-7□□25-□□□□		1	1 unit	1CB
		1600		3VA2716-7□□25-□□□□		1	1 unit	1CB
Broadened bus connectors								
	Neutral left	800		3VA2780-7□□16-□□□□		1	1 unit	1CB
		1000		3VA2710-7□□16-□□□□		1	1 unit	1CB
		1250		3VA2712-7□□16-□□□□		1	1 unit	1CB
		1600		3VA2716-7□□16-□□□□		1	1 unit	1CB
	Neutral right	800		3VA2780-7□□26-□□□□		1	1 unit	1CB
		1000		3VA2710-7□□26-□□□□		1	1 unit	1CB
		1250		3VA2712-7□□26-□□□□		1	1 unit	1CB
		1600		3VA2716-7□□26-□□□□		1	1 unit	1CB

Versions					Additional price
ETUs 3-series – Communications interface and metering function not possible					
with ETU320 (LI)	**A**	**B**			✓
with ETU350 (LSI)	**A**	**C**			✓
with ETU360 (LSIG)	**A**	**D**			✓
ETUs 6-series – Expandable with communications interface and metering function					
with ETU650 (LSI)		**E**			✓
with ETU660 (LSIG)		**F**			✓
Without communications interface, without metering function	**A**				**None**
With communications interface, without metering function	**B**				✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**				✓
With communications interface, with Basic metering function (voltage tap at top)	**D**				✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**				✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**				✓

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

© Siemens 2019

Note: Always with S24, RTC, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cu} 55 kA at 415 V, breaking capacity M (M)		PU (UNIT, SET, M)	PS	PG
			Article No. www.siemens.com/product?Article No.	Basic price per PU			
	A	d					
Rear vertical connection							
							
Neutral left	800		**3VA2780-1□□11-□□□□**		1	1 unit	1CB
	1000		**3VA2710-1□□11-□□□□**		1	1 unit	1CB
	1250		**3VA2712-1□□11-□□□□**		1	1 unit	1CB
	1600		**3VA2716-1□□11-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-1□□21-□□□□**		1	1 unit	1CB
	1000		**3VA2710-1□□21-□□□□**		1	1 unit	1CB
	1250		**3VA2712-1□□21-□□□□**		1	1 unit	1CB
	1600		**3VA2716-1□□21-□□□□**		1	1 unit	1CB
Rear horizontal connection							
							
Neutral left	800		**3VA2780-1□□12-□□□□**		1	1 unit	1CB
	1000		**3VA2710-1□□12-□□□□**		1	1 unit	1CB
	1250		**3VA2712-1□□12-□□□□**		1	1 unit	1CB
	1600		**3VA2716-1□□12-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-1□□22-□□□□**		1	1 unit	1CB
	1000		**3VA2710-1□□22-□□□□**		1	1 unit	1CB
	1250		**3VA2712-1□□22-□□□□**		1	1 unit	1CB
	1600		**3VA2716-1□□22-□□□□**		1	1 unit	1CB
Front terminal for main circuit connection							
							
Neutral left	800		**3VA2780-1□□13-□□□□**		1	1 unit	1CB
	1000		**3VA2710-1□□13-□□□□**		1	1 unit	1CB
	1250		**3VA2712-1□□13-□□□□**		1	1 unit	1CB
	1600		**3VA2716-1□□13-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-1□□23-□□□□**		1	1 unit	1CB
	1000		**3VA2710-1□□23-□□□□**		1	1 unit	1CB
	1250		**3VA2712-1□□23-□□□□**		1	1 unit	1CB
	1600		**3VA2716-1□□23-□□□□**		1	1 unit	1CB
Front straight bus connectors extended							
							
Neutral left	800		**3VA2780-1□□15-□□□□**		1	1 unit	1CB
	1000		**3VA2710-1□□15-□□□□**		1	1 unit	1CB
	1250		**3VA2712-1□□15-□□□□**		1	1 unit	1CB
	1600		**3VA2716-1□□15-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-1□□25-□□□□**		1	1 unit	1CB
	1000		**3VA2710-1□□25-□□□□**		1	1 unit	1CB
	1250		**3VA2712-1□□25-□□□□**		1	1 unit	1CB
	1600		**3VA2716-1□□25-□□□□**		1	1 unit	1CB
Broadened bus connectors							
							
Neutral left	800		**3VA2780-1□□16-□□□□**		1	1 unit	1CB
	1000		**3VA2710-1□□16-□□□□**		1	1 unit	1CB
	1250		**3VA2712-1□□16-□□□□**		1	1 unit	1CB
	1600		**3VA2716-1□□16-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-1□□26-□□□□**		1	1 unit	1CB
	1000		**3VA2710-1□□26-□□□□**		1	1 unit	1CB
	1250		**3VA2712-1□□26-□□□□**		1	1 unit	1CB
	1600		**3VA2716-1□□26-□□□□**		1	1 unit	1CB

Versions			Additional price
ETUs 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	**A**	**B**	✓
with ETU350 (LSI)	**A**	**C**	✓
with ETU360 (LSIG)	**A**	**D**	✓
ETUs 6-series – Expandable with communications interface and metering function			
with ETU650 (LSI)		**E**	✓
with ETU660 (LSIG)		**F**	✓
Without communications interface, without metering function	**A**		**None**
With communications interface, without metering function	**B**		✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**		✓
With communications interface, with Basic metering function (voltage tap at top)	**D**		✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**		✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**		✓

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

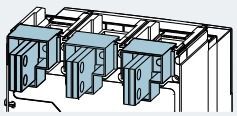
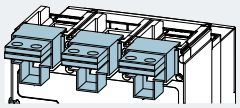
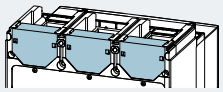
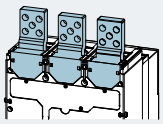
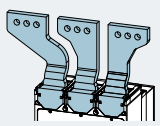
© Siemens 2019

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers NEW

4-pole, fixed-mounted versions with stored energy operating mechanism

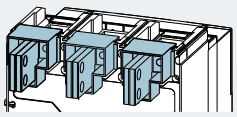
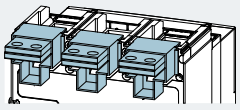
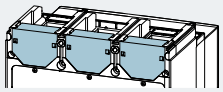
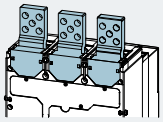
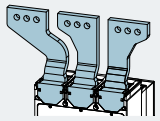
Note: Always with S24, RTC, AUX 4 CO signaling and auxiliary switches

	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cu} 85 kA at 415 V, breaking capacity H (H)	PU (UNIT, SET, M)	PS	PG
			Article No. www.siemens.com/product?Article No.	Basic price per PU		
	A	d				
Rear vertical connection						
						
Neutral left	800		**3VA2780-2□□11-□□□□**	1	1 unit	1CB
	1000		**3VA2710-2□□11-□□□□**	1	1 unit	1CB
	1250		**3VA2712-2□□11-□□□□**	1	1 unit	1CB
	1600		**3VA2716-2□□11-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-2□□21-□□□□**	1	1 unit	1CB
	1000		**3VA2710-2□□21-□□□□**	1	1 unit	1CB
	1250		**3VA2712-2□□21-□□□□**	1	1 unit	1CB
	1600		**3VA2716-2□□21-□□□□**	1	1 unit	1CB
Rear horizontal connection						
						
Neutral left	800		**3VA2780-2□□12-□□□□**	1	1 unit	1CB
	1000		**3VA2710-2□□12-□□□□**	1	1 unit	1CB
	1250		**3VA2712-2□□12-□□□□**	1	1 unit	1CB
	1600		**3VA2716-2□□12-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-2□□22-□□□□**	1	1 unit	1CB
	1000		**3VA2710-2□□22-□□□□**	1	1 unit	1CB
	1250		**3VA2712-2□□22-□□□□**	1	1 unit	1CB
	1600		**3VA2716-2□□22-□□□□**	1	1 unit	1CB
Front terminal for main circuit connection						
						
Neutral left	800		**3VA2780-2□□13-□□□□**	1	1 unit	1CB
	1000		**3VA2710-2□□13-□□□□**	1	1 unit	1CB
	1250		**3VA2712-2□□13-□□□□**	1	1 unit	1CB
	1600		**3VA2716-2□□13-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-2□□23-□□□□**	1	1 unit	1CB
	1000		**3VA2710-2□□23-□□□□**	1	1 unit	1CB
	1250		**3VA2712-2□□23-□□□□**	1	1 unit	1CB
	1600		**3VA2716-2□□23-□□□□**	1	1 unit	1CB
Front straight bus connectors extended						
						
Neutral left	800		**3VA2780-2□□15-□□□□**	1	1 unit	1CB
	1000		**3VA2710-2□□15-□□□□**	1	1 unit	1CB
	1250		**3VA2712-2□□15-□□□□**	1	1 unit	1CB
	1600		**3VA2716-2□□15-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-2□□25-□□□□**	1	1 unit	1CB
	1000		**3VA2710-2□□25-□□□□**	1	1 unit	1CB
	1250		**3VA2712-2□□25-□□□□**	1	1 unit	1CB
	1600		**3VA2716-2□□25-□□□□**	1	1 unit	1CB
Broadened bus connectors						
						
Neutral left	800		**3VA2780-2□□16-□□□□**	1	1 unit	1CB
	1000		**3VA2710-2□□16-□□□□**	1	1 unit	1CB
	1250		**3VA2712-2□□16-□□□□**	1	1 unit	1CB
	1600		**3VA2716-2□□16-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-2□□26-□□□□**	1	1 unit	1CB
	1000		**3VA2710-2□□26-□□□□**	1	1 unit	1CB
	1250		**3VA2712-2□□26-□□□□**	1	1 unit	1CB
	1600		**3VA2716-2□□26-□□□□**	1	1 unit	1CB

Versions								Additional price
ETUs 3-series – Communications interface and metering function not possible								
with ETU320 (LI)	**A**	**B**						✓
with ETU350 (LSI)	**A**	**C**						✓
with ETU360 (LSIG)	**A**	**D**						✓
ETUs 6-series – Expandable with communications interface and metering function								
with ETU650 (LSI)		**E**						✓
with ETU660 (LSIG)		**F**						✓
Without communications interface, without metering function	**A**							**None**
With communications interface, without metering function	**B**							✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**							✓
With communications interface, with Basic metering function (voltage tap at top)	**D**							✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**							✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**							✓

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

© Siemens 2019

Note: Always with S24, RTC, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cu} 110 kA at 415 V, breaking capacity C (C)	PU (UNIT, SET, M)	PS	PG
			Article No. www.siemens.com/product?Article No. / Basic price per PU			
	A	d				
Rear vertical connection						
						
Neutral left	800		**3VA2780-3□□11-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□11-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□11-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□11-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-3□□21-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□21-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□21-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□21-□□□□**	1	1 unit	1CB
Rear horizontal connection						
						
Neutral left	800		**3VA2780-3□□12-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□12-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□12-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□12-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-3□□22-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□22-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□22-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□22-□□□□**	1	1 unit	1CB
Front terminal for main circuit connection						
						
Neutral left	800		**3VA2780-3□□13-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□13-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□13-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□13-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-3□□23-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□23-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□23-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□23-□□□□**	1	1 unit	1CB
Front straight bus connectors extended						
						
Neutral left	800		**3VA2780-3□□15-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□15-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□15-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□15-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-3□□25-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□25-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□25-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□25-□□□□**	1	1 unit	1CB
Broadened bus connectors						
						
Neutral left	800		**3VA2780-3□□16-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□16-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□16-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□16-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-3□□26-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□26-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□26-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□26-□□□□**	1	1 unit	1CB

Versions			Additional price
ETUs 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	**A**	**B**	✓
with ETU350 (LSI)	**A**	**C**	✓
with ETU360 (LSIG)	**A**	**D**	✓
ETUs 6-series – Expandable with communications interface and metering function			
with ETU650 (LSI)		**E**	✓
with ETU660 (LSIG)		**F**	✓
Without communications interface, without metering function	**A**		**None**
With communications interface, without metering function	**B**		✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**		✓
With communications interface, with Basic metering function (voltage tap at top)	**D**		✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**		✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**		✓

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

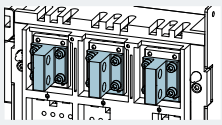
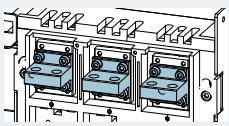
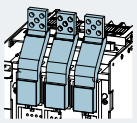
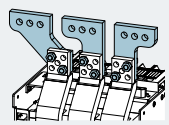
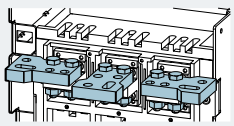
© Siemens 2019

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers NEW

4-pole, withdrawable versions with toggle

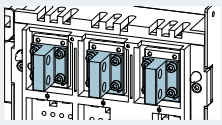
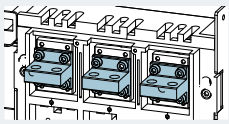
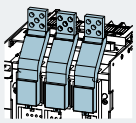
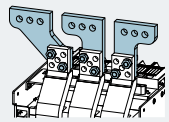
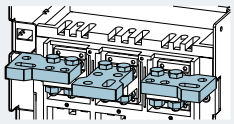
Note: Always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches

	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cu} 55 kA at 415 V, breaking capacity M (M)	PU (UNIT, SET, M)	PS	PG
			Article No. www.siemens.com/product?Article No.	Basic price per PU		
	A	d				
Withdrawable breaker version without guide frame						
Neutral left	800		3VA2780-5□□40-□□□□	1	1 unit	1CB
	1000		3VA2710-5□□40-□□□□	1	1 unit	1CB
	1250		3VA2712-5□□40-□□□□	1	1 unit	1CB
	1600		3VA2716-5□□40-□□□□	1	1 unit	1CB
Neutral right	800		3VA2780-5□□50-□□□□	1	1 unit	1CB
	1000		3VA2710-5□□50-□□□□	1	1 unit	1CB
	1250		3VA2712-5□□50-□□□□	1	1 unit	1CB
	1600		3VA2716-5□□50-□□□□	1	1 unit	1CB
With guide frame, rear vertical connection						
 Neutral left	800		3VA2780-5□□41-□□□□	1	1 unit	1CB
	1000		3VA2710-5□□41-□□□□	1	1 unit	1CB
	1250		3VA2712-5□□41-□□□□	1	1 unit	1CB
	1600		3VA2716-5□□41-□□□□	1	1 unit	1CB
Neutral right	800		3VA2780-5□□51-□□□□	1	1 unit	1CB
	1000		3VA2710-5□□51-□□□□	1	1 unit	1CB
	1250		3VA2712-5□□51-□□□□	1	1 unit	1CB
	1600		3VA2716-5□□51-□□□□	1	1 unit	1CB
With guide frame, rear horizontal connection						
 Neutral left	800		3VA2780-5□□42-□□□□	1	1 unit	1CB
	1000		3VA2710-5□□42-□□□□	1	1 unit	1CB
	1250		3VA2712-5□□42-□□□□	1	1 unit	1CB
	1600		3VA2716-5□□42-□□□□	1	1 unit	1CB
Neutral right	800		3VA2780-5□□52-□□□□	1	1 unit	1CB
	1000		3VA2710-5□□52-□□□□	1	1 unit	1CB
	1250		3VA2712-5□□52-□□□□	1	1 unit	1CB
	1600		3VA2716-5□□52-□□□□	1	1 unit	1CB
With guide frame, front straight bus connectors extended						
 Neutral left	800		3VA2780-5□□45-□□□□	1	1 unit	1CB
	1000		3VA2710-5□□45-□□□□	1	1 unit	1CB
	1250		3VA2712-5□□45-□□□□	1	1 unit	1CB
	1600		3VA2716-5□□45-□□□□	1	1 unit	1CB
Neutral right	800		3VA2780-5□□55-□□□□	1	1 unit	1CB
	1000		3VA2710-5□□55-□□□□	1	1 unit	1CB
	1250		3VA2712-5□□55-□□□□	1	1 unit	1CB
	1600		3VA2716-5□□55-□□□□	1	1 unit	1CB
With guide frame, broadened bus connectors						
 Neutral left	800		3VA2780-5□□46-□□□□	1	1 unit	1CB
	1000		3VA2710-5□□46-□□□□	1	1 unit	1CB
	1250		3VA2712-5□□46-□□□□	1	1 unit	1CB
	1600		3VA2716-5□□46-□□□□	1	1 unit	1CB
Neutral right	800		3VA2780-5□□56-□□□□	1	1 unit	1CB
	1000		3VA2710-5□□56-□□□□	1	1 unit	1CB
	1250		3VA2712-5□□56-□□□□	1	1 unit	1CB
	1600		3VA2716-5□□56-□□□□	1	1 unit	1CB
With guide frame, rear broadened bus connectors						
 Neutral left	800		3VA2780-5□□47-□□□□	1	1 unit	1CB
	1000		3VA2710-5□□47-□□□□	1	1 unit	1CB
	1250		3VA2712-5□□47-□□□□	1	1 unit	1CB
	1600		3VA2716-5□□47-□□□□	1	1 unit	1CB
Neutral right	800		3VA2780-5□□57-□□□□	1	1 unit	1CB
	1000		3VA2710-5□□57-□□□□	1	1 unit	1CB
	1250		3VA2712-5□□57-□□□□	1	1 unit	1CB
	1600		3VA2716-5□□57-□□□□	1	1 unit	1CB

Versions			Additional price
ETUs 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	**A**	**B**	✓
with ETU350 (LSI)	**A**	**C**	✓
with ETU360 (LSIG)	**A**	**D**	✓
ETUs 6-series – Expandable with communications interface and metering function			
with ETU650 (LSI)		**E**	✓
with ETU660 (LSIG)		**F**	✓
Without communications interface, without metering function	**A**		**None**
With communications interface, without metering function	**B**		✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**		✓
With communications interface, with Basic metering function (voltage tap at top)	**D**		✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**		✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**		✓

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

© Siemens 2019

Note: Always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n\,max}$ A	SD d	I_{cu} 85 kA at 415 V, breaking capacity H (H) — Article No. www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
Withdrawable breaker version without guide frame							
Neutral left	800		**3VA2780-6□□40-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□40-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□40-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□40-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-6□□50-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□50-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□50-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□50-□□□□**		1	1 unit	1CB
With guide frame, rear vertical connection							
 Neutral left	800		**3VA2780-6□□41-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□41-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□41-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□41-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-6□□51-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□51-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□51-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□51-□□□□**		1	1 unit	1CB
With guide frame, rear horizontal connection							
 Neutral left	800		**3VA2780-6□□42-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□42-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□42-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□42-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-6□□52-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□52-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□52-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□52-□□□□**		1	1 unit	1CB
With guide frame, front straight bus connectors extended							
 Neutral left	800		**3VA2780-6□□45-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□45-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□45-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□45-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-6□□55-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□55-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□55-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□55-□□□□**		1	1 unit	1CB
With guide frame, broadened bus connectors							
 Neutral left	800		**3VA2780-6□□46-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□46-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□46-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□46-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-6□□56-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□56-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□56-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□56-□□□□**		1	1 unit	1CB
With guide frame, rear broadened bus connectors							
 Neutral left	800		**3VA2780-6□□47-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□47-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□47-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□47-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-6□□57-□□□□**		1	1 unit	1CB
	1000		**3VA2710-6□□57-□□□□**		1	1 unit	1CB
	1250		**3VA2712-6□□57-□□□□**		1	1 unit	1CB
	1600		**3VA2716-6□□57-□□□□**		1	1 unit	1CB

Versions					Additional price
ETUs 3-series – Communications interface and metering function not possible					
with ETU320 (LI)	**A**	**B**			✓
with ETU350 (LSI)	**A**	**C**			✓
with ETU360 (LSIG)	**A**	**D**			✓
ETUs 6-series – Expandable with communications interface and metering function					
with ETU650 (LSI)		**E**			✓
with ETU660 (LSIG)		**F**			✓
Without communications interface, without metering function	**A**				**None**
With communications interface, without metering function	**B**				✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**				✓
With communications interface, with Basic metering function (voltage tap at top)	**D**				✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**				✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**				✓

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

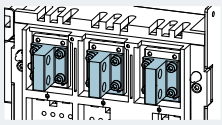
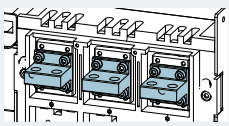
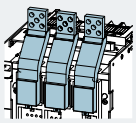
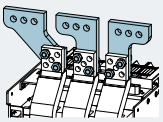
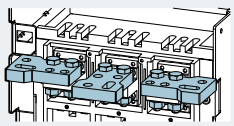
© Siemens 2019

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers NEW

4-pole, withdrawable versions with toggle

Note: Always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches

	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cu} 110 kA at 415 V, breaking capacity C (C)	PU (UNIT, SET, M)	PS	PG
			Article No. www.siemens.com/product?Article No.		Basic price per PU	
	A	d				
Withdrawable breaker version without guide frame						
Neutral left	800		3VA2780-7□□40-□□□□	1	1 unit	1CB
	1000		3VA2710-7□□40-□□□□	1	1 unit	1CB
	1250		3VA2712-7□□40-□□□□	1	1 unit	1CB
	1600		3VA2716-7□□40-□□□□	1	1 unit	1CB
Neutral right	800		3VA2780-7□□50-□□□□	1	1 unit	1CB
	1000		3VA2710-7□□50-□□□□	1	1 unit	1CB
	1250		3VA2712-7□□50-□□□□	1	1 unit	1CB
	1600		3VA2716-7□□50-□□□□	1	1 unit	1CB
With guide frame, rear vertical connection						
 Neutral left	800		3VA2780-7□□41-□□□□	1	1 unit	1CB
	1000		3VA2710-7□□41-□□□□	1	1 unit	1CB
	1250		3VA2712-7□□41-□□□□	1	1 unit	1CB
	1600		3VA2716-7□□41-□□□□	1	1 unit	1CB
Neutral right	800		3VA2780-7□□51-□□□□	1	1 unit	1CB
	1000		3VA2710-7□□51-□□□□	1	1 unit	1CB
	1250		3VA2712-7□□51-□□□□	1	1 unit	1CB
	1600		3VA2716-7□□51-□□□□	1	1 unit	1CB
With guide frame, rear horizontal connection						
 Neutral left	800		3VA2780-7□□42-□□□□	1	1 unit	1CB
	1000		3VA2710-7□□42-□□□□	1	1 unit	1CB
	1250		3VA2712-7□□42-□□□□	1	1 unit	1CB
	1600		3VA2716-7□□42-□□□□	1	1 unit	1CB
Neutral right	800		3VA2780-7□□52-□□□□	1	1 unit	1CB
	1000		3VA2710-7□□52-□□□□	1	1 unit	1CB
	1250		3VA2712-7□□52-□□□□	1	1 unit	1CB
	1600		3VA2716-7□□52-□□□□	1	1 unit	1CB
With guide frame, front straight bus connectors extended						
 Neutral left	800		3VA2780-7□□45-□□□□	1	1 unit	1CB
	1000		3VA2710-7□□45-□□□□	1	1 unit	1CB
	1250		3VA2712-7□□45-□□□□	1	1 unit	1CB
	1600		3VA2716-7□□45-□□□□	1	1 unit	1CB
Neutral right	800		3VA2780-7□□55-□□□□	1	1 unit	1CB
	1000		3VA2710-7□□55-□□□□	1	1 unit	1CB
	1250		3VA2712-7□□55-□□□□	1	1 unit	1CB
	1600		3VA2716-7□□55-□□□□	1	1 unit	1CB
With guide frame, broadened bus connectors						
 Neutral left	800		3VA2780-7□□46-□□□□	1	1 unit	1CB
	1000		3VA2710-7□□46-□□□□	1	1 unit	1CB
	1250		3VA2712-7□□46-□□□□	1	1 unit	1CB
	1600		3VA2716-7□□46-□□□□	1	1 unit	1CB
Neutral right	800		3VA2780-7□□56-□□□□	1	1 unit	1CB
	1000		3VA2710-7□□56-□□□□	1	1 unit	1CB
	1250		3VA2712-7□□56-□□□□	1	1 unit	1CB
	1600		3VA2716-7□□56-□□□□	1	1 unit	1CB
With guide frame, rear broadened bus connectors						
 Neutral left	800		3VA2780-7□□47-□□□□	1	1 unit	1CB
	1000		3VA2710-7□□47-□□□□	1	1 unit	1CB
	1250		3VA2712-7□□47-□□□□	1	1 unit	1CB
	1600		3VA2716-7□□47-□□□□	1	1 unit	1CB
Neutral right	800		3VA2780-7□□57-□□□□	1	1 unit	1CB
	1000		3VA2710-7□□57-□□□□	1	1 unit	1CB
	1250		3VA2712-7□□57-□□□□	1	1 unit	1CB
	1600		3VA2716-7□□57-□□□□	1	1 unit	1CB

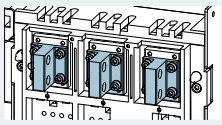
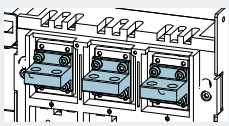
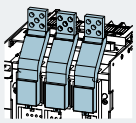
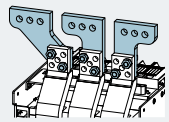
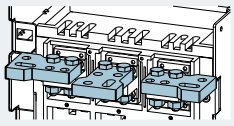
Versions			Additional price
ETUs 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	**A**	**B**	✓
with ETU350 (LSI)	**A**	**C**	✓
with ETU360 (LSIG)	**A**	**D**	✓
ETUs 6-series – Expandable with communications interface and metering function			
with ETU650 (LSI)		**E**	✓
with ETU660 (LSIG)		**F**	✓
Without communications interface, without metering function	**A**		**None**
With communications interface, without metering function	**B**		✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**		✓
With communications interface, with Basic metering function (voltage tap at top)	**D**		✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**		✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**		✓

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

© Siemens 2019

4-pole, withdrawable versions with stored energy operating mechanism

Note: Always with S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary swiches

	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cu} 55 kA at 415 V, breaking capacity M (M) Article No. www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	d					
Withdrawable breaker version without guide frame							
Neutral left	800		3VA2780-1□□40-□□□□		1	1 unit	1CB
	1000		3VA2710-1□□40-□□□□		1	1 unit	1CB
	1250		3VA2712-1□□40-□□□□		1	1 unit	1CB
	1600		3VA2716-1□□40-□□□□		1	1 unit	1CB
Neutral right	800		3VA2780-1□□50-□□□□		1	1 unit	1CB
	1000		3VA2710-1□□50-□□□□		1	1 unit	1CB
	1250		3VA2712-1□□50-□□□□		1	1 unit	1CB
	1600		3VA2716-1□□50-□□□□		1	1 unit	1CB
With guide frame, rear vertical connection							
 Neutral left	800		3VA2780-1□□41-□□□□		1	1 unit	1CB
	1000		3VA2710-1□□41-□□□□		1	1 unit	1CB
	1250		3VA2712-1□□41-□□□□		1	1 unit	1CB
	1600		3VA2716-1□□41-□□□□		1	1 unit	1CB
Neutral right	800		3VA2780-1□□51-□□□□		1	1 unit	1CB
	1000		3VA2710-1□□51-□□□□		1	1 unit	1CB
	1250		3VA2712-1□□51-□□□□		1	1 unit	1CB
	1600		3VA2716-1□□51-□□□□		1	1 unit	1CB
With guide frame, rear horizontal connection							
 Neutral left	800		3VA2780-1□□42-□□□□		1	1 unit	1CB
	1000		3VA2710-1□□42-□□□□		1	1 unit	1CB
	1250		3VA2712-1□□42-□□□□		1	1 unit	1CB
	1600		3VA2716-1□□42-□□□□		1	1 unit	1CB
Neutral right	800		3VA2780-1□□52-□□□□		1	1 unit	1CB
	1000		3VA2710-1□□52-□□□□		1	1 unit	1CB
	1250		3VA2712-1□□52-□□□□		1	1 unit	1CB
	1600		3VA2716-1□□52-□□□□		1	1 unit	1CB
With guide frame, front straight bus connectors extended							
 Neutral left	800		3VA2780-1□□45-□□□□		1	1 unit	1CB
	1000		3VA2710-1□□45-□□□□		1	1 unit	1CB
	1250		3VA2712-1□□45-□□□□		1	1 unit	1CB
	1600		3VA2716-1□□45-□□□□		1	1 unit	1CB
Neutral right	800		3VA2780-1□□55-□□□□		1	1 unit	1CB
	1000		3VA2710-1□□55-□□□□		1	1 unit	1CB
	1250		3VA2712-1□□55-□□□□		1	1 unit	1CB
	1600		3VA2716-1□□55-□□□□		1	1 unit	1CB
With guide frame, broadened bus connectors							
 Neutral left	800		3VA2780-1□□46-□□□□		1	1 unit	1CB
	1000		3VA2710-1□□46-□□□□		1	1 unit	1CB
	1250		3VA2712-1□□46-□□□□		1	1 unit	1CB
	1600		3VA2716-1□□46-□□□□		1	1 unit	1CB
Neutral right	800		3VA2780-1□□56-□□□□		1	1 unit	1CB
	1000		3VA2710-1□□56-□□□□		1	1 unit	1CB
	1250		3VA2712-1□□56-□□□□		1	1 unit	1CB
	1600		3VA2716-1□□56-□□□□		1	1 unit	1CB
With guide frame, rear broadened bus connectors							
 Neutral left	800		3VA2780-1□□47-□□□□		1	1 unit	1CB
	1000		3VA2710-1□□47-□□□□		1	1 unit	1CB
	1250		3VA2712-1□□47-□□□□		1	1 unit	1CB
	1600		3VA2716-1□□47-□□□□		1	1 unit	1CB
Neutral right	800		3VA2780-1□□57-□□□□		1	1 unit	1CB
	1000		3VA2710-1□□57-□□□□		1	1 unit	1CB
	1250		3VA2712-1□□57-□□□□		1	1 unit	1CB
	1600		3VA2716-1□□57-□□□□		1	1 unit	1CB

Versions					Additional price
ETUs 3-series – Communications interface and metering function not possible					
with ETU320 (LI)	**A**	**B**			✓
with ETU350 (LSI)	**A**	**C**			✓
with ETU360 (LSIG)	**A**	**D**			✓
ETUs 6-series – Expandable with communications interface and metering function					
with ETU650 (LSI)		**E**			✓
with ETU660 (LSIG)		**F**			✓
Without communications interface, without metering function	**A**				**None**
With communications interface, without metering function	**B**				✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**				✓
With communications interface, with Basic metering function (voltage tap at top)	**D**				✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**				✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**				✓

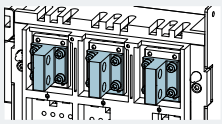
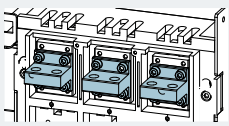
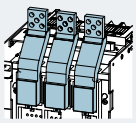
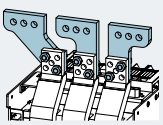
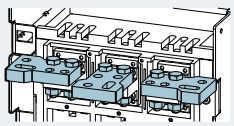
Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers NEW

4-pole, withdrawable versions with stored energy operating mechanism

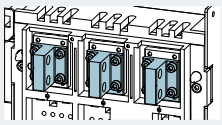
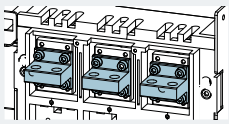
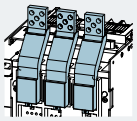
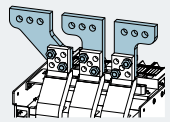
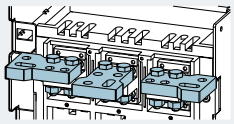
Note: Always with S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cu} 85 kA at 415 V, breaking capacity H (H)		PU (UNIT, SET, M)	PS	PG
			Article No. www.siemens.com/product?Article No.	Basic price per PU			
	A	d					
Withdrawable breaker version without guide frame							
Neutral left	800		**3VA2780-2□□40-□□□□**		1	1 unit	1CB
	1000		**3VA2710-2□□40-□□□□**		1	1 unit	1CB
	1250		**3VA2712-2□□40-□□□□**		1	1 unit	1CB
	1600		**3VA2716-2□□40-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-2□□50-□□□□**		1	1 unit	1CB
	1000		**3VA2710-2□□50-□□□□**		1	1 unit	1CB
	1250		**3VA2712-2□□50-□□□□**		1	1 unit	1CB
	1600		**3VA2716-2□□50-□□□□**		1	1 unit	1CB
With guide frame, rear vertical connection							
 Neutral left	800		**3VA2780-2□□41-□□□□**		1	1 unit	1CB
	1000		**3VA2710-2□□41-□□□□**		1	1 unit	1CB
	1250		**3VA2712-2□□41-□□□□**		1	1 unit	1CB
	1600		**3VA2716-2□□41-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-2□□51-□□□□**		1	1 unit	1CB
	1000		**3VA2710-2□□51-□□□□**		1	1 unit	1CB
	1250		**3VA2712-2□□51-□□□□**		1	1 unit	1CB
	1600		**3VA2716-2□□51-□□□□**		1	1 unit	1CB
With guide frame, rear horizontal connection							
 Neutral left	800		**3VA2780-2□□42-□□□□**		1	1 unit	1CB
	1000		**3VA2710-2□□42-□□□□**		1	1 unit	1CB
	1250		**3VA2712-2□□42-□□□□**		1	1 unit	1CB
	1600		**3VA2716-2□□42-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-2□□52-□□□□**		1	1 unit	1CB
	1000		**3VA2710-2□□52-□□□□**		1	1 unit	1CB
	1250		**3VA2712-2□□52-□□□□**		1	1 unit	1CB
	1600		**3VA2716-2□□52-□□□□**		1	1 unit	1CB
With guide frame, front straight bus connectors extended							
 Neutral left	800		**3VA2780-2□□45-□□□□**		1	1 unit	1CB
	1000		**3VA2710-2□□45-□□□□**		1	1 unit	1CB
	1250		**3VA2712-2□□45-□□□□**		1	1 unit	1CB
	1600		**3VA2716-2□□45-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-2□□55-□□□□**		1	1 unit	1CB
	1000		**3VA2710-2□□55-□□□□**		1	1 unit	1CB
	1250		**3VA2712-2□□55-□□□□**		1	1 unit	1CB
	1600		**3VA2716-2□□55-□□□□**		1	1 unit	1CB
With guide frame, broadened bus connectors							
 Neutral left	800		**3VA2780-2□□46-□□□□**		1	1 unit	1CB
	1000		**3VA2710-2□□46-□□□□**		1	1 unit	1CB
	1250		**3VA2712-2□□46-□□□□**		1	1 unit	1CB
	1600		**3VA2716-2□□46-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-2□□56-□□□□**		1	1 unit	1CB
	1000		**3VA2710-2□□56-□□□□**		1	1 unit	1CB
	1250		**3VA2712-2□□56-□□□□**		1	1 unit	1CB
	1600		**3VA2716-2□□56-□□□□**		1	1 unit	1CB
With guide frame, rear broadened bus connectors							
 Neutral left	800		**3VA2780-2□□47-□□□□**		1	1 unit	1CB
	1000		**3VA2710-2□□47-□□□□**		1	1 unit	1CB
	1250		**3VA2712-2□□47-□□□□**		1	1 unit	1CB
	1600		**3VA2716-2□□47-□□□□**		1	1 unit	1CB
Neutral right	800		**3VA2780-2□□57-□□□□**		1	1 unit	1CB
	1000		**3VA2710-2□□57-□□□□**		1	1 unit	1CB
	1250		**3VA2712-2□□57-□□□□**		1	1 unit	1CB
	1600		**3VA2716-2□□57-□□□□**		1	1 unit	1CB

Versions			Additional price
ETUs 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	**A**	**B**	✓
with ETU350 (LSI)	**A**	**C**	✓
with ETU360 (LSIG)	**A**	**D**	✓
ETUs 6-series – Expandable with communications interface and metering function			
with ETU650 (LSI)		**E**	✓
with ETU660 (LSIG)		**F**	✓
Without communications interface, without metering function	**A**		**None**
With communications interface, without metering function	**B**		✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**		✓
With communications interface, with Basic metering function (voltage tap at top)	**D**		✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**		✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**		✓

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

© Siemens 2019

Note:
Always with S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches

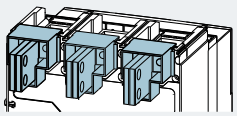
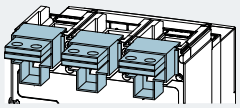
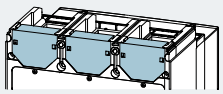
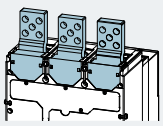
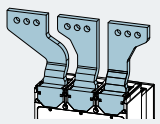
	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cu} 110 kA at 415 V, breaking capacity C (C)	PU (UNIT, SET, M)	PS	PG
			Article No. www.siemens.com/product?Article No.		Basic price per PU	
	A	d				
Withdrawable breaker version without guide frame						
Neutral left	800		**3VA2780-3□□40-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□40-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□40-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□40-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-3□□50-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□50-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□50-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□50-□□□□**	1	1 unit	1CB
With guide frame, rear vertical connection						
 Neutral left	800		**3VA2780-3□□41-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□41-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□41-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□41-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-3□□51-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□51-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□51-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□51-□□□□**	1	1 unit	1CB
With guide frame, rear horizontal connection						
 Neutral left	800		**3VA2780-3□□42-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□42-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□42-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□42-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-3□□52-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□52-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□52-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□52-□□□□**	1	1 unit	1CB
With guide frame, front straight bus connectors extended						
 Neutral left	800		**3VA2780-3□□45-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□45-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□45-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□45-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-3□□55-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□55-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□55-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□55-□□□□**	1	1 unit	1CB
With guide frame, broadened bus connectors						
 Neutral left	800		**3VA2780-3□□46-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□46-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□46-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□46-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-3□□56-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□56-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□56-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□56-□□□□**	1	1 unit	1CB
With guide frame, rear broadened bus connectors						
 Neutral left	800		**3VA2780-3□□47-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□47-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□47-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□47-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-3□□57-□□□□**	1	1 unit	1CB
	1000		**3VA2710-3□□57-□□□□**	1	1 unit	1CB
	1250		**3VA2712-3□□57-□□□□**	1	1 unit	1CB
	1600		**3VA2716-3□□57-□□□□**	1	1 unit	1CB

Versions			Additional price
ETUs 3-series – Communications interface and metering function not possible			
with ETU320 (LI)	**A**	**B**	✓
with ETU350 (LSI)	**A**	**C**	✓
with ETU360 (LSIG)	**A**	**D**	✓
ETUs 6-series – Expandable with communications interface and metering function			
with ETU650 (LSI)		**E**	✓
with ETU660 (LSIG)		**F**	✓
Without communications interface, without metering function	**A**		**None**
With communications interface, without metering function	**B**		✓
With communications interface, with Basic metering function (voltage tap at bottom)	**C**		✓
With communications interface, with Basic metering function (voltage tap at top)	**D**		✓
With communications interface, with Advanced metering function (voltage tap at bottom)	**E**		✓
With communications interface, with Advanced metering function (voltage tap at top)	**F**		✓

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

© Siemens 2019

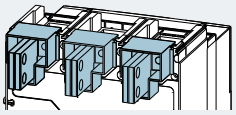
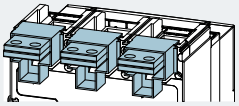
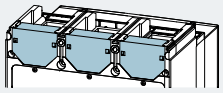
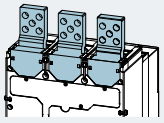
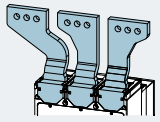
Selection and ordering data

Note: Always with AUX 4 CO auxiliary contacts	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cc} 20 kA at 415 V, breaking capacity M (M)		PU (UNIT, SET, M)	PS	PG
			Article No. www.siemens.com/product?Article No.	Basic price per PU			
	A	d					
Rear vertical connection							
	800		**3VA2780-5AA01-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5AA01-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5AA01-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5AA01-□□□□**		1	1 unit	1CB
Rear horizontal connection							
	800		**3VA2780-5AA02-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5AA02-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5AA02-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5AA02-□□□□**		1	1 unit	1CB
Front terminal for main circuit connection							
	800		**3VA2780-5AA03-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5AA03-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5AA03-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5AA03-□□□□**		1	1 unit	1CB
Straight bus connectors extended							
	800		**3VA2780-5AA05-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5AA05-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5AA05-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5AA05-□□□□**		1	1 unit	1CB
Broadened bus connectors							
	800		**3VA2780-5AA06-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5AA06-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5AA06-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5AA06-□□□□**		1	1 unit	1CB

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

© Siemens 2019

3-pole, fixed-mounted non-automatic air circuit breakers with stored energy operating mechanism

Note: Always with AUX 4 CO auxiliary contacts	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cc} 20 kA at 415 V, breaking capacity M (M)	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/product?Article No. — Basic price per PU			
Rear vertical connection						
	800		**3VA2780-1AA01-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA01-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA01-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA01-□□□□**	1	1 unit	1CB
Rear horizontal connection						
	800		**3VA2780-1AA02-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA02-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA02-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA02-□□□□**	1	1 unit	1CB
Front terminal for main circuit connection						
	800		**3VA2780-1AA03-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA03-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA03-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA03-□□□□**	1	1 unit	1CB
Straight bus connectors extended						
	800		**3VA2780-1AA05-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA05-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA05-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA05-□□□□**	1	1 unit	1CB
Broadened bus connectors						
	800		**3VA2780-1AA06-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA06-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA06-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA06-□□□□**	1	1 unit	1CB

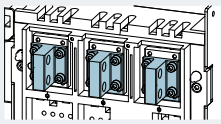
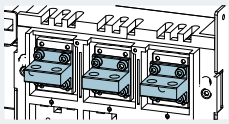
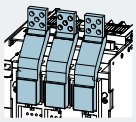
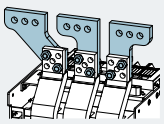
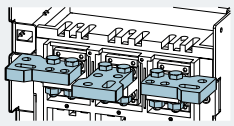
Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers NEW

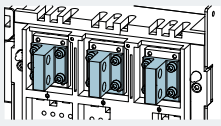
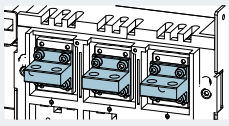
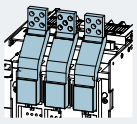
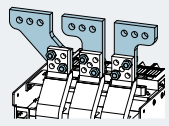
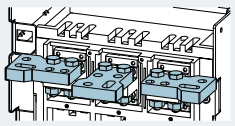
3-pole, fixed-mounted non-automatic air circuit breakers with toggle

Note: Always with AUX 4 CO auxiliary contacts and PSS signaling switches (in frame)	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cc} 20 kA at 415 V, breaking capacity M (M)		PU (UNIT, SET, M)	PS	PG
			Article No. www.siemens.com/product?Article No.	Basic price per PU			
	A	d					
Withdrawable breaker version without guide frame							
	800		**3VA2780-5AA30-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5AA30-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5AA30-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5AA30-□□□□**		1	1 unit	1CB
With guide frame, rear vertical connection							
	800		**3VA2780-5AA31-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5AA31-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5AA31-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5AA31-□□□□**		1	1 unit	1CB
With guide frame, rear horizontal connection							
	800		**3VA2780-5AA32-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5AA32-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5AA32-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5AA32-□□□□**		1	1 unit	1CB
With guide frame, front straight bus connectors extended							
	800		**3VA2780-5AA35-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5AA35-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5AA35-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5AA35-□□□□**		1	1 unit	1CB
With guide frame, broadened bus connectors							
	800		**3VA2780-5AA36-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5AA36-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5AA36-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5AA36-□□□□**		1	1 unit	1CB
With guide frame, rear broadened bus connectors							
	800		**3VA2780-5AA37-□□□□**		1	1 unit	1CB
	1000		**3VA2710-5AA37-□□□□**		1	1 unit	1CB
	1250		**3VA2712-5AA37-□□□□**		1	1 unit	1CB
	1600		**3VA2716-5AA37-□□□□**		1	1 unit	1CB

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

© Siemens 2019

3-pole, withdrawable non-automatic air circuit breakers with stored energy operating mechanism

Note: Always with AUX 4 CO auxiliary contacts and PSS signaling switches (in frame)	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cc} 20 kA at 415 V, breaking capacity M (M)	PU (UNIT, SET, M)	PS	PG
	A	d	Article No. www.siemens.com/product?Article No. / Basic price per PU			
Withdrawable breaker version without guide frame						
	800		**3VA2780-1AA30-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA30-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA30-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA30-□□□□**	1	1 unit	1CB
With guide frame, rear vertical connection						
	800		**3VA2780-1AA31-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA31-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA31-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA31-□□□□**	1	1 unit	1CB
With guide frame, rear horizontal connection						
	800		**3VA2780-1AA32-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA32-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA32-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA32-□□□□**	1	1 unit	1CB
With guide frame, front straight bus connectors extended						
	800		**3VA2780-1AA35-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA35-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA35-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA35-□□□□**	1	1 unit	1CB
With guide frame, broadened bus connectors						
	800		**3VA2780-1AA36-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA36-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA36-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA36-□□□□**	1	1 unit	1CB
With guide frame, rear broadened bus connectors						
	800		**3VA2780-1AA37-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA37-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA37-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA37-□□□□**	1	1 unit	1CB

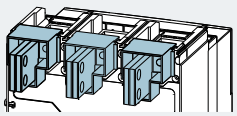
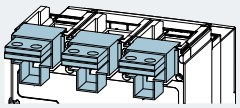
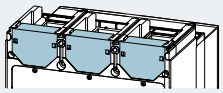
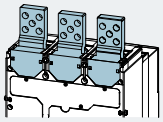
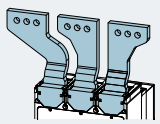
Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers NEW

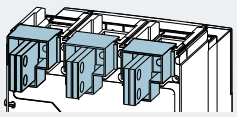
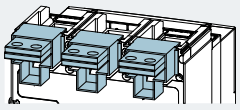
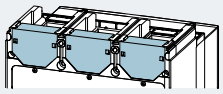
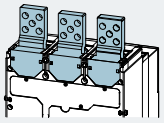
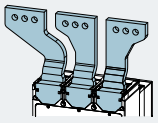
4-pole, fixed-mounted non-automatic air circuit breakers with toggle

Note: Always with AUX 4 CO auxiliary contacts	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cc} 20 kA at 415 V, breaking capacity M (M)	PU (UNIT, SET, M)	PS	PG
			Article No. www.siemens.com/product?Article No.	Basic price per PU		
	A	d				
Rear vertical connection						
	Neutral left	800	**3VA2780-5AA11-□□□□**		1 unit	1CB
		1000	**3VA2710-5AA11-□□□□**		1 unit	1CB
		1250	**3VA2712-5AA11-□□□□**		1 unit	1CB
		1600	**3VA2716-5AA11-□□□□**		1 unit	1CB
	Neutral right	800	**3VA2780-5AA21-□□□□**		1 unit	1CB
		1000	**3VA2710-5AA21-□□□□**		1 unit	1CB
		1250	**3VA2712-5AA21-□□□□**		1 unit	1CB
		1600	**3VA2716-5AA21-□□□□**		1 unit	1CB
Rear horizontal connection						
	Neutral left	800	**3VA2780-5AA12-□□□□**		1 unit	1CB
		1000	**3VA2710-5AA12-□□□□**		1 unit	1CB
		1250	**3VA2712-5AA12-□□□□**		1 unit	1CB
		1600	**3VA2716-5AA12-□□□□**		1 unit	1CB
	Neutral right	800	**3VA2780-5AA22-□□□□**		1 unit	1CB
		1000	**3VA2710-5AA22-□□□□**		1 unit	1CB
		1250	**3VA2712-5AA22-□□□□**		1 unit	1CB
		1600	**3VA2716-5AA22-□□□□**		1 unit	1CB
Front terminal for main circuit connection						
	Neutral left	800	**3VA2780-5AA13-□□□□**		1 unit	1CB
		1000	**3VA2710-5AA13-□□□□**		1 unit	1CB
		1250	**3VA2712-5AA13-□□□□**		1 unit	1CB
		1600	**3VA2716-5AA13-□□□□**		1 unit	1CB
	Neutral right	800	**3VA2780-5AA23-□□□□**		1 unit	1CB
		1000	**3VA2710-5AA23-□□□□**		1 unit	1CB
		1250	**3VA2712-5AA23-□□□□**		1 unit	1CB
		1600	**3VA2716-5AA23-□□□□**		1 unit	1CB
Straight bus connectors extended						
	Neutral left	800	**3VA2780-5AA15-□□□□**		1 unit	1CB
		1000	**3VA2710-5AA15-□□□□**		1 unit	1CB
		1250	**3VA2712-5AA15-□□□□**		1 unit	1CB
		1600	**3VA2716-5AA15-□□□□**		1 unit	1CB
	Neutral right	800	**3VA2780-5AA25-□□□□**		1 unit	1CB
		1000	**3VA2710-5AA25-□□□□**		1 unit	1CB
		1250	**3VA2712-5AA25-□□□□**		1 unit	1CB
		1600	**3VA2716-5AA25-□□□□**		1 unit	1CB
Broadened bus connectors						
	Neutral left	800	**3VA2780-5AA16-□□□□**		1 unit	1CB
		1000	**3VA2710-5AA16-□□□□**		1 unit	1CB
		1250	**3VA2712-5AA16-□□□□**		1 unit	1CB
		1600	**3VA2716-5AA16-□□□□**		1 unit	1CB
	Neutral right	800	**3VA2780-5AA26-□□□□**		1 unit	1CB
		1000	**3VA2710-5AA26-□□□□**		1 unit	1CB
		1250	**3VA2712-5AA26-□□□□**		1 unit	1CB
		1600	**3VA2716-5AA26-□□□□**		1 unit	1CB

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

© Siemens 2019

4-pole, fixed-mounted non-automatic air circuit breakers with stored energy operating mechanism

Note: Always with AUX 4 CO auxiliary contacts	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cc} 20 kA at 415 V, breaking capacity M (M)	PU (UNIT, SET, M)	PS	PG
			Article No. www.siemens.com/product?Article No. — Basic price per PU			
	A	d				
Rear vertical connection						
 Neutral left	800		**3VA2780-1AA11-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA11-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA11-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA11-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-1AA21-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA21-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA21-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA21-□□□□**	1	1 unit	1CB
Rear horizontal connection						
 Neutral left	800		**3VA2780-1AA12-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA12-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA12-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA12-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-1AA22-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA22-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA22-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA22-□□□□**	1	1 unit	1CB
Front terminal for main circuit connection						
 Neutral left	800		**3VA2780-1AA13-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA13-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA13-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA13-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-1AA23-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA23-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA23-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA23-□□□□**	1	1 unit	1CB
Straight bus connectors extended						
 Neutral left	800		**3VA2780-1AA15-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA15-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA15-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA15-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-1AA25-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA25-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA25-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA25-□□□□**	1	1 unit	1CB
Broadened bus connectors						
 Neutral left	800		**3VA2780-1AA16-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA16-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA16-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA16-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-1AA26-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA26-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA26-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA26-□□□□**	1	1 unit	1CB

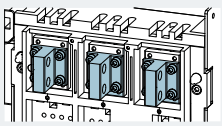
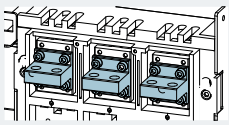
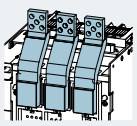
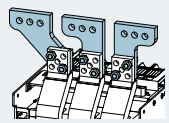
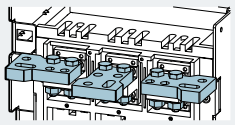
Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers NEW

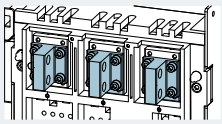
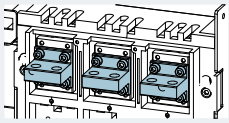
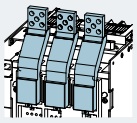
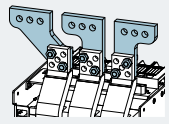
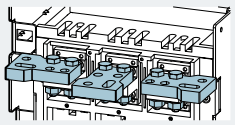
4-pole, withdrawable non-automatic air circuit breakers with toggle

Note: Always with AUX 4 CO auxiliary contacts and PSS signaling switches (in frame)	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cc} 20 kA at 415 V, breaking capacity M (M)	PU (UNIT, SET, M)	PS	PG
			Article No. www.siemens.com/product?Article No. / Basic price per PU			
	A	d				
Withdrawable breaker version without guide frame						
Neutral left	800		**3VA2780-5AA40-□□□□**	1	1 unit	1CB
	1000		**3VA2710-5AA40-□□□□**	1	1 unit	1CB
	1250		**3VA2712-5AA40-□□□□**	1	1 unit	1CB
	1600		**3VA2716-5AA40-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-5AA50-□□□□**	1	1 unit	1CB
	1000		**3VA2710-5AA50-□□□□**	1	1 unit	1CB
	1250		**3VA2712-5AA50-□□□□**	1	1 unit	1CB
	1600		**3VA2716-5AA50-□□□□**	1	1 unit	1CB
With guide frame, rear vertical connection						
						
Neutral left	800		**3VA2780-5AA41-□□□□**	1	1 unit	1CB
	1000		**3VA2710-5AA41-□□□□**	1	1 unit	1CB
	1250		**3VA2712-5AA41-□□□□**	1	1 unit	1CB
	1600		**3VA2716-5AA41-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-5AA51-□□□□**	1	1 unit	1CB
	1000		**3VA2710-5AA51-□□□□**	1	1 unit	1CB
	1250		**3VA2712-5AA51-□□□□**	1	1 unit	1CB
	1600		**3VA2716-5AA51-□□□□**	1	1 unit	1CB
With guide frame, rear horizontal connection						
						
Neutral left	800		**3VA2780-5AA42-□□□□**	1	1 unit	1CB
	1000		**3VA2710-5AA42-□□□□**	1	1 unit	1CB
	1250		**3VA2712-5AA42-□□□□**	1	1 unit	1CB
	1600		**3VA2716-5AA42-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-5AA52-□□□□**	1	1 unit	1CB
	1000		**3VA2710-5AA52-□□□□**	1	1 unit	1CB
	1250		**3VA2712-5AA52-□□□□**	1	1 unit	1CB
	1600		**3VA2716-5AA52-□□□□**	1	1 unit	1CB
With guide frame, front straight bus connectors extended						
						
Neutral left	800		**3VA2780-5AA45-□□□□**	1	1 unit	1CB
	1000		**3VA2710-5AA45-□□□□**	1	1 unit	1CB
	1250		**3VA2712-5AA45-□□□□**	1	1 unit	1CB
	1600		**3VA2716-5AA45-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-5AA55-□□□□**	1	1 unit	1CB
	1000		**3VA2710-5AA55-□□□□**	1	1 unit	1CB
	1250		**3VA2712-5AA55-□□□□**	1	1 unit	1CB
	1600		**3VA2716-5AA55-□□□□**	1	1 unit	1CB
With guide frame, broadened bus connectors						
						
Neutral left	800		**3VA2780-5AA46-□□□□**	1	1 unit	1CB
	1000		**3VA2710-5AA46-□□□□**	1	1 unit	1CB
	1250		**3VA2712-5AA46-□□□□**	1	1 unit	1CB
	1600		**3VA2716-5AA46-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-5AA56-□□□□**	1	1 unit	1CB
	1000		**3VA2710-5AA56-□□□□**	1	1 unit	1CB
	1250		**3VA2712-5AA56-□□□□**	1	1 unit	1CB
	1600		**3VA2716-5AA56-□□□□**	1	1 unit	1CB
With guide frame, rear broadened bus connectors						
						
Neutral left	800		**3VA2780-5AA47-□□□□**	1	1 unit	1CB
	1000		**3VA2710-5AA47-□□□□**	1	1 unit	1CB
	1250		**3VA2712-5AA47-□□□□**	1	1 unit	1CB
	1600		**3VA2716-5AA47-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-5AA57-□□□□**	1	1 unit	1CB
	1000		**3VA2710-5AA57-□□□□**	1	1 unit	1CB
	1250		**3VA2712-5AA57-□□□□**	1	1 unit	1CB
	1600		**3VA2716-5AA57-□□□□**	1	1 unit	1CB

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

© Siemens 2019

4-pole, withdrawable non-automatic air circuit breakers with stored energy operating mechanism

Note: Always with AUX 4 CO auxiliary contacts and PSS signaling switches (in frame)	Max. rated circuit breaker current $I_{n\,max}$	SD	I_{cc} 20 kA at 415 V, breaking capacity M (M)	PU (UNIT, SET, M)	PS	PG
			Article No. www.siemens.com/product?Article No.	Basic price per PU		
	A	d				
Withdrawable breaker version without guide frame						
Neutral left	800		**3VA2780-1AA40-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA40-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA40-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA40-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-1AA50-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA50-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA50-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA50-□□□□**	1	1 unit	1CB
With guide frame, rear vertical connection						
 Neutral left	800		**3VA2780-1AA41-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA41-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA41-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA41-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-1AA51-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA51-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA51-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA51-□□□□**	1	1 unit	1CB
With guide frame, rear horizontal connection						
 Neutral left	800		**3VA2780-1AA42-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA42-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA42-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA42-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-1AA52-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA52-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA52-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA52-□□□□**	1	1 unit	1CB
With guide frame, front straight bus connectors extended						
 Neutral left	800		**3VA2780-1AA45-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA45-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA45-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA45-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-1AA55-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA55-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA55-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA55-□□□□**	1	1 unit	1CB
With guide frame, broadened bus connectors						
 Neutral left	800		**3VA2780-1AA46-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA46-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA46-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA46-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-1AA56-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA56-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA56-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA56-□□□□**	1	1 unit	1CB
With guide frame, rear broadened bus connectors						
 Neutral left	800		**3VA2780-1AA47-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA47-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA47-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA47-□□□□**	1	1 unit	1CB
Neutral right	800		**3VA2780-1AA57-□□□□**	1	1 unit	1CB
	1000		**3VA2710-1AA57-□□□□**	1	1 unit	1CB
	1250		**3VA2712-1AA57-□□□□**	1	1 unit	1CB
	1600		**3VA2716-1AA57-□□□□**	1	1 unit	1CB

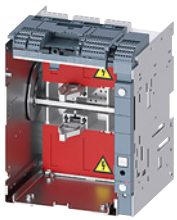
© Siemens 2019

Options

Overview

		Article No. supplement 3VA27..-.....- □□□□	Additional price
Operators only for circuit breakers with stored energy operating mechanism			
Type of operators	U_s V AC/DC		
Without spring charging motor	--	**0**	**None**
With spring charging motor	24 ... 30	**1**	✓
Scope of supply: Spring charging motor and spring charged signaling switch S21. When a spring charging motor is used, a closing coil (CC) and a shunt release (ST) are useful to permit electrical ON/OFF switching.	48 ... 60	**2**	✓
	110	**3**	✓
	230	**4**	✓
Alarm switch combinations only for circuit breakers with toggle operating mechanism			
Without alarm switch		**0**	**None**
With tripped signaling switch TAS and tripped signaling switch S25		**1**	✓
With two leading changeover switches S26		**2**	✓
With tripped signaling switch TAS and tripped signaling switch S25 and two leading changeover switches S26		**3**	✓
Closing coil, remote reset magnet (CC and RR) only for circuit breakers with stored energy operating mechanism			
Type	U_s V AC/DC		
Without closing coil (CC), without remote reset magnet (RR)	--	**A**	**None**
Closing coil (CC)	24	**B**	✓
Recommended when spring charging motor is used.	30	**C**	✓
	48	**D**	✓
	60	**E**	✓
	110 ... 120	**F**	✓
	120 ... 127	**G**	✓
	220 ... 240	**H**	✓
	240 ... 250	**J**	✓
	380 ... 440	**N**	✓
	415 ... 440	**P**	✓
Closing coil (CC) and remote reset magnet (RR) in addition	24	**K**	✓
	110	**L**	✓
	220	**M**	✓

Selection and ordering data

			SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Guide frames for ordering separately without circuit breakers[1)]								
Description	Number of poles	Connection type						
Guide frames without breakers up to 1600 A	3-pole	Rear vertical		**3VW8116-7AA01**		1	1 unit	1CB
		Rear horizontal		**3VW8116-7AB01**		1	1 unit	1CB
		Front straight bus connectors extended		**3VW8116-7AE01**		1	1 unit	1CB
		Broadened bus connectors		**3VW8116-7AF01**		1	1 unit	1CB
		Rear broadened bus connectors		**3VW8116-7AG01**		1	1 unit	1CB
	4-pole	Rear vertical		**3VW8116-7BA01**		1	1 unit	1CB
		Rear horizontal		**3VW8116-7BB01**		1	1 unit	1CB
		Front straight bus connectors extended		**3VW8116-7BE01**		1	1 unit	1CB
		Broadened bus connectors		**3VW8116-7BF01**		1	1 unit	1CB
		Rear broadened bus connectors		**3VW8116-7BG01**		1	1 unit	1CB

[1)] All CB bus modules for communication COM04x / IOM300 / Breaker Connect module, as well as COMPSS signaling switches are configured without frames in the withdrawable breaker and defined there by means of Z options and included with the switching device.
PSS Standard is always included in the frame and can be changed to an electronics-capable signal by means of a Z option.

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

© Siemens 2019

2

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

		Article No. supplement **3VA27..-.....-** □□□□		Additional price
1st auxiliary release, shunt release (ST)				
Type	U_S V AC/DC			
Without 1st auxiliary release	--		**0**	**None**
Shunt release (ST)	24		**1**	✓
	30		**2**	✓
	48		**3**	✓
	60		**4**	✓
	110 ... 120		**5**	✓
	120 ... 127		**6**	✓
	220 ... 240		**7**	✓
	240 ... 250		**8**	✓
2nd auxiliary release: undervoltage release or 2nd shunt release (UVR / ST2)				
Type	U_S V AC/DC			
Without 2nd auxiliary release	--	**A**		**None**
Undervoltage release (UVR)	24	**B**		✓
	30	**C**		✓
	48	**D**		✓
	60	**E**		✓
	110 ... 120	**F**		✓
	120 ... 127	**G**		✓
	220 ... 240	**H**		✓
	240 ... 250	**J**		✓
	380 ... 400	**K**		✓
	415 ... 440	**L**		✓
Undervoltage release (UVR), delayable with external time-delay device Scope of supply: UVR + time-delay device	24 ... 30	**M**		✓
	110 ... 127	**N**		✓
	220 ... 250	**P**		✓
2nd shunt release (ST2)	24	**Q**		✓
	30	**R**		✓
	48	**S**		✓
	60	**T**		✓
	110 ... 120	**U**		✓
	120 ... 127	**V**		✓
	220 ... 240	**W**		✓
	240 ... 250	**X**		✓
	380 ... 400	**Y**		✓

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

© Siemens 2019

Options

2

Add "**-Z**" to the complete Article No. and indicate the appropriate order code(s).			**3VA27..-.....-....-Z** ☐☐☐ **+...+...**	Additional price
Rating plugs				
Type/conditions	For ETU	Rated current I_n		
Only one module is possible per molded case circuit breaker. As standard, the Electronic Trip Units are equipped with a rating plug for setting the rated current I_n, which is equal to the maximum rated circuit breaker current ($I_{n\,max}$). To downrate the circuit breaker, a rated current smaller than $I_{n\,max}$ is selected for the rating plug by means of a Z option. Other functions can also be activated using rating plugs (L = OFF or Rc protection).				
Rating plugs for setting (< $I_{n\,max}$) the rated current I_n	All	400	**B 0 4**	--
		630	**B 0 6**	--
		800	**B 0 8**	--
		1000	**B 1 0**	--
		1250	**B 1 2**	--
Rating plug with overload protection L = OFF and for setting (≤ I_{nmax}) of rated current I_n.	Only for ETUs of the 6-series	400	**L 0 4**	--
		630	**L 0 6**	--
		800	**L 0 8**	--
		1000	**L 1 0**	--
		1250	**L 1 2**	--
		1600	**L 1 6**	--
Rc rating plug for ETU660, for enabling the residual current protection function and for setting (≤ $I_{n\,max}$) of rated current I_n. The residual current function is only possible with the metering function MF Advanced.	For ETU660 only	400	**G 0 4**	--
		630	**G 0 6**	--
		800	**G 0 8**	--
		1250	**G 1 2**	--
CB bus modules - communication modules				
Conditions	Communication module	Protocol		
Contain the respective communication module. Up to 2 different communication modules can be used at the same time; when using a digital I/O module IOM040 (K56), only 1 communication module can be used. Can only be used with ETUs of the 6-series.	COM043	Modbus TCP	**F 1 1**	✓
	COM042	Modbus RTU	**F 1 2**	✓
CB bus modules - I/O modules internal				
Conditions	Type	Version		
I/O module for 24 V DC with 2 inputs and 2 outputs with a maximum switching current per contact of 2 A at 24 V DC. When using a digital I/O module IOM040 (K56), only 1 communication module can be used. Can only be used with ETUs 6-series and communications interface selection.	Digital I/O module IOM040	2 inputs and 2 outputs	**K 5 6**	✓
Breaker Connect module				
Conditions	Type	Version		
When a molded case circuit breaker with a communications interface is ordered, a Breaker Connect module for external 24 V DC power supply of the electronic components is also supplied ready installed. By means of this Z option, the Breaker Connect module for 24 V DC is replaced by a Breaker Connect module for 110-240 V AC/DC.	Breaker Connect modules	110 - 240 V AC/DC	**F 2 6**	--

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

© Siemens 2019

2

Add "**-Z**" to the complete Article No. and indicate the appropriate order code(s).			**3VA27..-.....-....-Z** ☐☐☐ **+...+...**	Additional price
Auxiliary/signaling switches for 24 VDC digital signals for extremely low currents				
Conditions	Type	Version		
Auxiliary and signaling switches for currents > 100 mA and up to 400 V AC are installed as standard. For currents < 100 mA for PLC connections, these auxiliary and signaling switches can be replaced. The auxiliary/signaling switches for 24 V DC digital signals are designed for a - smallest load above 1 mA at 5 V DC and a - maximum breaking capacity of 100 mA at 24 V DC.	Ready-to-close signaling	1 CO digital	**K 5 0**	✓
	Auxiliary current switch ON / OFF AUX	4 CO digital	**K 5 1**	✓
	Auxiliary current switch ON / OFF AUX	2 CO standard + 2 CO digital	**K 5 2**	✓
	Tripped signaling switch S24	1 CO digital	**K 5 3**	✓
	Spring charged signaling switch S21 Only in combination with a spring charging motor.	1 CO digital	**K 5 4**	✓
	Position signaling switches PSS only with withdrawable versions[1)]	6 CO; 2x connected, 2x test and 2x disconnected.	**K 5 5**	✓
Mechanical operating cycles counter				
Conditions	Type	Version		
Mechanical operating cycles counter only possible in combination with a stored energy operating mechanism.	Mechanical operating cycles counter	5 digits	**C 0 1**	✓
Door sealing frame IP30				
Conditions	Type	Version		
For fixed-mounted and withdrawable versions. Can only be used up to IP3X degree of protection. For IP4X and higher, you must order the protective cover IP54 3VW9011-0AP03 or 3VW9011-0AP13.	Door sealing frame	IP3x	**T 3 0**	✓
Locking devices for breakers with stored energy operating mechanism (for fixed-mounted and withdrawable versions)				
Conditions	Variant	Version		
Locking devices in OFF position to prevent unauthorized activation, in the operator panel (safe OFF), fulfills the conditions for a supply disconnecting (isolating) device acc. to EN 60204-1	Cylinder lock	Ronis	**S 0 8**	✓
	Padlock 4 mm	Plastic for no more than 3 locks	**S 2 2**	✓
	Padlock 7 mm	Metal for no more than 1 lock	**S 2 3**	✓
	Padlock 8 mm	Metal for no more than 2 locks	**S 0 7**	✓
Padlockable protective cover ON/OFF on the operator panel	Padlock 4 mm	Plastic for no more than 3 locks	**S 4 2**	✓
	Padlock 7 mm	Metal for no more than 1 lock	**S 4 3**	✓
	Padlock 8 mm	Metal for no more than 2 locks	**S 4 4**	✓
Protective cover ON/OFF to protect against unintended actuation on the operator panel, cannot be locked.	Protective cover		**S 4 1**	✓

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

© Siemens 2019

Options

Add "**-Z**" to the complete Article No. and indicate the appropriate order code(s).			**3VA27..-.....-....-Z** □□□ **+...+...**	Additional price
Locking devices (for withdrawable version) [1]				
Conditions	Variant	Version		
Locking device to prevent movement of the withdrawable circuit breaker; safety lock for mounting on the circuit breaker	Cylinder lock	Ronis	**R 7 8**	✓
	Padlock 8 mm	For no more than 3 locks	**R 6 5**	✓
Locking mechanism to prevent movement of the withdrawable circuit breaker in disconnected position, supplement to R78 and/or R65. Only possible when using R78 and/or R65.	Locking mechanism		**R 7 9**	✓
Mounting options: Modification of the side wall of the fixed-mounted molded case circuit breaker for mechanical transmission of switch position [1] [2]				
Conditions	Variant	Version		
Pre-installed mounting support standard (circuit breaker feet) for mounting the fixed-mounted breaker on the floor	Fixed-mounted, Floor fixation	Mounting support standard	**A 0 7**	✓
Pre-installed extension kit, for mechanical transmission of switch position on circuit breaker side wall; allows attachment of - Fixation for external auxiliary switches AUX 15 CO (3VW9011-0AG15) - Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) - Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16) - Mechanical interlocking to 3WL/3VA (for 3VW9011-0BB21)	Fixed-mounted, Floor fixation	Mounting support extended[3]	**S 5 6**	✓
	Fixed-mounted, Rear fixation on mounting plate	Side wall extended	**S 5 7**	✓

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

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

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

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

© Siemens 2019

© Siemens 2019

2

Overview

The table below shows an overview of the accessories for 3WL10 compared to 3VA27:

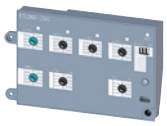
Type	3WL10 (stored energy operating mechanism)	3VA27 (stored energy operating mechanism)	3VA27 (toggle operating mechanism)
Accessories for connection and insulation	✓	✓	✓
Undervoltage release (UVR)	✓	✓	✓
Shunt release (ST)	✓	✓	✓
Shunt release (ST2)	✓	✓	✓
Closing coil (CC)	✓	✓	--
Spring charging motor (MO)	✓	✓	--
Ready-to-close signaling switch (RTC)	✓	✓	--
Remote reset magnet (RR)	✓	✓	--
Spring charged signaling switch (S21)	✓	✓	--
Position signaling switch PSS for guide frame	✓	✓	✓
Tripped signaling switch (TAS)	--	--	✓
Auxiliary switch (AUX1-AUX2)	✓	✓	✓
Auxiliary switch (AUX3-AUX4)	✓	✓	✓
Tripped signaling switch (S24)	✓	✓	✓
Tripped signaling switch via auxiliary release (S25)	--	--	✓
Leading changeover switch (S26)	--	--	✓
Mechanical operating cycles counter (MOC)	✓	✓	--
Position signaling switch communication (COM PSS)	✓	✓	✓
Breaker Connect module, external power supply	✓	✓	✓
Communication modules (COM040-COM044)	✓	✓	✓
Digital I/O module IOM040	✓	✓	✓
Ready-to-close signaling switch for communication (COM RTC)	✓	✓	--
Actuator module (COM ACT)	✓	✓	--
Door mounted rotary operator	--	--	✓
Front mounted rotary operator	--	--	✓
External digital I/O module IOM300	✓	✓	✓
DSP800 display	✓	✓	✓
External current transformer for N conductor	✓	✓	✓
External CT for grounding conductor of the main power supply GF-CT	✓	✓	✓
Summation current transformer Rc CT	✓	✓	✓
Protective covers to prevent unintended mechanical operation	✓	✓	--
Locking device, OFF position, Ronis	✓	✓	--
Locking device, OFF position, Ronis, for circuit breakers with toggle	--	--	✓
Padlockable protective cover ON/OFF	✓	✓	--
Locking device, OFF position, for padlocking	✓	✓	--
Breaker Data Adapters and test devices	✓	✓	✓

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

© Siemens 2019

Selection and ordering data

Electronic Trip Units (ETU)

	Type	Protective function / version	Expansion for communications / metering function / enhanced protection functions possible	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	ETU320	LIN with rotary coding switches	No		**3VW9011-5AA00**		1	1 unit	1CB
	ETU350	LSIN with rotary coding switches	No		**3VW9012-5AA00**		1	1 unit	1CB
	ETU360	LSING with rotary coding switches	No		**3VW9012-7AA00**		1	1 unit	1CB
	ETU650	LSIN with display	Yes		**3VW9017-5AA00**		1	1 unit	1CB
	ETU660	LSING with display	Yes		**3VW9017-7AA00**		1	1 unit	1CB

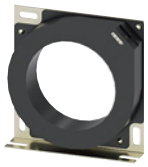
Metering function for ETU650 or ETU660

	Description	Protective function / version					
	Metering function	MF Basic	**3VW9011-0AT01**	1	1 unit	1CB
		MF Advanced	**3VW9011-0AT04**	1	1 unit	1CB
	Set of cables for voltage tap for MF	For 4-pole molded case circuit breakers with neutral right (positioned at top or bottom)	**3VW9011-0AT08**	1	1 unit	1CB
		For 3-pole molded case circuit breakers; positioned at top	**3VW9011-0AT72**	1	1 unit	1CB
		For 3-pole molded case circuit breakers; positioned at bottom	**3VW9011-0AT73**	1	1 unit	1CB
		For 4-pole molded case circuit breakers; positioned at top; neutral left	**3VW9011-0AT75**	1	1 unit	1CB
		For 4-pole molded case circuit breakers; positioned at bottom; neutral left	**3VW9011-0AT76**	1	1 unit	1CB

Rogowski CT solo external neutral

	Description	Can be used for ETU					
	Only for 3-pole molded case circuit breakers	ETU320, ETU350, ETU360 / ETU650, ETU660	**3VW9011-0AA30**	1	1 unit	1CB

CT external for grounded transformer star point

	Description	Can be used for ETU					
	G_{ret} = Ground return 100 A	ETU660	**3VW9011-0GF30**	1	1 unit	1CB
	G_{ret} = Ground return 250 A	ETU660	**3VW9011-0GF31**	1	1 unit	1CB

Summation current transformer external Rc-CT for residual current measurement

	Description	Can be used for ETU					
	For external residual current measurement	ETU660 Only with MF Advanced metering function and Rc rating plug	**3VW9011-0RC30**	1	1 unit	1CB

© Siemens 2019

Accessories and spare parts

Rating plugs

Only one module is possible per molded case circuit breaker.

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

Description	For ETU	Rated current I_n A	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Rating plugs for setting (< $I_{n\ max}$) the rated current I_n	All	400		**3VW9011-0AA53**		1	1 unit	1CB
		630		**3VW9011-0AA55**		1	1 unit	1CB
		800		**3VW9011-0AA56**		1	1 unit	1CB
		1000		**3VW9011-0AA57**		1	1 unit	1CB
		1250		**3VW9011-0AA58**		1	1 unit	1CB
		1600		**3VW9011-0AA61**		1	1 unit	1CB
Rating plug with overload protection L = OFF and for setting (< $I_{n\ max}$) the rated current I_n	Only for ETUs of the 6-series	400		**3VW9011-0LF53**		1	1 unit	1CB
		630		**3VW9011-0LF55**		1	1 unit	1CB
		800		**3VW9011-0LF56**		1	1 unit	1CB
		1000		**3VW9011-0LF57**		1	1 unit	1CB
		1250		**3VW9011-0LF58**		1	1 unit	1CB
		1600		**3VW9011-0LF61**		1	1 unit	1CB
Rc rating plug for ETU660, for enabling the residual current protection function and for setting (< $I_{n\ max}$) the rated current I_n. The residual current function is only possible with the MF Advanced metering function.	For ETU660 only	400		**3VW9011-0RC53**		1	1 unit	1CB
		630		**3VW9011-0RC55**		1	1 unit	1CB
		800		**3VW9011-0RC56**		1	1 unit	1CB
		1250		**3VW9011-0RC58**		1	1 unit	1CB

Remote reset magnets for tripped signaling

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

Replacement battery for ETU

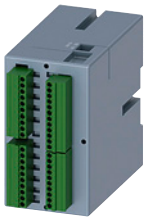
Description	Can be used for ETU	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Replacement battery for Electronic Trip Unit	All	**3VW9011-0AT38**		1	1 unit	1CB

CB bus modules - communication modules

Description	Communication module	Protocol	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
These contain the communication module. Two different communication modules can be used at the same time; when using a digital I/O module IOM040 (K56), only one communication module can be used. Can only be used with ETUs of the 6-series and require a Breaker Connect module for connection to the circuit breaker. This can also be configured directly on the device by means of a Z option if the communications interface to the ETU 6-series is selected.	COM043	Modbus TCP	**3VW9011-0AT16**		1	1 unit	1CB
	COM042	Modbus RTU	**3VW9011-0AT17**		1	1 unit	1CB

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

© Siemens 2019

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

© Siemens 2019

Accessories and spare parts

Auxiliary contact signals for communication

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

Test devices and Breaker Data Adapters

Description	Version	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Test device TD310 for the trip test via ETU and tripping solenoid including release. The ETU and the tripping solenoids are activated by means of a battery built into the test device. On activation in the ETU 6-series, the parameters can be configured on the display. Can be used for all ETUs 3-series and 6-series.	TD310	**3VW9011-0AT32**		1	1 unit	1CB
Breaker Data Adapter TD410 as gateway for the parameterization of the ETU with powerconfig and the generation of a report of the set parameters with powerservice. Can be used for all ETUs 3-series and 6-series.	TD410	**3VW9011-0AT34**		1	1 unit	1CB
Breaker Data Adapter TD420 as gateway for parameterization of the ETU with powerconfig: - Testing a tripping operation using powerconfig and the powerservice software: - Testing of the basic protection functions LSING - Testing of the enhanced protection functions - Test data storage - Readout of ETU buffer - Generation of a report of the set parameters Can be used for all ETUs 3-series and 6-series.	TD420	**3VW9011-0AT33**		1	1 unit	1CB

Auxiliary supply connectors in push-in version

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

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

© Siemens 2019

Auxiliary / signaling switches for toggle operating mechanism

Description	Type	Version	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Auxiliary and signaling switches are each offered in two versions: a) Standard version for currents > 100 mA and up to 400/250 V AC, - smallest load above 100 mA at 24 V DC and a - maximum breaking capacity of 5 A at 250 V AC. b) Digital version for currents < 100 mA for PLC connections, - smallest load above 1 mA at 5 V DC and a - maximum breaking capacity of 100 mA at 24 V DC. For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed-mounted breakers a 3VW9011-0BB5x side wall modification.	Tripped signaling switch TAS signals the trip position irrespective of the tripping reason	1 CO standard		**3VW9727-0AB11**		1	1 unit	1CB
		1 CO digital		**3VW9727-0AB13**		1	1 unit	1CB
	Tripped signaling switch via auxiliary release S25 signals tripping operations via auxiliary releases (UVR, ST) in UVR/ST2 pocket	1 CO standard		**3VW9727-0AB41**		1	1 unit	1CB
		1 CO digital		**3VW9727-0AB43**		1	1 unit	1CB
	Leading changeover switch S26 2 units	1 NO standard, 250 V AC		**3VW9727-0AA21**		1	1 unit	1CB

Fixation for external auxiliary switches AUX 15 CO

Description	Version		Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Fixation for external auxiliary switches ON/OFF AUX 15 CO. External auxiliary switches ON/OFF AUX 15 CO are to be ordered separately.	Fixed-mounted breakers, rear wall or floor fixation (as a basis for this, the Z option S56 (3VW9011-0BB52) or S57 (3VW9011-0BB53) must additionally be used)		**3VW9011-0AG15**		1	1 unit	1CB
	For guide frame		**3VW9011-0AG17**		1	1 unit	1CB

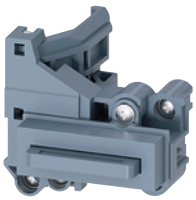
Spring charging motors MO

Description	Version	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Spring charging motor for automatic charging of the stored energy operating mechanism	24 ... 30 V AC/DC	**3VW9011-0AF01**		1	1 unit	1CB
	48 ... 60 V AC/DC	**3VW9011-0AF02**		1	1 unit	1CB
	100 ... 130 V AC/DC	**3VW9011-0AF03**		1	1 unit	1CB
	220 ... 250 V AC/DC	**3VW9011-0AF04**		1	1 unit	1CB

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

© Siemens 2019

Accessories and spare parts

				SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Manual operators for circuit breakers with toggle operating mechanism									
	Description	Version							
	Front mounted rotary operator incl. door sealing frame	Standard	Gray		**3VW9727-0EK11**		1	1 unit	1CB
		EMERGENCY-OFF	Yellow-red		**3VW9727-0EK15**		1	1 unit	1CB
	Door mounted rotary operators	Standard	Gray		**3VW9727-0FK21**		1	1 unit	1CB
		EMERGENCY-OFF	Yellow-red		**3VW9727-0FK25**		1	1 unit	1CB
		Basic without handle			**3VW9727-0GK00**		1	1 unit	1CB
		Shaft stub			**8UD1900-3WD00**		1	1 unit	1CB
		Handle	Gray		**8UD1861-0AB11**		1	1 unit	1CB
			Yellow-red		**8UD1861-0AB15**		1	1 unit	1CB
	Locking devices	Locking devices in OFF position for Ronis • To prevent unauthorized activation in the case of molded case circuit breakers with rotary operator			**3VW9727-0VL10**		1	1 unit	1CB
Locking devices for circuit breakers with toggle operating mechanism without rotary operators									
	**Locking devices for padlocks**	Locking devices in OFF position for padlocks • To prevent unauthorized activation in the operator panel • Without rotary operator			**3VW9727-0LB10**		1	1 unit	1CB
	Locking devices for Ronis	Locking devices in OFF position for Ronis • To prevent unauthorized activation in the operator panel • Without rotary operator			**3VW9727-0LF10**		1	1 unit	1CB

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

© Siemens 2019

			SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Closing coil / shunt release CC / ST								
	Description	Version						
	Closing coil / shunt release (CC / ST)	24 V AC/DC		**3VW9011-0AD01**		1	1 unit	1CB
		30 V AC/DC		**3VW9011-0AD02**		1	1 unit	1CB
		48 V AC/DC		**3VW9011-0AD03**		1	1 unit	1CB
		60 V AC/DC		**3VW9011-0AD04**		1	1 unit	1CB
		110 ... 120 V AC/DC		**3VW9011-0AD05**		1	1 unit	1CB
		120 ... 127 V AC/DC		**3VW9011-0AD06**		1	1 unit	1CB
		220 ... 240 V AC/DC		**3VW9011-0AD07**		1	1 unit	1CB
		240 ... 250 V AC/DC		**3VW9011-0AD08**		1	1 unit	1CB
		380 ... 400 V AC		**3VW9011-0AD17**		1	1 unit	1CB
		415 ... 440 V AC		**3VW9011-0AD18**		1	1 unit	1CB
Function test unit TD320 for closing coil / shunt release								
	Description	Version						
	The TD320 test unit allows the operational availability and functions of the closing coils and shunt releases with a rated operational voltage between 24 V and 250 V (AC and DC) to be tested. The operational availability test is performed cyclically at intervals of 30 seconds. The unit has optical indicators for displaying the operating states.	For all closing coils / shunt releases		**3VW9011-0AT31**		1	1 unit	1CB
Undervoltage releases UVR								
	Description	Version						
	Undervoltage release UVR	24 V AC/DC		**3VW9011-0AE01**		1	1 unit	1CB
		30 V AC/DC		**3VW9011-0AE02**		1	1 unit	1CB
		48 V AC/DC		**3VW9011-0AE03**		1	1 unit	1CB
		60 V AC/DC		**3VW9011-0AE04**		1	1 unit	1CB
		110 ... 120 V AC/DC		**3VW9011-0AE05**		1	1 unit	1CB
		120 ... 127 V AC/DC		**3VW9011-0AE06**		1	1 unit	1CB
		220 ... 240 V AC/DC		**3VW9011-0AE07**		1	1 unit	1CB
		240 ... 250 V AC/DC		**3VW9011-0AE08**		1	1 unit	1CB
		380 ... 400 V AC		**3VW9011-0AE17**		1	1 unit	1CB
		415 ... 440 V AC		**3VW9011-0AE18**		1	1 unit	1CB
External time-delay device for undervoltage release								
	Description	Version						
	External time-delay device for undervoltage release UVR with adjustable delay time from 0.5 to 3 s. Suitable for mounting onto DIN rail.	24 ... 30 V AC/DC		**3VW9011-0AE10**		1	1 unit	1CB
		48 V AC/DC		**3VW9011-0AE11**		1	1 unit	1CB
		60 V AC/DC		**3VW9011-0AE15**		1	1 unit	1CB
		110 ... 127 V AC/DC		**3VW9011-0AE12**		1	1 unit	1CB
		220 ... 250 V AC/DC		**3VW9011-0AE13**		1	1 unit	1CB

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

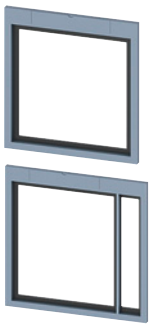
© Siemens 2019

Accessories and spare parts

Mechanical operating cycles counter

Description	Type	Version	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Mechanical operating cycles counter only possible in combination with a stored energy operating mechanism.	Mechanical operating cycles counter	5 digits		**3VW9011-0AH07**		1	1 unit	1CB

Door sealing frame IP30



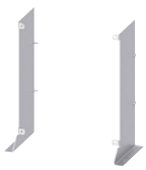
Top: For fixed-mounted breakers,
bottom: For withdrawable breakers

Description	Type	Version	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
For fixed-mounted and withdrawable breakers. Can only be used up to IP3x degree of protection. For IP4x and higher, you must order the protective cover IP54 3VW9011-0AP03 or 3VW9011-0AP13. Replacement part for Z option T30.	• For fixed-mounted breakers	IP3x		**3VW9011-0AP01**		1	1 unit	1CB
	• For withdrawable breakers • For 3VA27 with stored energy operating mechanism	IP3x		**3VW9011-0AP02**		1	1 unit	1CB
	• For withdrawable breakers • For 3VA27 with toggle operating mechanism	IP3x		**3VW9011-0AP04**		1	1 unit	1CB

Protective cover IP54

Description	Type	Version	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Protective cover / hood IP54 lockable for fixed-mounted breakers and withdrawable breakers, for implementing degrees of protection IP4X and IP54 when installing in switchboard door. Cannot be combined with IP30 door sealing frame	Lock with unique key	IP54		**3VW9011-0AP03**		1	1 unit	1CB
	Lock with standard key	IP54		**3VW9011-0AP13**		1	1 unit	1CB

Support for floor fixation and modification of the side wall of the fixed-mounted breaker



Description	Type	Version	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Mounting support standard (circuit breaker feet) for fixing the molded case circuit breaker on the floor.	For fixed-mounted breakers only	Floor fixation		**3VW9011-0BB51**		1	1 unit	1CB
Mounting support extended (circuit breaker feet); kit including mechanical transmission of switch position on circuit breaker side wall.[1)] (= option S56)	For fixed-mounted breakers only	Floor fixation		**3VW9011-0BB52**		1	1 unit	1CB
Side wall extension kit; modification for mechanical transmission of switch position on circuit breaker side wall.[1)] (= option S57)	For fixed-mounted breakers only	Rear fixation on mounting plate		**3VW9011-0BB53**		1	1 unit	1CB

[1)] Required for:
- Fixation of external auxiliary switch AUX 15 CO (3VW9011-0AG15)
- Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10)
- Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16)
- Mechanical interlocking to 3WL/3VA (for 3VW9011-0BB21)

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

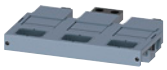
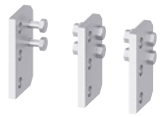
© Siemens 2019

				SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Locking devices for stored energy operating mechanism (for fixed-mounted and withdrawable versions)									
	Description	Type	Version						
	Locking device in OFF position to prevent unauthorized activation in the operator panel (safe OFF). The disconnector unit fulfills the conditions for a supply disconnecting (isolating) device acc. to EN 60204-1.	Cylinder lock (replacement for S08)	Ronis		**3VW9011-0BA33**		1	1 unit	1CB
		Padlock 4 mm (replacement for S22)	Plastic for no more than 3 locks		**3VW9011-0BA41**		1	1 unit	1CB
		Padlock 7 mm (replacement for S23)	Metal for no more than 1 lock		**3VW9011-0BA42**		1	1 unit	1CB
		Padlock 8 mm (replacement for S07)	Metal for no more than 2 locks		**3VW9011-0BA44**		1	1 unit	1CB
	Padlockable protective cover ON/OFF on the operator panel	Padlock 4 mm (replacement for S42)	Plastic for no more than 3 locks		**3VW9011-0BA22**		1	1 unit	1CB
		Padlock 7 mm (replacement for S43)	Metal for no more than 1 lock		**3VW9011-0BA23**		1	1 unit	1CB
		Padlock 8 mm (replacement for S44)	Metal for no more than 2 locks		**3VW9011-0BA24**		1	1 unit	1CB
	Protective cover ON/OFF to protect against unintentional actuation on the operator panel. Not lockable.	Protective cover (replacement for S41)			**3VW9011-0BA21**		1	1 unit	1CB
Locking devices for toggle operating mechanism and stored energy operating mechanism (for withdrawable version)[1)]									
	Description	Type	Version						
	Locking device to prevent movement of the withdrawable circuit breaker.	Cylinder lock (replacement for R78)	Ronis		**3VW9011-0BA80**		1	1 unit	1CB
	Safety lock for mounting on the circuit breaker.	Padlock 8 mm (replacement for R65)	For no more than 3 locks		**3VW9011-0BA87**		1	1 unit	1CB
	Locking mechanism to prevent movement of the withdrawable circuit breaker in disconnected position. Supplement to R78 (3VW9011-0BA80) and/or R65 (3VW9011-0BA84). Only possible when using R78 (3VW9011-0BA80) and/or R65 (3VW9011-0BA84).	Locking mechanism (replacement for R79)			**3VW9011-0BA84**		1	1 unit	1CB
Locking mechanism to prevent opening of the control cabinet door in ON position									
	Description	Type	Version						
	Locking mechanism to prevent opening of the control cabinet door in ON position. It additionally prevents the molded case circuit breaker from being closed when the control cabinet door is open.	Fixed-mounted in side wall / or floor fixation[1)]	Direct fixed interlocking		**3VW9011-0BB10**		1	1 unit	1CB
		Withdrawable	Direct fixed interlocking		**3VW9011-0BB14**		1	1 unit	1CB
		Fixed-mounted in side wall / or floor fixation[1)]	Interlocking with Bowden cable		**3VW9011-0BB16**		1	1 unit	1CB
		Withdrawable	Interlocking with Bowden cable		**3VW9011-0BB18**		1	1 unit	1CB
Mechanical interlocking with Bowden cable									
	Description	Version	Number of poles / quantity						
	Mechanical interlocking to 3WL / 3VA	Fixed-mounted[1)]	Rear panel or floor fixation		**3VW9011-0BB21**		1	1 unit	1CB
	(interlocking module with Bowden cable 2 m)	Withdrawable	Fixation on guide frame		**3VW9011-0BB22**		1	1 unit	1CB

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

© Siemens 2019

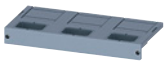
Accessories and spare parts

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

[1] Acc. to IEC 60947-2 for 3WL10 up to 1250 A, for 3VA27 up to 1600 A (depending on application conditions)
[2] Including: Insulation plate and standard phase barriers (H = 100 mm) (3VW9723-0WA00 / 3VW9723-0WA10)
[3] Including: Insulation plate and extended phase barriers (H = 200 mm) (3VW9723-0WA01 / 3VW9723-0WA11)
[4] Including: Standard terminal cover for fixed-mounted breakers (3VW9723-0WD30 / 3VW9723-0WD40)
[5] Including: Insulation plate and high, extended terminal cover (3VW9723-0WF30 / 3VW9723-0WF40)

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

© Siemens 2019

				SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Terminal covers for fixed-mounted breakers[1]									
	Description	Version	Number of poles / quantity						
	Finger-proof terminal cover for front terminals for main circuit connection for fixed-mounted breakers	For fixed-mounted version, standard	3-pole / 2 units		**3VW9723-0WD30**		1	1 unit	1CB
			4-pole / 2 units		**3VW9724-0WD40**		1	1 unit	1CB
		For fixed-mounted version, extended	3-pole / 2 units		**3VW9723-0WF30**		1	1 unit	1CB
			4-pole / 2 units		**3VW9724-0WF40**		1	1 unit	1CB
Phase barriers for fixed-mounted breakers[1]									
	Description	Version	Number of poles / quantity						
	Set of phase barriers for fixed-mounted molded case circuit breakers For operating voltages > 440 V AC the use of phase barriers is mandatory; up to 440 V AC their use is optional.	H = 100 mm	3-pole / 4 units		**3VW9723-0WA00**		1	1 unit	1CB
		H = 200 mm	3-pole / 4 units		**3VW9723-0WA01**		1	1 unit	1CB
		H = 100 mm	4-pole / 6 units		**3VW9724-0WA10**		1	1 unit	1CB
		H = 200 mm	4-pole / 6 units		**3VW9724-0WA11**		1	1 unit	1CB

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

© Siemens 2019

2

Overview

Devices		Page	Application/ individual components	Standards	Used in		
					Non-residential buildings	Residential buildings	Industry
	3VL molded case circuit breakers for line protection **3VL molded case circuit breakers for generator protection**	2/222 ... 2/237, 2/246 ... 2/263	The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads. 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 Are you IE3/IE4 ready?	2/238 ... 2/241	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. IE3 ready	✓	✓	✓
	3VL molded case circuit breakers for starter protection Are you IE3/IE4 ready?	2/242, 2/243	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. IE3 ready	✓	✓	✓
	3VL non-automatic circuit breakers, molded case	2/242, 2/243, 2/264, 2/265	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. Isolating features according to IEC 60947-2, EN 60947-2.	✓	✓	✓
	Auxiliary switches and auxiliary releases for 3VL molded case circuit breakers	2/271, 2/272	Auxiliary switches, alarm switches, undervoltage releases and shunt releases	As for circuit breakers	✓	✓	✓
	Operating mechanisms	2/274 ... 2/281	The manual operating mechanisms are available in two versions: • Front-operated rotary operating mechanism, • Door-coupling rotary operating mechanism In the case of the motorized operating mechanisms there are also two versions: • MO for standard applications • SEO for network synchronization tasks	As for circuit breakers	✓	✓	✓
	Plug-in versions/ withdrawable versions	2/282 ... 2/287	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	✓	✓	✓

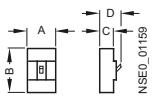
Note:
The 3VL molded case circuit breakers up to 1600 A, IEC are currently still available, but in the foreseeable future they will no longer be able to be ordered.

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

© Siemens 2019

Devices		Page	Application/ individual components	Standards	Used in		
					Non-residential buildings	Residential buildings	Industry
	RCD modules	2/288	Protection of plant and personnel against damage or injury caused by residual currents and insulation faults.	IEC EN 60947-2 (Annex 5)	✓	✓	✓
	Residual current devices (MRCD)	Ch. 13	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	2/289 ... 2/294	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	2/295 ... 2/300	Locking devices for toggle levers, rear interlocking modules, interlocking modules for Bowden cable interlocking	As for circuit breakers	✓	✓	✓
	3KC ATC6300 and ATC3100 transfer control devices	Ch. 8	The 3KC ATC6300 and ATC3100 transfer control devices, equipped with two circuit breakers with motorized operating mechanism, serve as a transfer system that automatically or manually switches between two power supply systems in low-voltage power distribution applications.	IEC 60947-6-1 DIN VDE 0660-114 UL 508 CSA 22.2 No. 14	✓	✓	✓
	40 mm busbar systems and 60 mm busbar systems	Ch. 11	Busbar adapters	As for circuit breakers	✓	✓	✓
	Accessories for communication	2/303	Data transmission through COM20, COM21: COM20 (PROFIBUS) for Electronic Trip Units with communication function, COM21 (MODBUS) for Electronic Trip Units with communication function, powerconfig commissioning and service software	As for circuit breakers	✓	✓	✓
	Further accessories	2/304 ... 2/307	Cover frames for door cut-outs, to increase degree of protection	As for circuit breakers	✓	✓	✓

© Siemens 2019

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[2]	600	600[2]
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 Catalog LV 18 or Catalog LV 16.

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

[2] For PV applications up to U_e = 1000 V DC.

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

© Siemens 2019

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
690 600	690 600	690 --	690 --	690 --	690 --	690 --	690 --
✓ ✓ ✓	✓ ✓ ✓	-- ✓ ✓	-- ✓ ✓	-- ✓ ✓	-- ✓ ✓	-- ✓ ✓	-- ✓ ✓
190 279 102 138	253 279 102 138	190 406 114 151	253 406 114 151	229 406 152 207	305 406 152 207	229 406 152 207	305 406 152 207
65/65 55/55 35/26 25/20 20/10 32/32 -- -- 25 20		65/65 55/55 35/26 25/20 20/10 -- -- -- 25 20		65/35 55/28 35/26 25/20 20/10 -- -- -- 25 20		65/35 55/28 35/26 25/20 20/10 -- -- -- 25 20	
100/75 70/70 50/38 40/30 20/10 32/32 32/32 -- 50 30		100/75 70/70 50/38 40/30 20/10 -- -- -- 50 30		100/50 70/35 50/38 40/30 30/15 -- -- -- 50 30		100/50 70/35 50/38 40/30 30/15 -- -- -- 50 30	
200/150 100/75 75/50 50/38 20/10 32/32 32/32 32/32 65 35		200/150 100/75 75/50 50/38 20/10 -- -- -- 65 35		200/100 100/50 75/50 50/38 35/17 -- -- -- 65 35		200/100 100/50 75/50 50/38 35/17 -- -- -- 65 35	

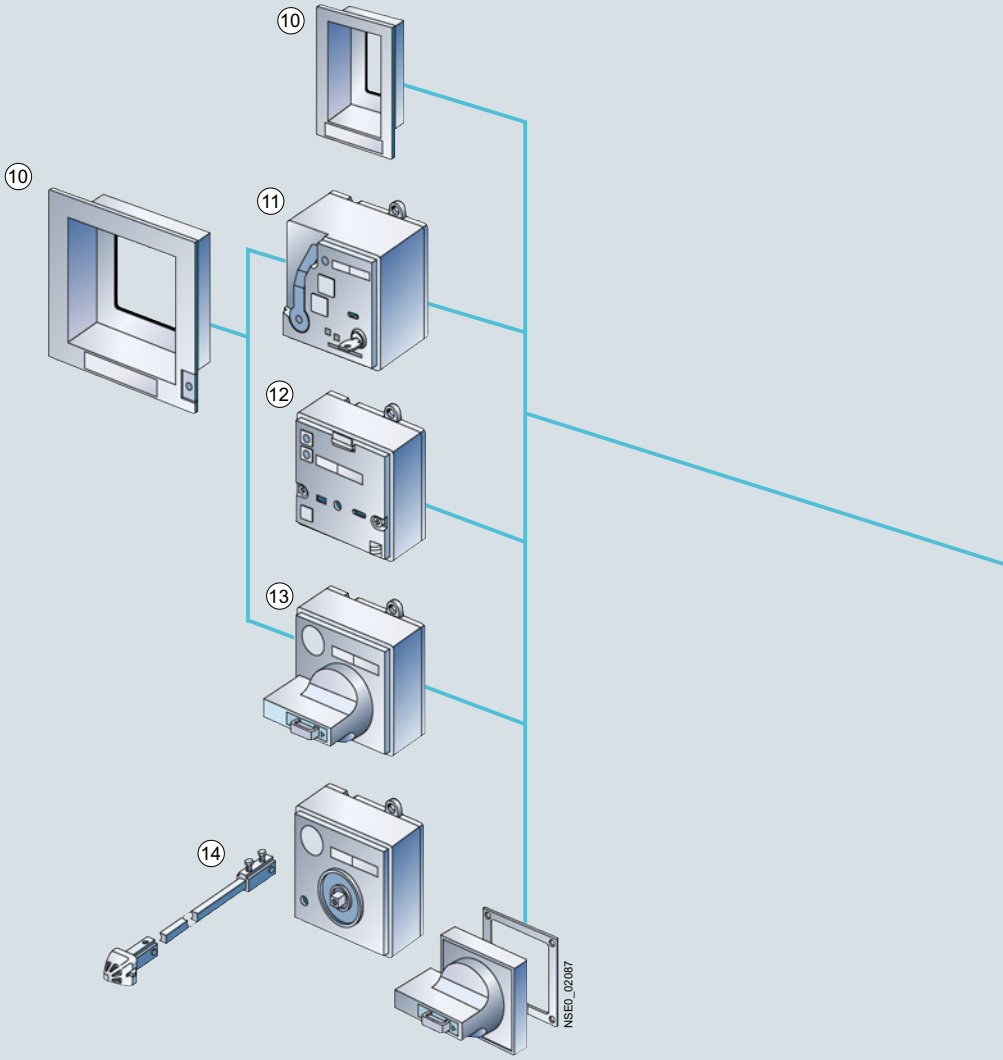
[3] At 240 V AC, 415 V AC, 525 V AC and 690 V AC max. 5% overvoltage, at 440 V AC and 500 V AC max. 10% overvoltage, at 250/500/600 V DC max. 5% overvoltage.

[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.

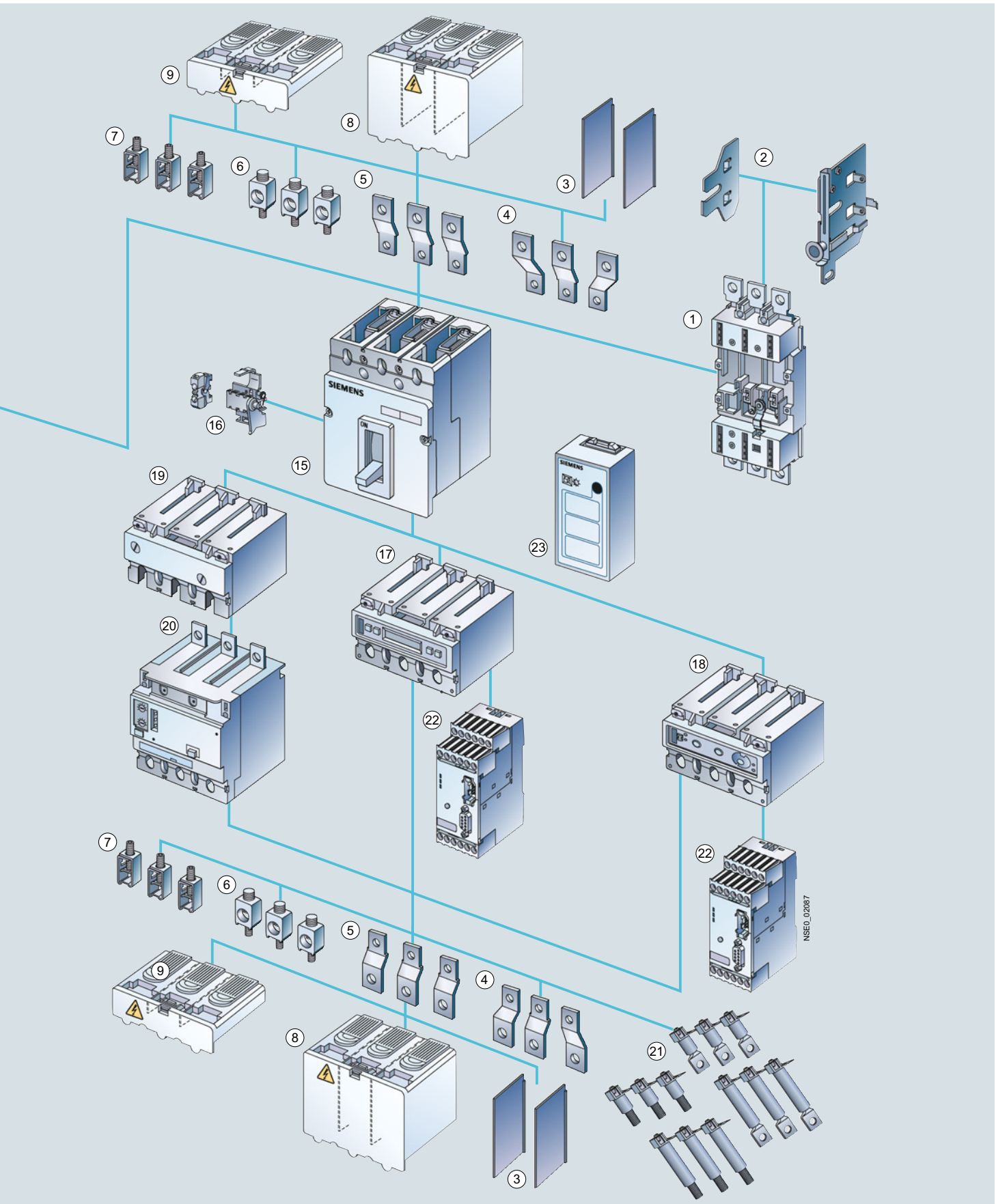
© Siemens 2019



① Withdrawable/plug-in bases (pages 2/282 to 2/287)
② Side walls of withdrawable unit (pages 2/282 to 2/287)
③ Phase barriers (pages 2/289 to 2/294)
④ Front connecting bars for increased pole spacing (pages 2/289 to 2/294)
⑤ Straight connecting bars (pages 2/289 to 2/294)
⑥ Circular conductor terminals for Al/Cu (pages 2/289 to 2/291)
⑦ Box terminals for Cu (pages 2/289 to 2/294)
⑧ Extended connection covers (terminal covers) (pages 2/289 to 2/294)
⑨ Standard connection covers (pages 2/289 to 2/294)
⑩ Masking frames/cover frames for door cut-out (pages 2/304 to 2/307)
⑪ Motorized operating mechanisms with stored energy mechanism (SEO) (page 2/278)
⑫ Motorized operating mechanisms (MO) (page 2/278)
⑬ Front-operated rotary operating mechanisms (pages 2/274 to 2/277)
⑭ Door-coupling rotary operating mechanisms (pages 2/274 to 2/277)
⑮ 3VL molded case circuit breakers (pages 2/222 to 2/265)
⑯ Internal accessories (pages 2/269, 2/270, 2/271 to 2/273)
⑰ Electronic trip units LCD ETU (pages 2/232, 2/236, 2/240, 2/256 and 2/258)
⑱ Electronic trip units with communication function (pages 2/224 to 2/241, 2/252 to 2/262)
⑲ Thermal/magnetic trip units (pages 2/222 to 2/224, 2/242, 2/246 to 2/250, 2/264)
⑳ RCD modules (page 2/288)
㉑ Rear terminals, flat and round (pages 2/289 to 2/294)
㉒ COM20/21 communication module for the PROFIBUS DP/MODBUS (page 2/303)
㉓ Battery power supplies with test function for Electronic Trip Units (pages 2/296 to 2/300)

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

© Siemens 2019



© Siemens 2019

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 1600 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 2/224 to 2/241, 2/252 to 2/263.
- For communication accessories, see page 2/303.
- 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 to IEC 60947-2, EN 60947-2.

Means of disconnection (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 comply with IEC 60947-4-1, VDE 0660-102.

VL160X to VL400 circuit breakers can be equipped with a 3VL RCD module. They therefore comply with IEC 60947-2 Annex 5.

The 3VL RCD module complies with IEC 61000-4-2 to IEC 61000-4-6, IEC 61000-4-11 and EN 55011, Class 5 (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 application manual for controls with IE3/IE4 motors at

https://support.industry.siemens.com/cs/ww/en/view/94770820.

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

© Siemens 2019

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.

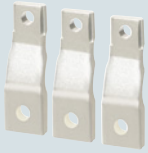
Protection of plant and equipment against overload or damage by ground faults (ground-fault protection).

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 terminal/ 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 connections	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 terminal[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	--	--	--	--
• Finely stranded without end sleeve		mm^2	2.5 ... 70	2.5 ... 70	25 ... 150	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.

© Siemens 2019

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 = × I_n	I_{sd} = × I_r	t_{sd} [s]	I_i = × I_n	I_g = × 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] Fixed.

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

© Siemens 2019

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-wire system)
② Vectorial summation current formation (4-wire 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.

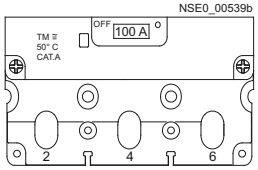
© Siemens 2019

2

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	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview". (N)			
					Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	A	d					
3-pole, fixed-mounted, for line protection, 16 A to 160 A, thermal-magnetic overcurrent releases LI									

NSE0_00695



Line protection, TM, LI function

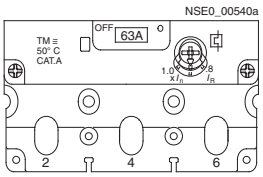
With fixed thermal overcurrent releases, fixed short-circuit releases

	16	16	300	**3VL1796-1DA3□-□□□□**	1	1 unit	1CC
VL160X/	20	20	300	**3VL1702-1DA3□-□□□□**	1	1 unit	1CC
3VL1	25	25	300	**3VL1725-1DA3□-□□□□**	1	1 unit	1CC
	32	32	300	**3VL1703-1DA3□-□□□□**	1	1 unit	1CC
	40	40	600	**3VL1704-1DA3□-□□□□**	1	1 unit	1CC
	50	50	600	**3VL1705-1DA3□-□□□□**	1	1 unit	1CC
	63	63	600	**3VL1706-1DA3□-□□□□**	1	1 unit	1CC
	80	80	1000	**3VL1708-1DA3□-□□□□**	1	1 unit	1CC
	100	100	1000	**3VL1710-1DA3□-□□□□**	1	1 unit	1CC
	125	125	1000	**3VL1712-1DA3□-□□□□**	1	1 unit	1CC
	160	160	1500	**3VL1716-1DA3□-□□□□**	1	1 unit	1CC

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**

NSE0_00703



Line protection, TM, LI function

With adjustable thermal overcurrent releases, fixed short-circuit releases

VL160X/	20	16 ... 20	300	**3VL1702-1DD3□-□□□□**	1	1 unit	1CC
3VL1	32	25 ... 32	300	**3VL1703-1DD3□-□□□□**	1	1 unit	1CC
	40	32 ... 40	600	**3VL1704-1DD3□-□□□□**	1	1 unit	1CC
	50	40 ... 50	600	**3VL1705-1DD3□-□□□□**	1	1 unit	1CC
	63	50 ... 63	600	**3VL1706-1DD3□-□□□□**	1	1 unit	1CC
	80	63 ... 80	1000	**3VL1708-1DD3□-□□□□**	1	1 unit	1CC
	100	80 ... 100	1000	**3VL1710-1DD3□-□□□□**	1	1 unit	1CC
	125	100 ... 125	1000	**3VL1712-1DD3□-□□□□**	1	1 unit	1CC
	160	125 ... 160	1500	**3VL1716-1DD3□-□□□□**	1	1 unit	1CC

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.**

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

© Siemens 2019

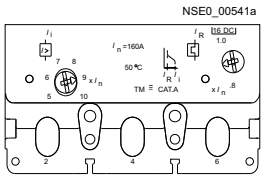
SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)				
	Article No. Article No. supplement, see page 2/268; d www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		Article No. Article No. supplement, see page 2/268; d www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	3VL1796-2DA3□-□□□□		1	1 unit	1CC		--				
	3VL1702-2DA3□-□□□□		1	1 unit	1CC		--				
	3VL1725-2DA3□-□□□□		1	1 unit	1CC		--				
	3VL1703-2DA3□-□□□□		1	1 unit	1CC		--				
	3VL1704-2DA3□-□□□□		1	1 unit	1CC		--				
	3VL1705-2DA3□-□□□□		1	1 unit	1CC		--				
	3VL1706-2DA3□-□□□□		1	1 unit	1CC		--				
	3VL1708-2DA3□-□□□□		1	1 unit	1CC		--				
	3VL1710-2DA3□-□□□□		1	1 unit	1CC		--				
	3VL1712-2DA3□-□□□□		1	1 unit	1CC		--				
	3VL1716-2DA3□-□□□□		1	1 unit	1CC		--				
	3 6										
	3VL1702-2DD3□-□□□□		1	1 unit	1CC		--				
	3VL1703-2DD3□-□□□□		1	1 unit	1CC		--				
	3VL1704-2DD3□-□□□□		1	1 unit	1CC		--				
	3VL1705-2DD3□-□□□□		1	1 unit	1CC		--				
	3VL1706-2DD3□-□□□□		1	1 unit	1CC		--				
	3VL1708-2DD3□-□□□□		1	1 unit	1CC		--				
	3VL1710-2DD3□-□□□□		1	1 unit	1CC		--				
	3VL1712-2DD3□-□□□□		1	1 unit	1CC		--				
	3VL1716-2DD3□-□□□□		1	1 unit	1CC		--				
	3 6										

© Siemens 2019

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	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview". (N) Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU/ Price see page 2/244	PU (UNIT, SET, M)	PS	PG
	A	A	A	d					

3-pole, fixed-mounted, for line protection, 50 A to 630 A, thermal-magnetic overcurrent releases LI



Line protection, TM, LI function

With adjustable thermal overcurrent releases, adjustable short-circuit releases

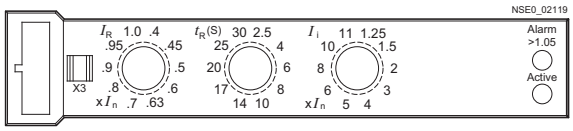
VL160/3VL2	50	40 ... 50	300 ... 600	**3VL2705-1DC3□-□□□□**	1	1 unit	1CC
	63	50 ... 63	300 ... 600	**3VL2706-1DC3□-□□□□**	1	1 unit	1CC
	80	63 ... 80	400 ... 800	**3VL2708-1DC3□-□□□□**	1	1 unit	1CC
	100	80 ... 100	500 ... 1000	**3VL2710-1DC3□-□□□□**	1	1 unit	1CC
	125	100 ... 125	625 ... 1250	**3VL2712-1DC3□-□□□□**	1	1 unit	1CC
	160	125 ... 160	800 ... 1600	**3VL2716-1DC3□-□□□□**	1	1 unit	1CC
VL250/3VL3	200	160 ... 200	1000 ... 2000	**3VL3720-1DC3□-□□□□**	1	1 unit	1CC
	250	200 ... 250	1250 ... 2500	**3VL3725-1DC3□-□□□□**	1	1 unit	1CC

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
	250	200 ... 250	1250 ... 2500	**3VL4725-1DC36-□□□□**	1	1 unit	1CC
	315	250 ... 315	1575 ... 3150	**3VL4731-1DC36-□□□□**	1	1 unit	1CC
	400	320 ... 400	2000 ... 4000	**3VL4740-1DC36-□□□□**	1	1 unit	1CC
VL630/3VL5	315	250 ... 315	1575 ... 3150	**3VL5731-1DC36-□□□□**	1	1 unit	1CC
	400	320 ... 400	2000 ... 4000	**3VL5740-1DC36-□□□□**	1	1 unit	1CC
	500	400 ... 500	2500 ... 5000	**3VL5750-1DC36-□□□□**	1	1 unit	1CC
	630	500 ... 630	3150 ... 6300	**3VL5763-1DC36-□□□□**	1	1 unit	1CC

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



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
	100	40 ... 100	1.25 ... 11 × I_n	**3VL2710-1□□3□-□□□□**	1	1 unit	1CC
	160	64 ... 160	1.25 ... 11 × I_n	**3VL2716-1□□3□-□□□□**	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... 11 × I_n	**3VL3720-1□□3□-□□□□**	1	1 unit	1CC
	250	100 ... 250	1.25 ... 11 × I_n	**3VL3725-1□□3□-□□□□**	1	1 unit	1CC

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
	400	160 ... 400	1.25 ... 11 × I_n	**3VL4740-1□□36-□□□□**	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... 10 × I_n	**3VL5763-1□□36-□□□□**	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... 8 × I_n	**3VL6780-1□□36-□□□□**	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × I_n	**3VL7710-1□□36-□□□□**	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... 11 × I_n	**3VL7712-1□□36-□□□□**	1	1 unit	1CC
VL1600/3VL8[2)]	1600	640 ... 1600	1.25 ... 9 × I_n	**3VL8716-1□□30-□□□□**	1	1 unit	1CC

• 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 2/303.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

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

© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)				
	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU/ Price see page 2/244	PU (UNIT, SET, M)	PS	PG		Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU/ Price see page 2/244	PU (UNIT, SET, M)	PS	PG
d						d					
	3VL2705-2DC3□-□□□□		1	1 unit	1CC		**3VL2705-3DC3□-□□□□**		1	1 unit	1CC
	3VL2706-2DC3□-□□□□		1	1 unit	1CC		**3VL2706-3DC3□-□□□□**		1	1 unit	1CC
	3VL2708-2DC3□-□□□□		1	1 unit	1CC		**3VL2708-3DC3□-□□□□**		1	1 unit	1CC
	3VL2710-2DC3□-□□□□		1	1 unit	1CC		**3VL2710-3DC3□-□□□□**		1	1 unit	1CC
	3VL2712-2DC3□-□□□□		1	1 unit	1CC		**3VL2712-3DC3□-□□□□**		1	1 unit	1CC
	3VL2716-2DC3□-□□□□		1	1 unit	1CC		**3VL2716-3DC3□-□□□□**		1	1 unit	1CC
	3VL3720-2DC3□-□□□□		1	1 unit	1CC		**3VL3720-3DC3□-□□□□**		1	1 unit	1CC
	3VL3725-2DC3□-□□□□		1	1 unit	1CC		**3VL3725-3DC3□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4720-2DC36-□□□□		1	1 unit	1CC		**3VL4720-3DC36-□□□□**		1	1 unit	1CC
	3VL4725-2DC36-□□□□		1	1 unit	1CC		**3VL4725-3DC36-□□□□**		1	1 unit	1CC
	3VL4731-2DC36-□□□□		1	1 unit	1CC		**3VL4731-3DC36-□□□□**		1	1 unit	1CC
	3VL4740-2DC36-□□□□		1	1 unit	1CC		**3VL4740-3DC36-□□□□**		1	1 unit	1CC
	3VL5731-2DC36-□□□□		1	1 unit	1CC		**3VL5731-3DC36-□□□□**		1	1 unit	1CC
	3VL5740-2DC36-□□□□		1	1 unit	1CC		**3VL5740-3DC36-□□□□**		1	1 unit	1CC
	3VL5750-2DC36-□□□□		1	1 unit	1CC		**3VL5750-3DC36-□□□□**		1	1 unit	1CC
	3VL5763-2DC36-□□□□		1	1 unit	1CC		**3VL5763-3DC36-□□□□**		1	1 unit	1CC
	3VL2706-2□□3□-□□□□		1	1 unit	1CC		**3VL2706-3□□3□-□□□□**		1	1 unit	1CC
	3VL2710-2□□3□-□□□□		1	1 unit	1CC		**3VL2710-3□□3□-□□□□**		1	1 unit	1CC
	3VL2716-2□□3□-□□□□		1	1 unit	1CC		**3VL2716-3□□3□-□□□□**		1	1 unit	1CC
	3VL3720-2□□3□-□□□□		1	1 unit	1CC		**3VL3720-3□□3□-□□□□**		1	1 unit	1CC
	3VL3725-2□□3□-□□□□		1	1 unit	1CC		**3VL3725-3□□3□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4731-2□□36-□□□□		1	1 unit	1CC		**3VL4731-3□□36-□□□□**		1	1 unit	1CC
	3VL4740-2□□36-□□□□		1	1 unit	1CC		**3VL4740-3□□36-□□□□**		1	1 unit	1CC
	3VL5763-2□□36-□□□□		1	1 unit	1CC		**3VL5763-3□□36-□□□□**		1	1 unit	1CC
	3VL6780-2□□36-□□□□		1	1 unit	1CC		**3VL6780-3□□36-□□□□**		1	1 unit	1CC
	3VL7710-2□□36-□□□□		1	1 unit	1CC		**3VL7710-3□□36-□□□□**		1	1 unit	1CC
	3VL7712-2□□36-□□□□		1	1 unit	1CC		**3VL7712-3□□36-□□□□**		1	1 unit	1CC
	3VL8716-2□□30-□□□□		1	1 unit	1CC		**3VL8716-3□□30-□□□□**		1	1 unit	1CC
	SB MB LB						**SB MB LB**				

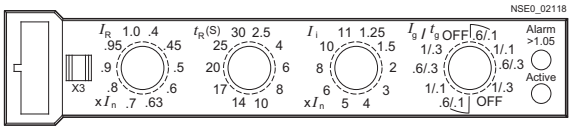
© Siemens 2019

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	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N (N) See "Overview". Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG
	A	A	A	A	d					

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
	100	40 ... 100	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL2710-1□□3□-□□□□**	1	1 unit	1CC
	160	64 ... 160	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL2716-1□□3□-□□□□**	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL3720-1□□3□-□□□□**	1	1 unit	1CC
	250	100 ... 250	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL3725-1□□3□-□□□□**	1	1 unit	1CC

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

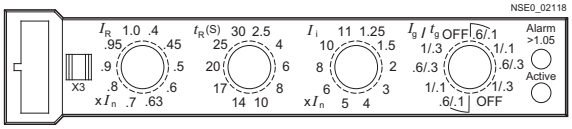
• Connection with box terminal	**3**
• Connection with screw terminal[1)]	**6**

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

• 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 2/302. 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
	100	40 ... 100	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL2710-1□□3□-□□□□**	1	1 unit	1CC
	160	64 ... 160	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL2716-1□□3□-□□□□**	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL3720-1□□3□-□□□□**	1	1 unit	1CC
	250	100 ... 250	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL3725-1□□3□-□□□□**	1	1 unit	1CC

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
	400	160 ... 400	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL4740-1□□36-□□□□**	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... 10 × I_n	0.6 ... 1 × I_n, OFF	**3VL5763-1□□36-□□□□**	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... 8 × I_n	0.6 ... 1 × I_n, OFF	**3VL6780-1□□36-□□□□**	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL7710-1□□36-□□□□**	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL7712-1□□36-□□□□**	1	1 unit	1CC
VL1600/3VL8[2)]	1600	640 ... 1600	1.25 ... 9 × I_n	0.6 ... 1 × I_n, OFF	**3VL8716-1□□30-□□□□**	1	1 unit	1CC

• 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.

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

© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H				(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L				(L)
	Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG		Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG
d						d					
	3VL2706-2□□3□-□□□□ **3VL2710-2□□3□-□□□□** **3VL2716-2□□3□-□□□□**		1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC		**3VL2706-3□□3□-□□□□** **3VL2710-3□□3□-□□□□** **3VL2716-3□□3□-□□□□**		1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
	3VL3720-2□□3□-□□□□ **3VL3725-2□□3□-□□□□**		1 1	1 unit 1 unit	1CC 1CC		**3VL3720-3□□3□-□□□□** **3VL3725-3□□3□-□□□□**		1 1	1 unit 1 unit	1CC 1CC
	3 6						**3 6**				
	3VL4731-2□□36-□□□□ **3VL4740-2□□36-□□□□**		1 1	1 unit 1 unit	1CC 1CC		**3VL4731-3□□36-□□□□** **3VL4740-3□□36-□□□□**		1 1	1 unit 1 unit	1CC 1CC
	3VL5763-2□□36-□□□□		1	1 unit	1CC		**3VL5763-3□□36-□□□□**		1	1 unit	1CC
	3VL6780-2□□36-□□□□		1	1 unit	1CC		**3VL6780-3□□36-□□□□**		1	1 unit	1CC
	3VL7710-2□□36-□□□□ **3VL7712-2□□36-□□□□**		1 1	1 unit 1 unit	1CC 1CC		**3VL7710-3□□36-□□□□** **3VL7712-3□□36-□□□□**		1 1	1 unit 1 unit	1CC 1CC
	3VL8716-2□□30-□□□□		1	1 unit	1CC		**3VL8716-3□□30-□□□□**		1	1 unit	1CC
	SL ML						**SL ML**				

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H				(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L				(L)
	Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG		Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG
d						d					
	3VL2706-2□□3□-□□□□ **3VL2710-2□□3□-□□□□** **3VL2716-2□□3□-□□□□**		1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC		**3VL2706-3□□3□-□□□□** **3VL2710-3□□3□-□□□□** **3VL2716-3□□3□-□□□□**		1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
	3VL3720-2□□3□-□□□□ **3VL3725-2□□3□-□□□□**		1 1	1 unit 1 unit	1CC 1CC		**3VL3720-3□□3□-□□□□** **3VL3725-3□□3□-□□□□**		1 1	1 unit 1 unit	1CC 1CC
	3 6						**3 6**				
	3VL4731-2□□36-□□□□ **3VL4740-2□□36-□□□□**		1 1	1 unit 1 unit	1CC 1CC		**3VL4731-3□□36-□□□□** **3VL4740-3□□36-□□□□**		1 1	1 unit 1 unit	1CC 1CC
	3VL5763-2□□36-□□□□		1	1 unit	1CC		**3VL5763-3□□36-□□□□**		1	1 unit	1CC
	3VL6780-2□□36-□□□□		1	1 unit	1CC		**3VL6780-3□□36-□□□□**		1	1 unit	1CC
	3VL7710-2□□36-□□□□ **3VL7712-2□□36-□□□□**		1 1	1 unit 1 unit	1CC 1CC		**3VL7710-3□□36-□□□□** **3VL7712-3□□36-□□□□**		1 1	1 unit 1 unit	1CC 1CC
	3VL8716-2□□30-□□□□		1	1 unit	1CC		**3VL8716-3□□30-□□□□**		1	1 unit	1CC
	SF MF						**SF MF**				

Communication:

- For accessories, see page 2/303.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

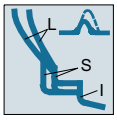
Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

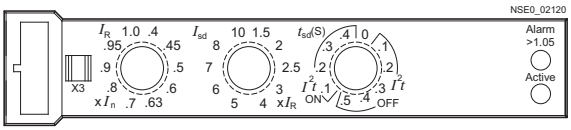
3-pole

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**	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview". Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG
	A	A	A	A	d					

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, fixed 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
	100	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	**3VL2710-1□□3□-□□□□**	1	1 unit	1CC
	160	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	**3VL2716-1□□3□-□□□□**	1	1 unit	1CC
VL250/3VL3	200	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	**3VL3720-1□□3□-□□□□**	1	1 unit	1CC
	250	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	**3VL3725-1□□3□-□□□□**	1	1 unit	1CC

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
	400	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	**3VL4740-1□□36-□□□□**	1	1 unit	1CC
VL630/3VL5	630	0.4 ... 1.0 × I_n	10 × I_n	1.5 ... 9 × I_R	**3VL5763-1□□36-□□□□**	1	1 unit	1CC
VL800/3VL6	800	0.4 ... 1.0 × I_n	8 × I_n	1.5 ... 7 × I_R	**3VL6780-1□□36-□□□□**	1	1 unit	1CC
VL1250/3VL7	1000	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	**3VL7710-1□□36-□□□□**	1	1 unit	1CC
	1250	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	**3VL7712-1□□36-□□□□**	1	1 unit	1CC
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

• 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 2/303.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

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

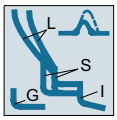
© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)				SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)				
	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG		Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG
d					d						
	3VL2706-2□□3□-□□□□		1	1 unit	1CC		**3VL2706-3□□3□-□□□□**		1	1 unit	1CC
	3VL2710-2□□3□-□□□□		1	1 unit	1CC		**3VL2710-3□□3□-□□□□**		1	1 unit	1CC
	3VL2716-2□□3□-□□□□		1	1 unit	1CC		**3VL2716-3□□3□-□□□□**		1	1 unit	1CC
	3VL3720-2□□3□-□□□□		1	1 unit	1CC		**3VL3720-3□□3□-□□□□**		1	1 unit	1CC
	3VL3725-2□□3□-□□□□		1	1 unit	1CC		**3VL3725-3□□3□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4731-2□□36-□□□□		1	1 unit	1CC		**3VL4731-3□□36-□□□□**		1	1 unit	1CC
	3VL4740-2□□36-□□□□		1	1 unit	1CC		**3VL4740-3□□36-□□□□**		1	1 unit	1CC
	3VL5763-2□□36-□□□□		1	1 unit	1CC		**3VL5763-3□□36-□□□□**		1	1 unit	1CC
	3VL6780-2□□36-□□□□		1	1 unit	1CC		**3VL6780-3□□36-□□□□**		1	1 unit	1CC
	3VL7710-2□□36-□□□□		1	1 unit	1CC		**3VL7710-3□□36-□□□□**		1	1 unit	1CC
	3VL7712-2□□36-□□□□		1	1 unit	1CC		**3VL7712-3□□36-□□□□**		1	1 unit	1CC
	3VL8716-2□□30-□□□□		1	1 unit	1CC		**3VL8716-3□□30-□□□□**		1	1 unit	1CC
	SE ME LE						**SE ME LE**				

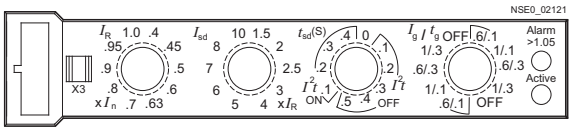
© Siemens 2019

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	SD	**I_{cu} up to 55 kA at 415 V, standard breaking capacity N** See "Overview".				(N)
							Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG
							Article No. supplement, see page 2/268; www.siemens.com/product?Article No.				
	A	A	A	A	A	d					

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, fixed short-circuit releases, ground-fault delay t_g = 0.1 ... 0.3 s, short-circuit delay t_{sd} = 0 ... 0.5 s, ground fault function (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
	100	40 ... 100	11 × I_n	1.5 ... 10 × I_R	0.6 ... 1 × I_n, OFF	**3VL2710-1□□3□-□□□□**	1	1 unit	1CC
	160	64 ... 160	11 × I_n	1.5 ... 10 × I_R	0.6 ... 1 × I_n, OFF	**3VL2716-1□□3□-□□□□**	1	1 unit	1CC
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
	250	100 ... 250	11 × I_n	1.5 ... 10 × I_R	0.6 ... 1 × I_n, OFF	**3VL3725-1□□3□-□□□□**	1	1 unit	1CC

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
	400	160 ... 400	11 × I_n	1.5 ... 10 × I_R	0.6 ... 1 × I_n, OFF	**3VL4740-1□□36-□□□□**	1	1 unit	1CC
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
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
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
	1250	500 ... 1250	11 × I_n	1.5 ... 10 × I_R	0.6 ... 1 × I_n, OFF	**3VL7712-1□□36-□□□□**	1	1 unit	1CC
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

• 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 2/303.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

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

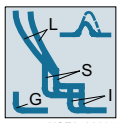
© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)				SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)				
	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG
d					d					
	3VL2706-2□□3□-□□□□		1	1 unit	1CC	**3VL2706-3□□3□-□□□□**		1	1 unit	1CC
	3VL2710-2□□3□-□□□□		1	1 unit	1CC	**3VL2710-3□□3□-□□□□**		1	1 unit	1CC
	3VL2716-2□□3□-□□□□		1	1 unit	1CC	**3VL2716-3□□3□-□□□□**		1	1 unit	1CC
	3VL3720-2□□3□-□□□□		1	1 unit	1CC	**3VL3720-3□□3□-□□□□**		1	1 unit	1CC
	3VL3725-2□□3□-□□□□		1	1 unit	1CC	**3VL3725-3□□3□-□□□□**		1	1 unit	1CC
	3 6					**3 6**				
	3VL4731-2□□36-□□□□		1	1 unit	1CC	**3VL4731-3□□36-□□□□**		1	1 unit	1CC
	3VL4740-2□□36-□□□□		1	1 unit	1CC	**3VL4740-3□□36-□□□□**		1	1 unit	1CC
	3VL5763-2□□36-□□□□		1	1 unit	1CC	**3VL5763-3□□36-□□□□**		1	1 unit	1CC
	3VL6780-2□□36-□□□□		1	1 unit	1CC	**3VL6780-3□□36-□□□□**		1	1 unit	1CC
	3VL7710-2□□36-□□□□		1	1 unit	1CC	**3VL7710-3□□36-□□□□**		1	1 unit	1CC
	3VL7712-2□□36-□□□□		1	1 unit	1CC	**3VL7712-3□□36-□□□□**		1	1 unit	1CC
	3VL8716-2□□30-□□□□		1	1 unit	1CC	**3VL8716-3□□30-□□□□**		1	1 unit	1CC
	SG MG					**SG MG**				

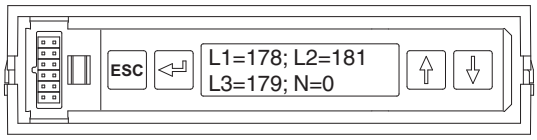
© Siemens 2019

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	SD	**I_{cu} up to 55 kA at 415 V, standard breaking capacity N** See "Overview". Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	A	A	A	d					

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

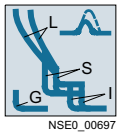
With adjustable overcurrent releases, adjustable short-circuit releases,
vectorial summation current formation, ground-fault delay t_g = 0.1 ... 0.5 s, short-circuit delay t_{sd} = 0 ... 0.5 s

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

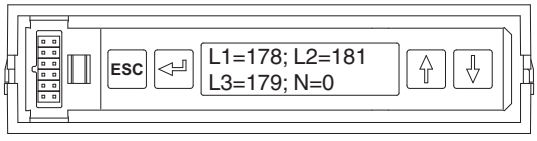
Connection type can be selected by assignment of the 12th position of the Article No.

• 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
	400	160 ... 400	11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	**3VL4740-1UL36-□□□□**	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	10 × I_n	1.5 ... 9 × I_R	0.4 ... 1 × I_n	**3VL5763-1UL36-□□□□**	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	8 × I_n	1.5 ... 7 × I_R	0.4 ... 1 × I_n	**3VL6780-1UL36-□□□□**	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	**3VL7710-1UL36-□□□□**	1	1 unit	1CC
	1250	500 ... 1250	11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	**3VL7712-1UL36-□□□□**	1	1 unit	1CC
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



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 transformers required in addition, see page 2/302.
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
	100	40 ... 100	11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	**3VL2710-1UM3□-□□□□**	1	1 unit	1CC
	160	64 ... 160	11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	**3VL2716-1UM3□-□□□□**	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	**3VL3720-1UM3□-□□□□**	1	1 unit	1CC
	250	100 ... 250	11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	**3VL3725-1UM3□-□□□□**	1	1 unit	1CC

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
	400	160 ... 400	11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	**3VL4740-1UM36-□□□□**	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	10 × I_n	1.5 ... 9 × I_R	0.4 ... 1 × I_n	**3VL5763-1UM36-□□□□**	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	8 × I_n	1.5 ... 7 × I_R	0.4 ... 1 × I_n	**3VL6780-1UM36-□□□□**	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	**3VL7710-1UM36-□□□□**	1	1 unit	1CC
	1250	500 ... 1250	11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	**3VL7712-1UM36-□□□□**	1	1 unit	1CC
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

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.

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

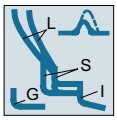
© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)				
	Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
d						d					
	3VL2706-2UL3□-□□□□		1	1 unit	1CC		**3VL2706-3UL3□-□□□□**		1	1 unit	1CC
	3VL2710-2UL3□-□□□□		1	1 unit	1CC		**3VL2710-3UL3□-□□□□**		1	1 unit	1CC
	3VL2716-2UL3□-□□□□		1	1 unit	1CC		**3VL2716-3UL3□-□□□□**		1	1 unit	1CC
	3VL3720-2UL3□-□□□□		1	1 unit	1CC		**3VL3720-3UL3□-□□□□**		1	1 unit	1CC
	3VL3725-2UL3□-□□□□		1	1 unit	1CC		**3VL3725-3UL3□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4731-2UL36-□□□□		1	1 unit	1CC		**3VL4731-3UL36-□□□□**		1	1 unit	1CC
	3VL4740-2UL36-□□□□		1	1 unit	1CC		**3VL4740-3UL36-□□□□**		1	1 unit	1CC
	3VL5763-2UL36-□□□□		1	1 unit	1CC		**3VL5763-3UL36-□□□□**		1	1 unit	1CC
	3VL6780-2UL36-□□□□		1	1 unit	1CC		**3VL6780-3UL36-□□□□**		1	1 unit	1CC
	3VL7710-2UL36-□□□□		1	1 unit	1CC		**3VL7710-3UL36-□□□□**		1	1 unit	1CC
	3VL7712-2UL36-□□□□		1	1 unit	1CC		**3VL7712-3UL36-□□□□**		1	1 unit	1CC
	3VL8716-2UL30-□□□□		1	1 unit	1CC		**3VL8716-3UL30-□□□□**		1	1 unit	1CC
	3VL2706-2UM3□-□□□□		1	1 unit	1CC		**3VL2706-3UM3□-□□□□**		1	1 unit	1CC
	3VL2710-2UM3□-□□□□		1	1 unit	1CC		**3VL2710-3UM3□-□□□□**		1	1 unit	1CC
	3VL2716-2UM3□-□□□□		1	1 unit	1CC		**3VL2716-3UM3□-□□□□**		1	1 unit	1CC
	3VL3720-2UM3□-□□□□		1	1 unit	1CC		**3VL3720-3UM3□-□□□□**		1	1 unit	1CC
	3VL3725-2UM3□-□□□□		1	1 unit	1CC		**3VL3725-3UM3□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4731-2UM36-□□□□		1	1 unit	1CC		**3VL4731-3UM36-□□□□**		1	1 unit	1CC
	3VL4740-2UM36-□□□□		1	1 unit	1CC		**3VL4740-3UM36-□□□□**		1	1 unit	1CC
	3VL5763-2UM36-□□□□		1	1 unit	1CC		**3VL5763-3UM36-□□□□**		1	1 unit	1CC
	3VL6780-2UM36-□□□□		1	1 unit	1CC		**3VL6780-3UM36-□□□□**		1	1 unit	1CC
	3VL7710-2UM36-□□□□		1	1 unit	1CC		**3VL7710-3UM36-□□□□**		1	1 unit	1CC
	3VL7712-2UM36-□□□□		1	1 unit	1CC		**3VL7712-3UM36-□□□□**		1	1 unit	1CC
	3VL8716-2UM30-□□□□		1	1 unit	1CC		**3VL8716-3UM30-□□□□**		1	1 unit	1CC

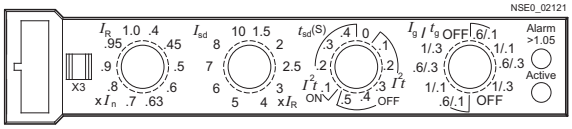
© Siemens 2019

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	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N (N) See "Overview". Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG
	A	A	A	A	A	d					

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, fixed short-circuit releases, external current transformers required in addition, see page 2/302.
Ground-fault delay t_g = 0.1 ... 0.3 s, short-circuit delay t_{sd} = 0 ... 0.5 s, ground fault function (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
	100	40 ... 100	11 × I_n	1.5 ... 10 × I_R	0.6 ... 1 × I_n, OFF	**3VL2710-1□□3□-□□□□**	1	1 unit	1CC
	160	64 ... 160	11 × I_n	1.5 ... 10 × I_R	0.6 ... 1 × I_n, OFF	**3VL2716-1□□3□-□□□□**	1	1 unit	1CC
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
	250	100 ... 250	11 × I_n	1.5 ... 10 × I_R	0.6 ... 1 × I_n, OFF	**3VL3725-1□□3□-□□□□**	1	1 unit	1CC

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
	400	160 ... 400	11 × I_n	1.5 ... 10 × I_R	0.6 ... 1 × I_n, OFF	**3VL4740-1□□36-□□□□**	1	1 unit	1CC
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
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
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
	1250	500 ... 1250	11 × I_n	1.5 ... 10 × I_R	0.6 ... 1 × I_n, OFF	**3VL7712-1□□36-□□□□**	1	1 unit	1CC
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

• 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 2/303.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

© Siemens 2019

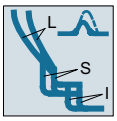
SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)				SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)			
	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG
d					d					
	3VL2706-2□□3□-□□□□		1	1 unit	1CC	**3VL2706-3□□3□-□□□□**		1	1 unit	1CC
	3VL2710-2□□3□-□□□□		1	1 unit	1CC	**3VL2710-3□□3□-□□□□**		1	1 unit	1CC
	3VL2716-2□□3□-□□□□		1	1 unit	1CC	**3VL2716-3□□3□-□□□□**		1	1 unit	1CC
	3VL3720-2□□3□-□□□□		1	1 unit	1CC	**3VL3720-3□□3□-□□□□**		1	1 unit	1CC
	3VL3725-2□□3□-□□□□		1	1 unit	1CC	**3VL3725-3□□3□-□□□□**		1	1 unit	1CC
	3 6					**3 6**				
	3VL4731-2□□36-□□□□		1	1 unit	1CC	**3VL4731-3□□36-□□□□**		1	1 unit	1CC
	3VL4740-2□□36-□□□□		1	1 unit	1CC	**3VL4740-3□□36-□□□□**		1	1 unit	1CC
	3VL5763-2□□36-□□□□		1	1 unit	1CC	**3VL5763-3□□36-□□□□**		1	1 unit	1CC
	3VL6780-2□□36-□□□□		1	1 unit	1CC	**3VL6780-3□□36-□□□□**		1	1 unit	1CC
	3VL7710-2□□36-□□□□		1	1 unit	1CC	**3VL7710-3□□36-□□□□**		1	1 unit	1CC
	3VL7712-2□□36-□□□□		1	1 unit	1CC	**3VL7712-3□□36-□□□□**		1	1 unit	1CC
	3VL8716-2□□30-□□□□		1	1 unit	1CC	**3VL8716-3□□30-□□□□**		1	1 unit	1CC
	SH MH					**SH MH**				

© Siemens 2019

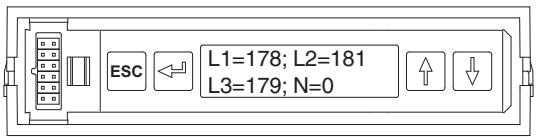
3-pole

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**	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N (N) See "Overview". Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	A	A	d					

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)

VL160/3VL2	63	25 ... 63	1.25 ... 11 × I_n	1.5 ... 10 × I_R	**3VL2706-1UH3□-□□□□**	1	1 unit	1CC
	100	40 ... 100	1.25 ... 11 × I_n	1.5 ... 10 × I_R	**3VL2710-1UH3□-□□□□**	1	1 unit	1CC
	160	64 ... 160	1.25 ... 11 × I_n	1.5 ... 10 × I_R	**3VL2716-1UH3□-□□□□**	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... 11 × I_n	1.5 ... 10 × I_R	**3VL3720-1UH3□-□□□□**	1	1 unit	1CC
	250	100 ... 250	1.25 ... 11 × I_n	1.5 ... 10 × I_R	**3VL3725-1UH3□-□□□□**	1	1 unit	1CC

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
	400	160 ... 400	1.25 ... 11 × I_n	1.5 ... 10 × I_R	**3VL4740-1UH36-□□□□**	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... 10 × I_n	1.5 ... 9 × I_R	**3VL5763-1UH36-□□□□**	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... 8 × I_n	1.5 ... 7 × I_R	**3VL6780-1UH36-□□□□**	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × I_n	1.5 ... 10 × I_R	**3VL7710-1UH36-□□□□**	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... 11 × I_n	1.5 ... 10 × I_R	**3VL7712-1UH36-□□□□**	1	1 unit	1CC
VL1600/3VL8[2)]	1600	640 ... 1600	1.25 ... 9 × I_n	1.5 ... 8 × I_R	**3VL8716-1UH30-□□□□**	1	1 unit	1CC

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.

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

© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)				
	Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
d						d					
	3VL2706-2UH3□-□□□□		1	1 unit	1CC		**3VL2706-3UH3□-□□□□**		1	1 unit	1CC
	3VL2710-2UH3□-□□□□		1	1 unit	1CC		**3VL2710-3UH3□-□□□□**		1	1 unit	1CC
	3VL2716-2UH3□-□□□□		1	1 unit	1CC		**3VL2716-3UH3□-□□□□**		1	1 unit	1CC
	3VL3720-2UH3□-□□□□		1	1 unit	1CC		**3VL3720-3UH3□-□□□□**		1	1 unit	1CC
	3VL3725-2UH3□-□□□□		1	1 unit	1CC		**3VL3725-3UH3□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4731-2UH36-□□□□		1	1 unit	1CC		**3VL4731-3UH36-□□□□**		1	1 unit	1CC
	3VL4740-2UH36-□□□□		1	1 unit	1CC		**3VL4740-3UH36-□□□□**		1	1 unit	1CC
	3VL5763-2UH36-□□□□		1	1 unit	1CC		**3VL5763-3UH36-□□□□**		1	1 unit	1CC
	3VL6780-2UH36-□□□□		1	1 unit	1CC		**3VL6780-3UH36-□□□□**		1	1 unit	1CC
	3VL7710-2UH36-□□□□		1	1 unit	1CC		**3VL7710-3UH36-□□□□**		1	1 unit	1CC
	3VL7712-2UH36-□□□□		1	1 unit	1CC		**3VL7712-3UH36-□□□□**		1	1 unit	1CC
	3VL8716-2UH30-□□□□		1	1 unit	1CC		**3VL8716-3UH30-□□□□**		1	1 unit	1CC

© Siemens 2019

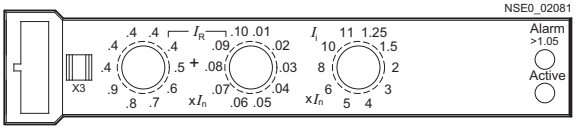
3-pole

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	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N (N) See "Overview". Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG
	A	A	A	d					

3-pole, fixed-mounted, for motor protection, 63 A to 500 A, Electronic Trip Units LI

NSE0_00943



ETU10M, LI function [1]
With thermal image, with fixed trip class t_C = 10, with phase failure sensitivity 40% I_R

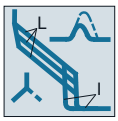
VL160/3VL2	63	25 ... 63	1.25 ... 11 × I_n	**3VL2706-1□□3□-□□□□**	1	1 unit	1CC
	100	40 ... 100	1.25 ... 11 × I_n	**3VL2710-1□□3□-□□□□**	1	1 unit	1CC
	160	64 ... 160	1.25 ... 11 × I_n	**3VL2716-1□□3□-□□□□**	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... 11 × I_n	**3VL3720-1□□3□-□□□□**	1	1 unit	1CC
	250	100 ... 250	1.25 ... 11 × I_n	**3VL3725-1□□3□-□□□□**	1	1 unit	1CC

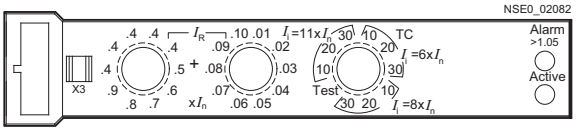
Connection type can be selected by assignment of the 12th position of the Article No.

• 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
VL630/3VL5	500	200 ... 500	1.25 ... 12.5 × I_n	**3VL5750-1□□36-□□□□**	1	1 unit	1CC

• Without communication preparation	**SP**
• With communication preparation	**MP**


NSE0_01419



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
	100	40 ... 100	6/8/11 × I_n	**3VL2710-1□□3□-□□□□**	1	1 unit	1CC
	160	64 ... 160	6/8/11 × I_n	**3VL2716-1□□3□-□□□□**	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	6/8/11 × I_n	**3VL3720-1□□3□-□□□□**	1	1 unit	1CC
	250	100 ... 250	6/8/11 × I_n	**3VL3725-1□□3□-□□□□**	1	1 unit	1CC

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
VL630/3VL5	500	200 ... 500	6/8/12.5 × I_n	**3VL5750-1□□36-□□□□**	1	1 unit	1CC

• 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 2/303.
- 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 2/17.

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

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

© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)				SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)			
	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG
d					d					
	3VL2706-2□□3□-□□□□		1	1 unit	1CC	**3VL2706-3□□3□-□□□□**		1	1 unit	1CC
	3VL2710-2□□3□-□□□□		1	1 unit	1CC	**3VL2710-3□□3□-□□□□**		1	1 unit	1CC
	3VL2716-2□□3□-□□□□		1	1 unit	1CC	**3VL2716-3□□3□-□□□□**		1	1 unit	1CC
	3VL3720-2□□3□-□□□□		1	1 unit	1CC	**3VL3720-3□□3□-□□□□**		1	1 unit	1CC
	3VL3725-2□□3□-□□□□		1	1 unit	1CC	**3VL3725-3□□3□-□□□□**		1	1 unit	1CC
	3 6					**3 6**				
	3VL4731-2□□36-□□□□		1	1 unit	1CC	**3VL4731-3□□36-□□□□**		1	1 unit	1CC
	3VL5750-2□□36-□□□□		1	1 unit	1CC	**3VL5750-3□□36-□□□□**		1	1 unit	1CC
	SP MP					**SP MP**				

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)				SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)			
	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/244	PU (UNIT, SET, M)	PS	PG
d					d					
	3VL2706-2□□3□-□□□□		1	1 unit	1CC	**3VL2706-3□□3□-□□□□**		1	1 unit	1CC
	3VL2710-2□□3□-□□□□		1	1 unit	1CC	**3VL2710-3□□3□-□□□□**		1	1 unit	1CC
	3VL2716-2□□3□-□□□□		1	1 unit	1CC	**3VL2716-3□□3□-□□□□**		1	1 unit	1CC
	3VL3720-2□□3□-□□□□		1	1 unit	1CC	**3VL3720-3□□3□-□□□□**		1	1 unit	1CC
	3VL3725-2□□3□-□□□□		1	1 unit	1CC	**3VL3725-3□□3□-□□□□**		1	1 unit	1CC
	3 6					**3 6**				
	3VL4731-2□□36-□□□□		1	1 unit	1CC	**3VL4731-3□□36-□□□□**		1	1 unit	1CC
	3VL5750-2□□36-□□□□		1	1 unit	1CC	**3VL5750-3□□36-□□□□**		1	1 unit	1CC
	SS MS LS					**SS MS LS**				

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

© Siemens 2019

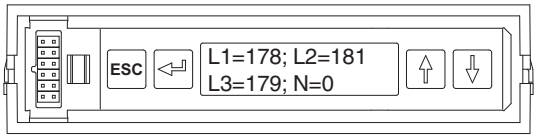
Product discontinuation

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	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N (N) See "Overview". Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	A	d					

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 with 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
	100	40 ... 100	1.25 ... 11 × I_n	**3VL2710-1UP3□-□□□□**	1	1 unit	1CC
	160	64 ... 160	1.25 ... 11 × I_n	**3VL2716-1UP3□-□□□□**	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... 11 × I_n	**3VL3720-1UP3□-□□□□**	1	1 unit	1CC
	250	100 ... 250	1.25 ... 11 × I_n	**3VL3725-1UP3□-□□□□**	1	1 unit	1CC

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
VL630/3VL5	500	250 ... 500	1.25 ... 12.5 × I_n	**3VL5750-1UP36-□□□□**	1	1 unit	1CC

[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 2/17.

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

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

© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)				
	Article No. Article No. supplement, see page 2/268; d www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		Article No. Article No. supplement, see page 2/268; d www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	3VL2706-2UP3□-□□□□		1	1 unit	1CC		**3VL2706-3UP3□-□□□□**		1	1 unit	1CC
	3VL2710-2UP3□-□□□□		1	1 unit	1CC		**3VL2710-3UP3□-□□□□**		1	1 unit	1CC
	3VL2716-2UP3□-□□□□		1	1 unit	1CC		**3VL2716-3UP3□-□□□□**		1	1 unit	1CC
	3VL3720-2UP3□-□□□□		1	1 unit	1CC		**3VL3720-3UP3□-□□□□**		1	1 unit	1CC
	3VL3725-2UP3□-□□□□		1	1 unit	1CC		**3VL3725-3UP3□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4731-2UP36-□□□□		1	1 unit	1CC		**3VL4731-3UP36-□□□□**		1	1 unit	1CC
	3VL5750-2UP36-□□□□		1	1 unit	1CC		**3VL5750-3UP36-□□□□**		1	1 unit	1CC

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

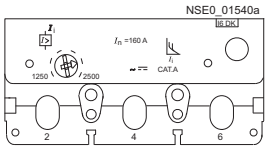
© Siemens 2019

3-pole

Type	Rated current I_n	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N (N) See "Overview". Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	d					

3-pole, fixed-mounted, for starter protection, 63 A to 500 A, magnetic release 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
	100	750 ... 1500	**3VL2710-1DK3□-□□□□**	1	1 unit	1CC
	160	1250 ... 2500	**3VL2716-1DK3□-□□□□**	1	1 unit	1CC
VL250/3VL3	250	1750 ... 3500	**3VL3725-1DK3□-□□□□**	1	1 unit	1CC

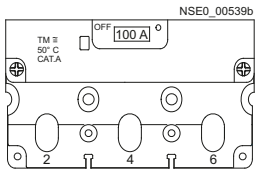
Connection type can be selected by assignment of the 12th position of the Article No.

• Connection with box terminal	**3**
• Connection with screw terminal [2]	**6**

VL400/3VL4	200	1250 ... 2500	**3VL4720-1DK36-□□□□**	1	1 unit	1CC
	250	2000 ... 4000	**3VL4725-1DK36-□□□□**	1	1 unit	1CC
	315	2000 ... 4000	**3VL4731-1DK36-□□□□**	1	1 unit	1CC
VL630/3VL5	315	2000 ... 4000	**3VL5731-1DK36-□□□□**	1	1 unit	1CC
	500	3250 ... 6300	**3VL5750-1DK36-□□□□**	1	1 unit	1CC

3-pole, fixed-mounted, for safe disconnection, 100 A to 1600 A, magnetic release I

NSE0_00708


NSE0_00539b

Non-automatic molded case circuit breakers [3], ***I function***
Without thermal overcurrent release, with fixed short-circuit release (for intrinsic protection only)

VL160X/3VL1	100	1800	**3VL1710-1DE3□-□□□□**	1	1 unit	1CC
	160	1800	**3VL1716-1DE3□-□□□□**	1	1 unit	1CC
VL160/3VL2	100	2500	**3VL2710-1DE3□-□□□□**	1	1 unit	1CC
	160	2500	**3VL2716-1DE3□-□□□□**	1	1 unit	1CC
VL250/3VL3	250	3500	**3VL3725-1DE3□-□□□□**	1	1 unit	1CC

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 with 3VL1 [2]	**6**

VL400/3VL4	400	4000	**3VL4740-1DE36-□□□□**	1	1 unit	1CC
VL630/3VL5	630	6300	**3VL5763-1DE36-□□□□**	1	1 unit	1CC
VL800/3VL6	800	6500	**3VL6780-1DE36-□□□□**	1	1 unit	1CC
VL1250/3VL7	1250	12000	**3VL7712-1DE36-□□□□**	1	1 unit	1CC
VL1600/3VL8 [4]	1600	14400	**3VL8716-1DE30-□□□□**	1	1 unit	1CC

For further versions, including for short-circuit and ground-fault protection, see pages 2/224 to 2/241.

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 2/218.

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.

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

© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)				
	Article No. Article No. supplement, see page 2/268; d www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		Article No. Article No. supplement, see page 2/268; d www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	3VL2706-2DK3□-□□□□		1	1 unit	1CC		**3VL2706-3DK3□-□□□□**		1	1 unit	1CC
	3VL2710-2DK3□-□□□□		1	1 unit	1CC		**3VL2710-3DK3□-□□□□**		1	1 unit	1CC
	3VL2716-2DK3□-□□□□		1	1 unit	1CC		**3VL2716-3DK3□-□□□□**		1	1 unit	1CC
	3VL3725-2DK3□-□□□□		1	1 unit	1CC		**3VL3725-3DK3□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4720-2DK36-□□□□		1	1 unit	1CC		**3VL4720-3DK36-□□□□**		1	1 unit	1CC
	3VL4725-2DK36-□□□□		1	1 unit	1CC		**3VL4725-3DK36-□□□□**		1	1 unit	1CC
	3VL4731-2DK36-□□□□		1	1 unit	1CC		**3VL4731-3DK36-□□□□**		1	1 unit	1CC
	3VL5731-2DK36-□□□□		1	1 unit	1CC		**3VL5731-3DK36-□□□□**		1	1 unit	1CC
	3VL5750-2DK36-□□□□		1	1 unit	1CC		**3VL5750-3DK36-□□□□**		1	1 unit	1CC
	3VL1710-2DE3□-□□□□		1	1 unit	1CC		**--**				
	3VL1716-2DE3□-□□□□		1	1 unit	1CC		**--**				
	3VL2710-2DE3□-□□□□		1	1 unit	1CC		**3VL2710-3DE3□-□□□□**		1	1 unit	1CC
	3VL2716-2DE3□-□□□□		1	1 unit	1CC		**3VL2716-3DE3□-□□□□**		1	1 unit	1CC
	3VL3725-2DE3□-□□□□		1	1 unit	1CC		**3VL3725-3DE3□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4740-2DE36-□□□□		1	1 unit	1CC		**3VL4740-3DE36-□□□□**		1	1 unit	1CC
	3VL5763-2DE36-□□□□		1	1 unit	1CC		**3VL5763-3DE36-□□□□**		1	1 unit	1CC
	3VL6780-2DE36-□□□□		1	1 unit	1CC		**3VL6780-3DE36-□□□□**		1	1 unit	1CC
	3VL7712-2DE36-□□□□		1	1 unit	1CC		**3VL7712-3DE36-□□□□**		1	1 unit	1CC
	3VL8716-2DE30-□□□□		1	1 unit	1CC		**3VL8716-3DE30-□□□□**		1	1 unit	1CC

© Siemens 2019

Article No. supplement (for complete Article No., see pages 2/224 to 2/241) **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	✓	✓	✓	✓	✓	✓	✓	--	✓	✓	✓	✓	✓

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

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

© Siemens 2019

Article No. supplement (for complete Article No., see pages 2/224 to 2/241) **3VL.7 ..-.□□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	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	--	--

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

© Siemens 2019

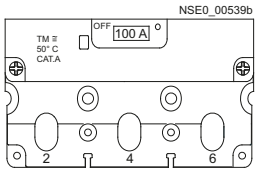
2

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	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview". (N) Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	A	d					

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

NSE0_00695



Line protection, TM, LI function

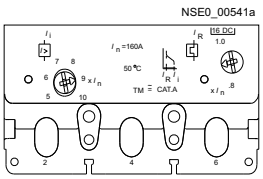
With fixed thermal overcurrent releases, fixed short-circuit releases without overcurrent and short-circuit protection in the 4th pole (N)

VL160X/3VL1	16	16	300	**3VL1796-1EH4□-□□□□**	1	1 unit	1CC
	20	20	300	**3VL1702-1EH4□-□□□□**	1	1 unit	1CC
	25	25	300	**3VL1725-1EH4□-□□□□**	1	1 unit	1CC
	32	32	300	**3VL1703-1EH4□-□□□□**	1	1 unit	1CC
	40	40	600	**3VL1704-1EH4□-□□□□**	1	1 unit	1CC
	50	50	600	**3VL1705-1EH4□-□□□□**	1	1 unit	1CC
	63	63	600	**3VL1706-1EH4□-□□□□**	1	1 unit	1CC
	80	80	1000	**3VL1708-1EH4□-□□□□**	1	1 unit	1CC
	100	100	1000	**3VL1710-1EH4□-□□□□**	1	1 unit	1CC
	125	125	1000	**3VL1712-1EH4□-□□□□**	1	1 unit	1CC
	160	160	1500	**3VL1716-1EH4□-□□□□**	1	1 unit	1CC

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 protection in the 4th pole (N)

VL160/3VL2	50	40 ... 50	300 ... 600	**3VL2705-1EJ4□-□□□□**	1	1 unit	1CC
	63	50 ... 63	300 ... 600	**3VL2706-1EJ4□-□□□□**	1	1 unit	1CC
	80	63 ... 80	400 ... 800	**3VL2708-1EJ4□-□□□□**	1	1 unit	1CC
	100	80 ... 100	500 ... 1000	**3VL2710-1EJ4□-□□□□**	1	1 unit	1CC
	125	100 ... 125	625 ... 1250	**3VL2712-1EJ4□-□□□□**	1	1 unit	1CC
	160	125 ... 160	800 ... 1600	**3VL2716-1EJ4□-□□□□**	1	1 unit	1CC
VL250/3VL3	200	160 ... 200	1000 ... 2000	**3VL3720-1EJ4□-□□□□**	1	1 unit	1CC
	250	200 ... 250	1250 ... 2500	**3VL3725-1EJ4□-□□□□**	1	1 unit	1CC

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
	250	200 ... 250	1250 ... 2500	**3VL4725-1EJ46-□□□□**	1	1 unit	1CC
	315	250 ... 315	1575 ... 3150	**3VL4731-1EJ46-□□□□**	1	1 unit	1CC
	400	320 ... 400	2000 ... 4000	**3VL4740-1EJ46-□□□□**	1	1 unit	1CC
VL630/3VL5	315	250 ... 315	1575 ... 3150	**3VL5731-1EJ46-□□□□**	1	1 unit	1CC
	400	320 ... 400	2000 ... 4000	**3VL5740-1EJ46-□□□□**	1	1 unit	1CC
	500	400 ... 500	2500 ... 5000	**3VL5750-1EJ46-□□□□**	1	1 unit	1CC
	630	500 ... 630	3150 ... 6300	**3VL5763-1EJ46-□□□□**	1	1 unit	1CC

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

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

© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)				
	Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
d						d					
	3VL1796-2EH4□-□□□□		1	1 unit	1CC		--				
	3VL1702-2EH4□-□□□□		1	1 unit	1CC		--				
	3VL1725-2EH4□-□□□□		1	1 unit	1CC		--				
	3VL1703-2EH4□-□□□□		1	1 unit	1CC		--				
	3VL1704-2EH4□-□□□□		1	1 unit	1CC		--				
	3VL1705-2EH4□-□□□□		1	1 unit	1CC		--				
	3VL1706-2EH4□-□□□□		1	1 unit	1CC		--				
	3VL1708-2EH4□-□□□□		1	1 unit	1CC		--				
	3VL1710-2EH4□-□□□□		1	1 unit	1CC		--				
	3VL1712-2EH4□-□□□□		1	1 unit	1CC		--				
	3VL1716-2EH4□-□□□□		1	1 unit	1CC		--				
	3 6										
	3VL2705-2EJ4□-□□□□		1	1 unit	1CC		**3VL2705-3EJ4□-□□□□**		1	1 unit	1CC
	3VL2706-2EJ4□-□□□□		1	1 unit	1CC		**3VL2706-3EJ4□-□□□□**		1	1 unit	1CC
	3VL2708-2EJ4□-□□□□		1	1 unit	1CC		**3VL2708-3EJ4□-□□□□**		1	1 unit	1CC
	3VL2710-2EJ4□-□□□□		1	1 unit	1CC		**3VL2710-3EJ4□-□□□□**		1	1 unit	1CC
	3VL2712-2EJ4□-□□□□		1	1 unit	1CC		**3VL2712-3EJ4□-□□□□**		1	1 unit	1CC
	3VL2716-2EJ4□-□□□□		1	1 unit	1CC		**3VL2716-3EJ4□-□□□□**		1	1 unit	1CC
	3VL3720-2EJ4□-□□□□		1	1 unit	1CC		**3VL3720-3EJ4□-□□□□**		1	1 unit	1CC
	3VL3725-2EJ4□-□□□□		1	1 unit	1CC		**3VL3725-3EJ4□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4720-2EJ46-□□□□		1	1 unit	1CC		**3VL4720-3EJ46-□□□□**		1	1 unit	1CC
	3VL4725-2EJ46-□□□□		1	1 unit	1CC		**3VL4725-3EJ46-□□□□**		1	1 unit	1CC
	3VL4731-2EJ46-□□□□		1	1 unit	1CC		**3VL4731-3EJ46-□□□□**		1	1 unit	1CC
	3VL4740-2EJ46-□□□□		1	1 unit	1CC		**3VL4740-3EJ46-□□□□**		1	1 unit	1CC
	3VL5731-2EJ46-□□□□		1	1 unit	1CC		**3VL5731-3EJ46-□□□□**		1	1 unit	1CC
	3VL5740-2EJ46-□□□□		1	1 unit	1CC		**3VL5740-3EJ46-□□□□**		1	1 unit	1CC
	3VL5750-2EJ46-□□□□		1	1 unit	1CC		**3VL5750-3EJ46-□□□□**		1	1 unit	1CC
	3VL5763-2EJ46-□□□□		1	1 unit	1CC		**3VL5763-3EJ46-□□□□**		1	1 unit	1CC

© Siemens 2019

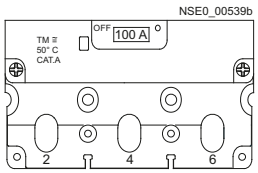
4-pole

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	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview". (N)			
					Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS / PG
	A	A	A	d				

4-pole, fixed-mounted, for line protection, 16 A to 160 A, thermal-magnetic overcurrent releases LIN

NSE0_00695



Line protection, TM, LIN function

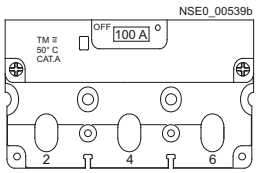
With fixed thermal overcurrent releases, fixed short-circuit releases with "N" overcurrent and short-circuit release
N protection = 100%

VL160X/3VL1	16	16	300	**3VL1796-1EA4□-□□□□**	1	1 unit	1CC
	20	20	300	**3VL1702-1EA4□-□□□□**	1	1 unit	1CC
	25	25	300	**3VL1725-1EA4□-□□□□**	1	1 unit	1CC
	32	32	300	**3VL1703-1EA4□-□□□□**	1	1 unit	1CC
	40	40	600	**3VL1704-1EA4□-□□□□**	1	1 unit	1CC
	50	50	600	**3VL1705-1EA4□-□□□□**	1	1 unit	1CC
	63	63	600	**3VL1706-1EA4□-□□□□**	1	1 unit	1CC
	80	80	1000	**3VL1708-1EA4□-□□□□**	1	1 unit	1CC
	100	100	1000	**3VL1710-1EA4□-□□□□**	1	1 unit	1CC
	125	125	1000	**3VL1712-1EL4□-□□□□**	1	1 unit	1CC
	160	160	1500	**3VL1716-1EL4□-□□□□**	1	1 unit	1CC

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 fixed thermal overcurrent releases, fixed short-circuit releases with "N" overcurrent and short-circuit release
N protection = 60%

VL160X/3VL1	125	125	1000	**3VL1712-1EA4□-□□□□**	1	1 unit	1CC
	160	160	1500	**3VL1716-1EA4□-□□□□**	1	1 unit	1CC

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**

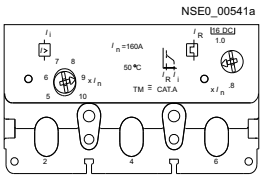
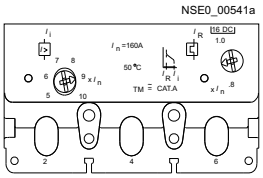
[1)] **When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.**

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

© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)				
	Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
d						d					
	3VL1796-2EA4□-□□□□		1	1 unit	1CC		--				
	3VL1702-2EA4□-□□□□		1	1 unit	1CC		--				
	3VL1725-2EA4□-□□□□		1	1 unit	1CC		--				
	3VL1703-2EA4□-□□□□		1	1 unit	1CC		--				
	3VL1704-2EA4□-□□□□		1	1 unit	1CC		--				
	3VL1705-2EA4□-□□□□		1	1 unit	1CC		--				
	3VL1706-2EA4□-□□□□		1	1 unit	1CC		--				
	3VL1708-2EA4□-□□□□		1	1 unit	1CC		--				
	3VL1710-2EA4□-□□□□		1	1 unit	1CC		--				
	3VL1712-2EL4□-□□□□		1	1 unit	1CC		--				
	3VL1716-2EL4□-□□□□		1	1 unit	1CC		--				
	3 **6**										
	3VL1712-2EA4□-□□□□		1	1 unit	1CC		--				
	3VL1716-2EA4□-□□□□		1	1 unit	1CC		--				
	3 **6**										

© Siemens 2019

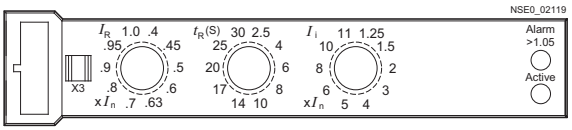
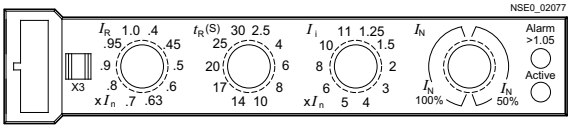
Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	A	d	Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.				
4-pole, fixed-mounted, for line protection, 16 A to 630 A, thermal-magnetic overcurrent releases LIN									
					NSE0_00541a  NSE0_00691 				
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
	63	50 ... 63	300 ... 600		**3VL2706-1EM4□-□□□□**		1	1 unit	1CC
	80	63 ... 80	400 ... 800		**3VL2708-1EM4□-□□□□**		1	1 unit	1CC
	100	80 ... 100	500 ... 1000		**3VL2710-1EM4□-□□□□**		1	1 unit	1CC
	125	100 ... 125	625 ... 1250		**3VL2712-1EM4□-□□□□**		1	1 unit	1CC
	160	125 ... 160	800 ... 1600		**3VL2716-1EM4□-□□□□**		1	1 unit	1CC
VL250/3VL3	200	160 ... 200	1000 ... 2000		**3VL3720-1EM4□-□□□□**		1	1 unit	1CC
	250	200 ... 250	1250 ... 2500		**3VL3725-1EM4□-□□□□**		1	1 unit	1CC
					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
	250	200 ... 250	1250 ... 2500		**3VL4725-1EM46-□□□□**		1	1 unit	1CC
	315	250 ... 315	1575 ... 3150		**3VL4731-1EM46-□□□□**		1	1 unit	1CC
	400	320 ... 400	2000 ... 4000		**3VL4740-1EM46-□□□□**		1	1 unit	1CC
VL630/3VL5	315	250 ... 315	1575 ... 3150		**3VL5731-1EM46-□□□□**		1	1 unit	1CC
	400	320 ... 400	2000 ... 4000		**3VL5740-1EM46-□□□□**		1	1 unit	1CC
	500	400 ... 500	2500 ... 5000		**3VL5750-1EM46-□□□□**		1	1 unit	1CC
	630	500 ... 630	3150 ... 6300		**3VL5763-1EM46-□□□□**		1	1 unit	1CC
					NSE0_00541a  NSE0_00691 				
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
	160	125 ... 160	800 ... 1600		**3VL2716-1EC4□-□□□□**		1	1 unit	1CC
VL250/3VL3	200	160 ... 200	1000 ... 2000		**3VL3720-1EC4□-□□□□**		1	1 unit	1CC
	250	200 ... 250	1250 ... 2500		**3VL3725-1EC4□-□□□□**		1	1 unit	1CC
					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
	250	200 ... 250	1250 ... 2500		**3VL4725-1EC46-□□□□**		1	1 unit	1CC
	315	250 ... 315	1575 ... 3150		**3VL4731-1EC46-□□□□**		1	1 unit	1CC
	400	320 ... 400	2000 ... 4000		**3VL4740-1EC46-□□□□**		1	1 unit	1CC
VL630/3VL5	315	250 ... 315	1575 ... 3150		**3VL5731-1EC46-□□□□**		1	1 unit	1CC
	400	320 ... 400	2000 ... 4000		**3VL5740-1EC46-□□□□**		1	1 unit	1CC
	500	400 ... 500	2500 ... 5000		**3VL5750-1EC46-□□□□**		1	1 unit	1CC
	630	500 ... 630	3150 ... 6300		**3VL5763-1EC46-□□□□**		1	1 unit	1CC

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

© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)				
	Article No. Article No. supplement, see page 2/268; d www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		Article No. Article No. supplement, see page 2/268; d www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	3VL2705-2EM4□-□□□□		1	1 unit	1CC		**3VL2705-3EM4□-□□□□**		1	1 unit	1CC
	3VL2706-2EM4□-□□□□		1	1 unit	1CC		**3VL2706-3EM4□-□□□□**		1	1 unit	1CC
	3VL2708-2EM4□-□□□□		1	1 unit	1CC		**3VL2708-3EM4□-□□□□**		1	1 unit	1CC
	3VL2710-2EM4□-□□□□		1	1 unit	1CC		**3VL2710-3EM4□-□□□□**		1	1 unit	1CC
	3VL2712-2EM4□-□□□□		1	1 unit	1CC		**3VL2712-3EM4□-□□□□**		1	1 unit	1CC
	3VL2716-2EM4□-□□□□		1	1 unit	1CC		**3VL2716-3EM4□-□□□□**		1	1 unit	1CC
	3VL3720-2EM4□-□□□□		1	1 unit	1CC		**3VL3720-3EM4□-□□□□**		1	1 unit	1CC
	3VL3725-2EM4□-□□□□		1	1 unit	1CC		**3VL3725-3EM4□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4720-2EM46-□□□□		1	1 unit	1CC		**3VL4720-3EM46-□□□□**		1	1 unit	1CC
	3VL4725-2EM46-□□□□		1	1 unit	1CC		**3VL4725-3EM46-□□□□**		1	1 unit	1CC
	3VL4731-2EM46-□□□□		1	1 unit	1CC		**3VL4731-3EM46-□□□□**		1	1 unit	1CC
	3VL4740-2EM46-□□□□		1	1 unit	1CC		**3VL4740-3EM46-□□□□**		1	1 unit	1CC
	3VL5731-2EM46-□□□□		1	1 unit	1CC		**3VL5731-3EM46-□□□□**		1	1 unit	1CC
	3VL5740-2EM46-□□□□		1	1 unit	1CC		**3VL5740-3EM46-□□□□**		1	1 unit	1CC
	3VL5750-2EM46-□□□□		1	1 unit	1CC		**3VL5750-3EM46-□□□□**		1	1 unit	1CC
	3VL5763-2EM46-□□□□		1	1 unit	1CC		**3VL5763-3EM46-□□□□**		1	1 unit	1CC
	3VL2712-2EC4□-□□□□		1	1 unit	1CC		**3VL2712-3EC4□-□□□□**		1	1 unit	1CC
	3VL2716-2EC4□-□□□□		1	1 unit	1CC		**3VL2716-3EC4□-□□□□**		1	1 unit	1CC
	3VL3720-2EC4□-□□□□		1	1 unit	1CC		**3VL3720-3EC4□-□□□□**		1	1 unit	1CC
	3VL3725-2EC4□-□□□□		1	1 unit	1CC		**3VL3725-3EC4□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4720-2EC46-□□□□		1	1 unit	1CC		**3VL4720-3EC46-□□□□**		1	1 unit	1CC
	3VL4725-2EC46-□□□□		1	1 unit	1CC		**3VL4725-3EC46-□□□□**		1	1 unit	1CC
	3VL4731-2EC46-□□□□		1	1 unit	1CC		**3VL4731-3EC46-□□□□**		1	1 unit	1CC
	3VL4740-2EC46-□□□□		1	1 unit	1CC		**3VL4740-3EC46-□□□□**		1	1 unit	1CC
	3VL5731-2EC46-□□□□		1	1 unit	1CC		**3VL5731-3EC46-□□□□**		1	1 unit	1CC
	3VL5740-2EC46-□□□□		1	1 unit	1CC		**3VL5740-3EC46-□□□□**		1	1 unit	1CC
	3VL5750-2EC46-□□□□		1	1 unit	1CC		**3VL5750-3EC46-□□□□**		1	1 unit	1CC
	3VL5763-2EC46-□□□□		1	1 unit	1CC		**3VL5763-3EC46-□□□□**		1	1 unit	1CC

© Siemens 2019

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	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N (N) See "Overview". Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/266	PU (UNIT, SET, M)	PS	PG
	A	A	A	d					
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
	100	40 ... 100	1.25 ... 11 × I_n		**3VL2710-1□□4□-□□□□**		1	1 unit	1CC
	160	64 ... 160	1.25 ... 11 × I_n		**3VL2716-1□□4□-□□□□**		1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... 11 × I_n		**3VL3720-1□□4□-□□□□**		1	1 unit	1CC
	250	100 ... 250	1.25 ... 11 × I_n		**3VL3725-1□□4□-□□□□**		1	1 unit	1CC
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
	400	160 ... 400	1.25 ... 11 × I_n		**3VL4740-1□□46-□□□□**		1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... 10 × I_n		**3VL5763-1□□46-□□□□**		1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... 8 × I_n		**3VL6780-1□□46-□□□□**		1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × I_n		**3VL7710-1□□46-□□□□**		1	1 unit	1CC
	1250	500 ... 1250	1.25 ... 11 × I_n		**3VL7712-1□□46-□□□□**		1	1 unit	1CC
VL1600/3VL8[2]	1600	640 ... 1600	1.25 ... 9 × I_n		**3VL8716-1□□40-□□□□**		1	1 unit	1CC
• 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
	100	40 ... 100	1.25 ... 11 × I_n		**3VL2710-1□□4□-□□□□**		1	1 unit	1CC
	160	64 ... 160	1.25 ... 11 × I_n		**3VL2716-1□□4□-□□□□**		1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... 11 × I_n		**3VL3720-1□□4□-□□□□**		1	1 unit	1CC
	250	100 ... 250	1.25 ... 11 × I_n		**3VL3725-1□□4□-□□□□**		1	1 unit	1CC
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**[1]				
VL400/3VL4	315	128 ... 315	1.25 ... 11 × I_n		**3VL4731-1□□46-□□□□**		1	1 unit	1CC
	400	160 ... 400	1.25 ... 11 × I_n		**3VL4740-1□□46-□□□□**		1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... 10 × I_n		**3VL5763-1□□46-□□□□**		1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... 8 × I_n		**3VL6780-1□□46-□□□□**		1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × I_n		**3VL7710-1□□46-□□□□**		1	1 unit	1CC
	1250	500 ... 1250	1.25 ... 11 × I_n		**3VL7712-1□□46-□□□□**		1	1 unit	1CC
VL1600/3VL8[2]	1600	640 ... 1600	1.25 ... 9 × I_n		**3VL8716-1□□40-□□□□**		1	1 unit	1CC
• Without communication preparation					**TA**				
• With communication preparation					**NA**				
• Marine engineering-certified LRS, DNV, GL and BV (not communication-					**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.

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

© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)				SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)			
	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/266	PU (UNIT, SET, M)	PS	PG		Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/266	PU (UNIT, SET, M)	PS	PG
d					d						
	3VL2706-2□□4□-□□□□		1	1 unit	1CC		**3VL2706-3□□4□-□□□□**		1	1 unit	1CC
	3VL2710-2□□4□-□□□□		1	1 unit	1CC		**3VL2710-3□□4□-□□□□**		1	1 unit	1CC
	3VL2716-2□□4□-□□□□		1	1 unit	1CC		**3VL2716-3□□4□-□□□□**		1	1 unit	1CC
	3VL3720-2□□4□-□□□□		1	1 unit	1CC		**3VL3720-3□□4□-□□□□**		1	1 unit	1CC
	3VL3725-2□□4□-□□□□		1	1 unit	1CC		**3VL3725-3□□4□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4731-2□□46-□□□□		1	1 unit	1CC		**3VL4731-3□□46-□□□□**		1	1 unit	1CC
	3VL4740-2□□46-□□□□		1	1 unit	1CC		**3VL4740-3□□46-□□□□**		1	1 unit	1CC
	3VL5763-2□□46-□□□□		1	1 unit	1CC		**3VL5763-3□□46-□□□□**		1	1 unit	1CC
	3VL6780-2□□46-□□□□		1	1 unit	1CC		**3VL6780-3□□46-□□□□**		1	1 unit	1CC
	3VL7710-2□□46-□□□□		1	1 unit	1CC		**3VL7710-3□□46-□□□□**		1	1 unit	1CC
	3VL7712-2□□46-□□□□		1	1 unit	1CC		**3VL7712-3□□46-□□□□**		1	1 unit	1CC
	3VL8716-2□□40-□□□□		1	1 unit	1CC		**3VL8716-3□□40-□□□□**		1	1 unit	1CC
	TB NB						**TB NB**				

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)				SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)			
	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/266	PU (UNIT, SET, M)	PS	PG		Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/266	PU (UNIT, SET, M)	PS	PG
d					d						
	3VL2706-2□□4□-□□□□		1	1 unit	1CC		**3VL2706-3□□4□-□□□□**		1	1 unit	1CC
	3VL2710-2□□4□-□□□□		1	1 unit	1CC		**3VL2710-3□□4□-□□□□**		1	1 unit	1CC
	3VL2716-2□□4□-□□□□		1	1 unit	1CC		**3VL2716-3□□4□-□□□□**		1	1 unit	1CC
	3VL3720-2□□4□-□□□□		1	1 unit	1CC		**3VL3720-3□□4□-□□□□**		1	1 unit	1CC
	3VL3725-2□□4□-□□□□		1	1 unit	1CC		**3VL3725-3□□4□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4731-2□□46-□□□□		1	1 unit	1CC		**3VL4731-3□□46-□□□□**		1	1 unit	1CC
	3VL4740-2□□46-□□□□		1	1 unit	1CC		**3VL4740-3□□46-□□□□**		1	1 unit	1CC
	3VL5763-2□□46-□□□□		1	1 unit	1CC		**3VL5763-3□□46-□□□□**		1	1 unit	1CC
	3VL6780-2□□46-□□□□		1	1 unit	1CC		**3VL6780-3□□46-□□□□**		1	1 unit	1CC
	3VL7710-2□□46-□□□□		1	1 unit	1CC		**3VL7710-3□□46-□□□□**		1	1 unit	1CC
	3VL7712-2□□46-□□□□		1	1 unit	1CC		**3VL7712-3□□46-□□□□**		1	1 unit	1CC
	3VL8716-2□□40-□□□□		1	1 unit	1CC		**3VL8716-3□□40-□□□□**		1	1 unit	1CC
	TA NA LA						**TA NA LA**				

Communication:
- For accessories, see page 2/303.

- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

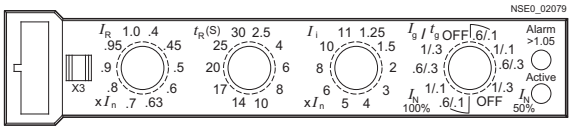
Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

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	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview". (N)			
						Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/266	PU (UNIT, SET, M)	PS	PG
	A	A	A	A	d					
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 function (G) can be switched off with overcurrent and short-circuit protection 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
	100	40 ... 100	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL2710-1□□4□-□□□□**	1	1 unit	1CC
	160	64 ... 160	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL2716-1□□4□-□□□□**	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL3720-1□□4□-□□□□**	1	1 unit	1CC
	250	100 ... 250	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL3725-1□□4□-□□□□**	1	1 unit	1CC

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
	400	160 ... 400	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL4740-1□□46-□□□□**	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... 10 × I_n	0.6 ... 1 × I_n, OFF	**3VL5763-1□□46-□□□□**	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... 8 × I_n	0.6 ... 1 × I_n, OFF	**3VL6780-1□□46-□□□□**	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL7710-1□□46-□□□□**	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... 11 × I_n	0.6 ... 1 × I_n, OFF	**3VL7712-1□□46-□□□□**	1	1 unit	1CC
VL1600/3VL8[2)]	1600	640 ... 1600	1.25 ... 9 × I_n	0.6 ... 1 × I_n, OFF	**3VL8716-1□□40-□□□□**	1	1 unit	1CC

• 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 2/303.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

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

© Siemens 2019

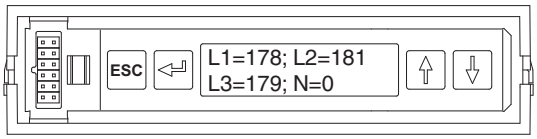
SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H				(H)	SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L				(L)
	Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/266	PU (UNIT, SET, M)	PS	PG		Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/266	PU (UNIT, SET, M)	PS	PG
d						d					
	3VL2706-2□□4□-□□□□		1	1 unit	1CC		**3VL2706-3□□4□-□□□□**		1	1 unit	1CC
	3VL2710-2□□4□-□□□□		1	1 unit	1CC		**3VL2710-3□□4□-□□□□**		1	1 unit	1CC
	3VL2716-2□□4□-□□□□		1	1 unit	1CC		**3VL2716-3□□4□-□□□□**		1	1 unit	1CC
	3VL3720-2□□4□-□□□□		1	1 unit	1CC		**3VL3720-3□□4□-□□□□**		1	1 unit	1CC
	3VL3725-2□□4□-□□□□		1	1 unit	1CC		**3VL3725-3□□4□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4731-2□□46-□□□□		1	1 unit	1CC		**3VL4731-3□□46-□□□□**		1	1 unit	1CC
	3VL4740-2□□46-□□□□		1	1 unit	1CC		**3VL4740-3□□46-□□□□**		1	1 unit	1CC
	3VL5763-2□□46-□□□□		1	1 unit	1CC		**3VL5763-3□□46-□□□□**		1	1 unit	1CC
	3VL6780-2□□46-□□□□		1	1 unit	1CC		**3VL6780-3□□46-□□□□**		1	1 unit	1CC
	3VL7710-2□□46-□□□□		1	1 unit	1CC		**3VL7710-3□□46-□□□□**		1	1 unit	1CC
	3VL7712-2□□46-□□□□		1	1 unit	1CC		**3VL7712-3□□46-□□□□**		1	1 unit	1CC
	3VL8716-2□□40-□□□□		1	1 unit	1CC		**3VL8716-3□□40-□□□□**		1	1 unit	1CC
	TN NN						**TN NN**				

© Siemens 2019

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**	SD	**I_{cu} up to 55 kA at 415 V, standard breaking capacity N** See "Overview". (N) Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	A	A	d					

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 releases 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
	100[1]	40 ... 100	1.25 ... 11 × I_n	1.5 ... 10 × I_R	**3VL2710-1UJ4□-□□□□**	1	1 unit	1CC
	160	64 ... 160	1.25 ... 11 × I_n	1.5 ... 10 × I_R	**3VL2716-1UJ4□-□□□□**	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... 11 × I_n	1.5 ... 10 × I_R	**3VL3720-1UJ4□-□□□□**	1	1 unit	1CC
	250	100 ... 250	1.25 ... 11 × I_n	1.5 ... 10 × I_R	**3VL3725-1UJ4□-□□□□**	1	1 unit	1CC
		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
	400	160 ... 400	1.25 ... 11 × I_n	1.5 ... 10 × I_R	**3VL4740-1UJ46-□□□□**	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... 10 × I_n	1.5 ... 9 × I_R	**3VL5763-1UJ46-□□□□**	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... 8 × I_n	1.5 ... 7 × I_R	**3VL6780-1UJ46-□□□□**	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... 11 × I_n	1.5 ... 10 × I_R	**3VL7710-1UJ46-□□□□**	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... 11 × I_n	1.5 ... 10 × I_R	**3VL7712-1UJ46-□□□□**	1	1 unit	1CC
VL1600/3VL8[3]	1600	640 ... 1600	1.25 ... 9 × I_n	1.5 ... 8 × I_R	**3VL8716-1UJ40-□□□□**	1	1 unit	1CC

[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.

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

© Siemens 2019

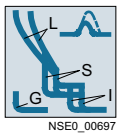
SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)				
d	Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG	d	Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	3VL2706-2UJ4□-□□□□		1	1 unit	1CC		**3VL2706-3UJ4□-□□□□**		1	1 unit	1CC
	3VL2710-2UJ4□-□□□□		1	1 unit	1CC		**3VL2710-3UJ4□-□□□□**		1	1 unit	1CC
	3VL2716-2UJ4□-□□□□		1	1 unit	1CC		**3VL2716-3UJ4□-□□□□**		1	1 unit	1CC
	3VL3720-2UJ4□-□□□□		1	1 unit	1CC		**3VL3720-3UJ4□-□□□□**		1	1 unit	1CC
	3VL3725-2UJ4□-□□□□		1	1 unit	1CC		**3VL3725-3UJ4□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4731-2UJ46-□□□□		1	1 unit	1CC		**3VL4731-3UJ46-□□□□**		1	1 unit	1CC
	3VL4740-2UJ46-□□□□		1	1 unit	1CC		**3VL4740-3UJ46-□□□□**		1	1 unit	1CC
	3VL5763-2UJ46-□□□□		1	1 unit	1CC		**3VL5763-3UJ46-□□□□**		1	1 unit	1CC
	3VL6780-2UJ46-□□□□		1	1 unit	1CC		**3VL6780-3UJ46-□□□□**		1	1 unit	1CC
	3VL7710-2UJ46-□□□□		1	1 unit	1CC		**3VL7710-3UJ46-□□□□**		1	1 unit	1CC
	3VL7712-2UJ46-□□□□		1	1 unit	1CC		**3VL7712-3UJ46-□□□□**		1	1 unit	1CC
	3VL8716-2UJ40-□□□□		1	1 unit	1CC		**3VL8716-3UJ40-□□□□**		1	1 unit	1CC

© Siemens 2019

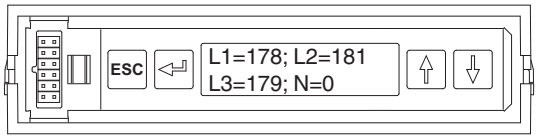
4-pole

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	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N (N) See "Overview". Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	A	A	A	d					

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 releases 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
	100	40 ... 100	1.25 ... 11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	**3VL2710-1UN4□-□□□□**	1	1 unit	1CC
	160	64 ... 160	1.25 ... 11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	**3VL2716-1UN4□-□□□□**	1	1 unit	1CC
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
	250	100 ... 250	1.25 ... 11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	**3VL3725-1UN4□-□□□□**	1	1 unit	1CC

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
	400	160 ... 400	1.25 ... 11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	**3VL4740-1UN46-□□□□**	1	1 unit	1CC
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
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
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
	1250	500 ... 1250	1.25 ... 11 × I_n	1.5 ... 10 × I_R	0.4 ... 1 × I_n	**3VL7712-1UN46-□□□□**	1	1 unit	1CC
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

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.

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

© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)				
	Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
d						d					
	3VL2706-2UN4□-□□□□		1	1 unit	1CC		**3VL2706-3UN4□-□□□□**		1	1 unit	1CC
	3VL2710-2UN4□-□□□□		1	1 unit	1CC		**3VL2710-3UN4□-□□□□**		1	1 unit	1CC
	3VL2716-2UN4□-□□□□		1	1 unit	1CC		**3VL2716-3UN4□-□□□□**		1	1 unit	1CC
	3VL3720-2UN4□-□□□□		1	1 unit	1CC		**3VL3720-3UN4□-□□□□**		1	1 unit	1CC
	3VL3725-2UN4□-□□□□		1	1 unit	1CC		**3VL3725-3UN4□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4731-2UN46-□□□□		1	1 unit	1CC		**3VL4731-3UN46-□□□□**		1	1 unit	1CC
	3VL4740-2UN46-□□□□		1	1 unit	1CC		**3VL4740-3UN46-□□□□**		1	1 unit	1CC
	3VL5763-2UN46-□□□□		1	1 unit	1CC		**3VL5763-3UN46-□□□□**		1	1 unit	1CC
	3VL6780-2UN46-□□□□		1	1 unit	1CC		**3VL6780-3UN46-□□□□**		1	1 unit	1CC
	3VL7710-2UN46-□□□□		1	1 unit	1CC		**3VL7710-3UN46-□□□□**		1	1 unit	1CC
	3VL7712-2UN46-□□□□		1	1 unit	1CC		**3VL7712-3UN46-□□□□**		1	1 unit	1CC
	3VL8716-2UN40-□□□□		1	1 unit	1CC		**3VL8716-3UN40-□□□□**		1	1 unit	1CC

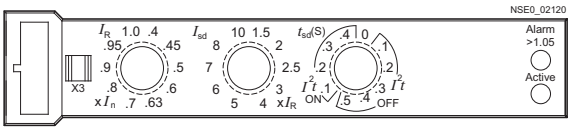
© Siemens 2019

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**	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview". (N)			
						Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/266	PU (UNIT, SET, M)	PS	PG
	A	A	A	A	d					

4-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, fixed short-circuit releases, short-circuit delay (t_{sd} = 0 ... 0.5 s) without overcurrent and short-circuit releases 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
	100	40 ... 100	11 × I_n	1.5 ... 10 × I_R	**3VL2710-1□□4□-□□□□**	1	1 unit	1CC
	160	64 ... 160	11 × I_n	1.5 ... 10 × I_R	**3VL2716-1□□4□-□□□□**	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	11 × I_n	1.5 ... 10 × I_R	**3VL3720-1□□4□-□□□□**	1	1 unit	1CC
	250	100 ... 250	11 × I_n	1.5 ... 10 × I_R	**3VL3725-1□□4□-□□□□**	1	1 unit	1CC

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

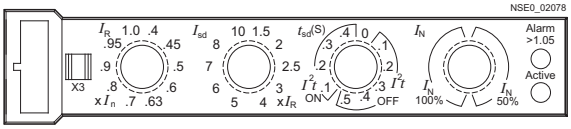
• Connection with box terminal	**3**
• Connection with flat screw terminal[1)]	**6**

VL400/3VL4	315	128 ... 315	11 × I_n	1.5 ... 10 × I_R	**3VL4731-1□□46-□□□□**	1	1 unit	1CC
	400	160 ... 400	11 × I_n	1.5 ... 10 × I_R	**3VL4740-1□□46-□□□□**	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	10 × I_n	1.5 ... 9 × I_R	**3VL5763-1□□46-□□□□**	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	8 × I_n	1.5 ... 7 × I_R	**3VL6780-1□□46-□□□□**	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	11 × I_n	1.5 ... 10 × I_R	**3VL7710-1□□46-□□□□**	1	1 unit	1CC
	1250	500 ... 1250	11 × I_n	1.5 ... 10 × I_R	**3VL7712-1□□46-□□□□**	1	1 unit	1CC
VL1600/3VL8[1)]	1600	640 ... 1600	9 × I_n	1.5 ... 8 × I_R	**3VL8716-1□□40-□□□□**	1	1 unit	1CC

• 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

NSE0_00692



ETU20, LSIN function for time-based discrimination

With adjustable overcurrent releases, fixed short-circuit releases, short-circuit delay (t_{sd} = 0 ... 0.5 s) with overcurrent and short-circuit releases 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
	100	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	**3VL2710-1□□4□-□□□□**	1	1 unit	1CC
	160	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	**3VL2716-1□□4□-□□□□**	1	1 unit	1CC
VL250/3VL3	200	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	**3VL3720-1□□4□-□□□□**	1	1 unit	1CC
	250	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	**3VL3725-1□□4□-□□□□**	1	1 unit	1CC

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
	400	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	**3VL4740-1□□46-□□□□**	1	1 unit	1CC
VL630/3VL5	630	0.4 ... 1.0 × I_n	10 × I_n	1.5 ... 9 × I_R	**3VL5763-1□□46-□□□□**	1	1 unit	1CC
VL800/3VL6	800	0.4 ... 1.0 × I_n	8 × I_n	1.5 ... 7 × I_R	**3VL6780-1□□46-□□□□**	1	1 unit	1CC
VL1250/3VL7	1000	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	**3VL7710-1□□46-□□□□**	1	1 unit	1CC
	1250	0.4 ... 1.0 × I_n	11 × I_n	1.5 ... 10 × I_R	**3VL7712-1□□46-□□□□**	1	1 unit	1CC
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

• Without communication preparation	**TF**
• With communication preparation	**NF**
• Marine engineering-certified LRS, DNV, GL and BV (not communication-	**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 2/303.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

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

© Siemens 2019

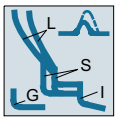
SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)				SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)			
	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/266	PU (UNIT, SET, M)	PS	PG	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/266	PU (UNIT, SET,	PS	PG
d					d					
	3VL2706-2□□4□-□□□□		1	1 unit	1CC	**3VL2706-3□□4□-□□□□**		1	1 unit	1CC
	3VL2710-2□□4□-□□□□		1	1 unit	1CC	**3VL2710-3□□4□-□□□□**		1	1 unit	1CC
	3VL2716-2□□4□-□□□□		1	1 unit	1CC	**3VL2716-3□□4□-□□□□**		1	1 unit	1CC
	3VL3720-2□□4□-□□□□		1	1 unit	1CC	**3VL3720-3□□4□-□□□□**		1	1 unit	1CC
	3VL3725-2□□4□-□□□□		1	1 unit	1CC	**3VL3725-3□□4□-□□□□**		1	1 unit	1CC
	3 6					**3 6**				
	3VL4731-2□□46-□□□□		1	1 unit	1CC	**3VL4731-3□□46-□□□□**		1	1 unit	1CC
	3VL4740-2□□46-□□□□		1	1 unit	1CC	**3VL4740-3□□46-□□□□**		1	1 unit	1CC
	3VL5763-2□□46-□□□□		1	1 unit	1CC	**3VL5763-3□□46-□□□□**		1	1 unit	1CC
	3VL6780-2□□46-□□□□		1	1 unit	1CC	**3VL6780-3□□46-□□□□**		1	1 unit	1CC
	3VL7710-2□□46-□□□□		1	1 unit	1CC	**3VL7710-3□□46-□□□□**		1	1 unit	1CC
	3VL7712-2□□46-□□□□		1	1 unit	1CC	**3VL7712-3□□46-□□□□**		1	1 unit	1CC
	3VL8716-2□□40-□□□□		1	1 unit	1CC	**3VL8716-3□□40-□□□□**		1	1 unit	1CC
	TE NE					**TE NE**				

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)				SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)			
	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/266	PU (UNIT, SET, M)	PS	PG	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/266	PU (UNIT, SET,	PS	PG
d					d					
	3VL2706-2□□4□-□□□□		1	1 unit	1CC	**3VL2706-3□□4□-□□□□**		1	1 unit	1CC
	3VL2710-2□□4□-□□□□		1	1 unit	1CC	**3VL2710-3□□4□-□□□□**		1	1 unit	1CC
	3VL2716-2□□4□-□□□□		1	1 unit	1CC	**3VL2716-3□□4□-□□□□**		1	1 unit	1CC
	3VL3720-2□□4□-□□□□		1	1 unit	1CC	**3VL3720-3□□4□-□□□□**		1	1 unit	1CC
	3VL3725-2□□4□-□□□□		1	1 unit	1CC	**3VL3725-3□□4□-□□□□**		1	1 unit	1CC
	3 6					**3 6**				
	3VL4731-2□□46-□□□□		1	1 unit	1CC	**3VL4731-3□□46-□□□□**		1	1 unit	1CC
	3VL4740-2□□46-□□□□		1	1 unit	1CC	**3VL4740-3□□46-□□□□**		1	1 unit	1CC
	3VL5763-2□□46-□□□□		1	1 unit	1CC	**3VL5763-3□□46-□□□□**		1	1 unit	1CC
	3VL6780-2□□46-□□□□		1	1 unit	1CC	**3VL6780-3□□46-□□□□**		1	1 unit	1CC
	3VL7710-2□□46-□□□□		1	1 unit	1CC	**3VL7710-3□□46-□□□□**		1	1 unit	1CC
	3VL7712-2□□46-□□□□		1	1 unit	1CC	**3VL7712-3□□46-□□□□**		1	1 unit	1CC
	3VL8716-2□□40-□□□□		1	1 unit	1CC	**3VL8716-3□□40-□□□□**		1	1 unit	1CC
	TF NF LF					**TF NF LF**				

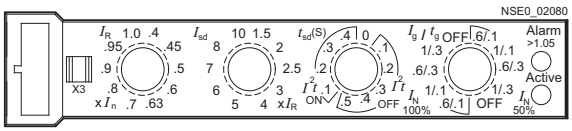
© Siemens 2019

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	SD	I_{cu} **up to 55 kA at 415 V, standard breaking capacity N** See "Overview". (N)			
							Article No.	Price, see page 2/266	PU (UNIT, SET, M)	PS	PG
							Article No. supplement, see page 2/268; www.siemens.com/product?Article No.				
	A	A	A	A	A	d					

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 function (G) can be switched off, short-circuit delay t_{sd} = 0 ... 0.5 s
with overcurrent and short-circuit releases 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
	100	40 ... 100	11 × I_n	1.5 ... 10 × I_R	0.6 ... 1 × I_n, OFF	**3VL2710-1□□4□-□□□□**	1	1 unit	1CC
	160	64 ... 160	11 × I_n	1.5 ... 10 × I_R	0.6 ... 1 × I_n, OFF	**3VL2716-1□□4□-□□□□**	1	1 unit	1CC
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
	250	100 ... 250	11 × I_n	1.5 ... 10 × I_R	0.6 ... 1 × I_n, OFF	**3VL3725-1□□4□-□□□□**	1	1 unit	1CC

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
	400	160 ... 400	11 × I_n	1.5 ... 10 × I_R	0.6 ... 1 × I_n, OFF	**3VL4740-1□□46-□□□□**	1	1 unit	1CC
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
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
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
	1250	500 ... 1250	11 × I_n	1.5 ... 10 × I_R	0.6 ... 1 × I_n, OFF	**3VL7712-1□□46-□□□□**	1	1 unit	1CC
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

• 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 2/303.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

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

© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)				SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)			
	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/266	PU (UNIT, SET, M)	PS	PG	Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Price, see page 2/266	PU (UNIT, SET, M)	PS	PG
d					d					
	3VL2706-2□□4□-□□□□		1	1 unit	1CC	**3VL2706-3□□4□-□□□□**		1	1 unit	1CC
	3VL2710-2□□4□-□□□□		1	1 unit	1CC	**3VL2710-3□□4□-□□□□**		1	1 unit	1CC
	3VL2716-2□□4□-□□□□		1	1 unit	1CC	**3VL2716-3□□4□-□□□□**		1	1 unit	1CC
	3VL3720-2□□4□-□□□□		1	1 unit	1CC	**3VL3720-3□□4□-□□□□**		1	1 unit	1CC
	3VL3725-2□□4□-□□□□		1	1 unit	1CC	**3VL3725-3□□4□-□□□□**		1	1 unit	1CC
	3 6					**3 6**				
	3VL4731-2□□46-□□□□		1	1 unit	1CC	**3VL4731-3□□46-□□□□**		1	1 unit	1CC
	3VL4740-2□□46-□□□□		1	1 unit	1CC	**3VL4740-3□□46-□□□□**		1	1 unit	1CC
	3VL5763-2□□46-□□□□		1	1 unit	1CC	**3VL5763-3□□46-□□□□**		1	1 unit	1CC
	3VL6780-2□□46-□□□□		1	1 unit	1CC	**3VL6780-3□□46-□□□□**		1	1 unit	1CC
	3VL7710-2□□46-□□□□		1	1 unit	1CC	**3VL7710-3□□46-□□□□**		1	1 unit	1CC
	3VL7712-2□□46-□□□□		1	1 unit	1CC	**3VL7712-3□□46-□□□□**		1	1 unit	1CC
	3VL8716-2□□40-□□□□		1	1 unit	1CC	**3VL8716-3□□40-□□□□**		1	1 unit	1CC
	TH NH					**TH NH**				

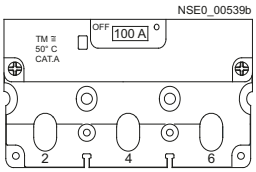
© Siemens 2019

4-pole

Type	Rated current I_n	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N (N) See "Overview". Article No. / Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	d					

4-pole, fixed-mounted, for safe disconnection, 100 A to 1600 A, magnetic release I

NSE0_00708



Non-automatic molded case circuit breakers*[1], *I function
Without thermal overcurrent release, with fixed short-circuit release (for intrinsic protection only)
without thermal overcurrent and short-circuit release in the 4th pole (N)

VL160X/3VL1	100	1800	**3VL1710-1EE4□-□□□□**	1	1 unit	1CC
	160	1800	**3VL1716-1EE4□-□□□□**	1	1 unit	1CC
VL160/3VL2	100	2500	**3VL2710-1EE4□-□□□□**	1	1 unit	1CC
	160	2500	**3VL2716-1EE4□-□□□□**	1	1 unit	1CC
VL250/3VL3	250	3500	**3VL3725-1EE4□-□□□□**	1	1 unit	1CC

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 with 3VL1[2]	**6**

VL400/3VL4	400	4000	**3VL4740-1EE46-□□□□**	1	1 unit	1CC
VL630/3VL5	630	6300	**3VL5763-1EE46-□□□□**	1	1 unit	1CC
VL800/3VL6	800	6500	**3VL6780-1EE46-□□□□**	1	1 unit	1CC
VL1250/3VL7	1250	12000	**3VL7712-1EE46-□□□□**	1	1 unit	1CC
VL1600/3VL8[3]	1600	14400	**3VL8716-1EE40-□□□□**	1	1 unit	1CC

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.

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

© Siemens 2019

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H (H)					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L (L)				
	Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		Article No. Article No. supplement, see page 2/268; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
d						d					
	3VL1710-2EE4□-□□□□		1	1 unit	1CC		**--**				
	3VL1716-2EE4□-□□□□		1	1 unit	1CC		**--**				
	3VL2710-2EE4□-□□□□		1	1 unit	1CC		**3VL2710-3EE4□-□□□□**		1	1 unit	1CC
	3VL2716-2EE4□-□□□□		1	1 unit	1CC		**3VL2716-3EE4□-□□□□**		1	1 unit	1CC
	3VL3725-2EE4□-□□□□		1	1 unit	1CC		**3VL3725-3EE4□-□□□□**		1	1 unit	1CC
	3 6						**3 6**				
	3VL4740-2EE46-□□□□		1	1 unit	1CC		**3VL4740-3EE46-□□□□**		1	1 unit	1CC
	3VL5763-2EE46-□□□□		1	1 unit	1CC		**3VL5763-3EE46-□□□□**		1	1 unit	1CC
	3VL6780-2EE46-□□□□		1	1 unit	1CC		**3VL6780-3EE46-□□□□**		1	1 unit	1CC
	3VL7712-2EE46-□□□□		1	1 unit	1CC		**3VL7712-3EE46-□□□□**		1	1 unit	1CC
	3VL8716-2EE40-□□□□		1	1 unit	1CC		**3VL8716-3EE40-□□□□**		1	1 unit	1CC

© Siemens 2019

4-pole

Article No. supplement (for complete Article No., see pages 2/252 to 2/263) **3VL7.. - .□□4.-....**		Breaking capacity	Type	**VL160**[1]			**VL250**[1]		**VL400**		**VL630**	**VL800**	**VL1250**		**VL1600**
				3VL2			3VL3		3VL4		3VL5	3VL6	3VL7		3VL8
			Rated current I_n												
Trip unit				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		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

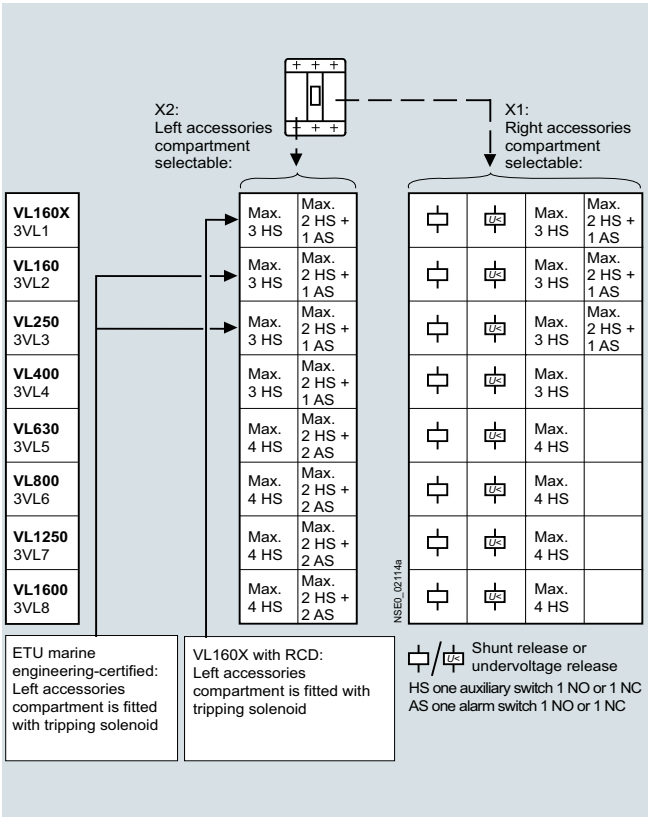
[1] **The basic price is reduced when the molded case circuit breaker is ordered with a flat screw terminal ".36-".**

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

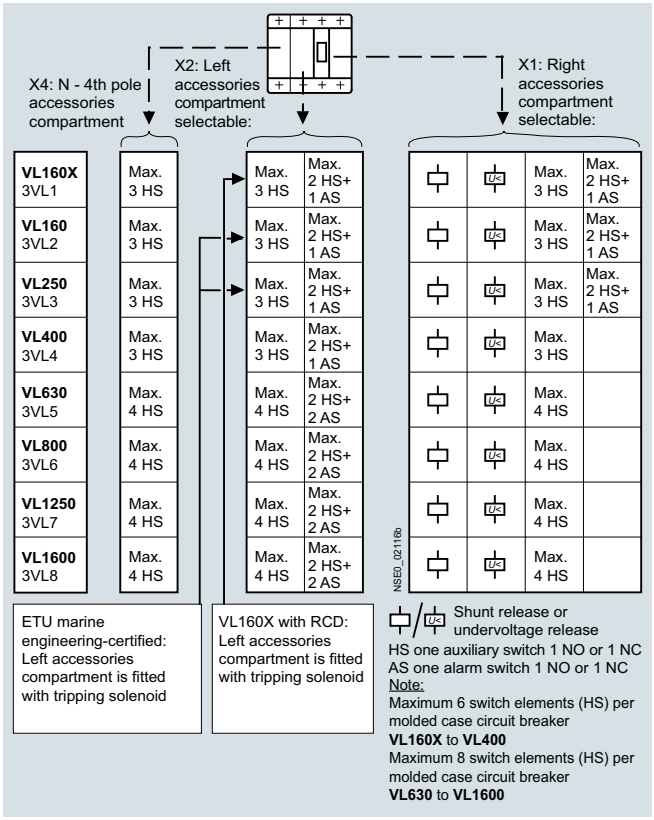
© Siemens 2019

Equipment options for the insulated accessory compartments in the 3VL molded case circuit breakers

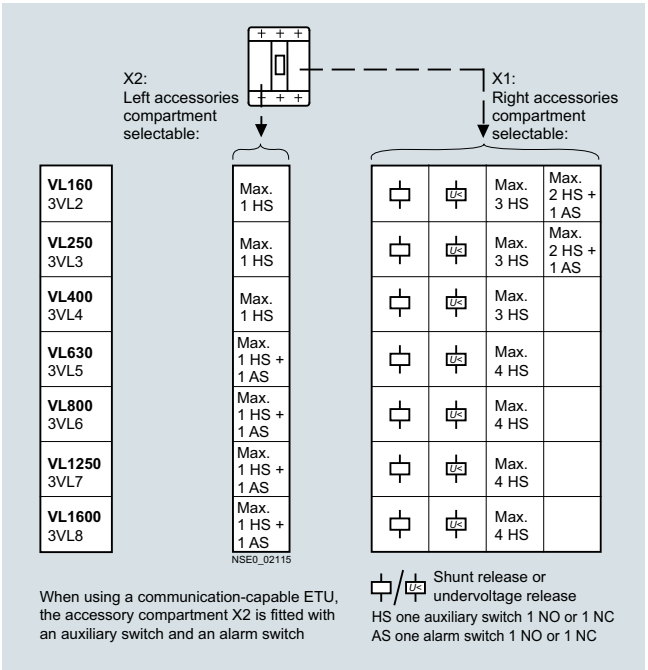
3-pole circuit breakers without communication preparation



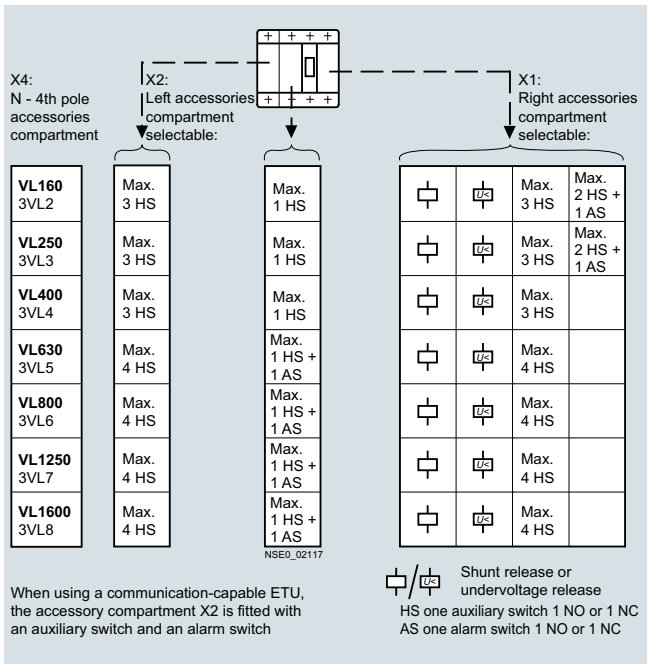
4-pole circuit breakers without communication preparation



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.

© Siemens 2019

Options

2

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 DC		**3VL ....-.....-** ☐☐	..	**VL160X to VL400/ 3VL1 to 3VL4** Additional price	**VL630 to VL1600/ 3VL5 to 3VL8** Additional price
3- or 4-pole					
Without auxiliary releases		**0**	**A**	**None**	**None**
With undervoltage release Right pole only					
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 Right pole only					
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,
wiring directly to accessories

Equipment	Article No. supplement		Circuit breakers Type	
HS = 1 NO or 1 NC contact block 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)]

-- 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.

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

© Siemens 2019

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 Connecting cables (3 m long) brought out at the rear This option "L02" can be selected only in combination with internal accessories (page 2/268). Option not available for factory-fitted motorized operating mechanisms.	For VL160X to VL1600 (3VL1 to 3VL8)	**L 0 2**	✓
Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (24 V DC) Motorized operating mechanisms not wired; if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition. 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) Motorized operating mechanisms not wired; if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition. 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 (110 ... 127 V AC/DC) Motorized operating mechanisms not wired; if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition. 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) Motorized operating mechanisms not wired; if wiring for the motorized operating mechanism is wanted, please specify "L12" in addition. 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]		✓

[1] The motorized operating mechanism for VL1250 and VL1600 (3VL7 and 3VL8) has no stored energy mechanism and is also unsuitable for synchronization tasks.

© Siemens 2019

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)

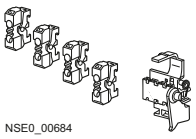
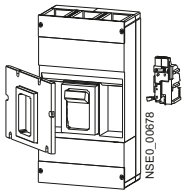
3- or 4-pole

Pre-mounted motorized operating mechanisms (24 V DC) on circuit breaker, not synchronizable 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 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 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 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)		✓

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

© Siemens 2019

Selection and ordering data

	Wiring directly to accessories	SD	For VL160X to VL400 (3VL1 to 3VL4) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
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 / Mounting side						
	2 HS (1 NO + 1 NC) / N, left[1], right		**3VL9400-2AB00**		1	1 unit	1CC
	4 HS (2 NO + 2 NC) / N, left[1], right		**--**				
	2 HS (1 NC + 1 NO) / left[1], right[3]		**3VL9400-2AD00**		1	1 unit	1CC
	+ 1 AS (1 NO) (assembly kit) / left[1]		**--**				
	Additional auxiliary switch/alarm switch combinations		See page 2/273.				
 NSE0_00678 3VL9400-1S.00, 3VL9400-1U.00	**Shunt releases[2]** For retrofitting						
	V AC / V DC / Mounting side						
	24 / 24 / Right pole only		**3VL9400-1SC00**		1	1 unit	1CC
	-- / 48 ... 60 / Right pole only		**3VL9400-1SJ00**		1	1 unit	1CC
	-- / 110 ... 127 / Right pole only		**3VL9400-1SK00**		1	1 unit	1CC
	-- / 220 ... 250 / Right pole only		**3VL9400-1SQ00**		1	1 unit	1CC
	48 ... 60 / -- / Right pole only		**3VL9400-1SM00**		1	1 unit	1CC
	110 ... 127 / -- / Right pole only		**3VL9400-1SR00**		1	1 unit	1CC
	208 ... 277 / -- / Right pole only		**3VL9400-1ST00**		1	1 unit	1CC
	380 ... 600 / -- / Right pole only		**3VL9400-1SV00**		1	1 unit	1CC
	Undervoltage releases For retrofitting						
	V AC / V DC / Mounting side						
	-- / 12 / Right pole only		**3VL9400-1UN00**		1	1 unit	1CC
	-- / 24 / Right pole only		**3VL9400-1UP00**		1	1 unit	1CC
	-- / 48 / Right pole only		**3VL9400-1UU00**		1	1 unit	1CC
	-- / 60 / Right pole only		**3VL9400-1UV00**		1	1 unit	1CC
	24 / -- / Right pole only		**3VL9400-1UD00**		1	1 unit	1CC
	110 ... 127 / -- / Right pole only		**3VL9400-1UG00**		1	1 unit	1CC
	-- / 110 ... 127 / Right pole only		**3VL9400-1UR00**		1	1 unit	1CC
	208 / -- / Right pole only		**3VL9400-1UM00**		1	1 unit	1CC
	220 ... 250 / -- / Right pole only		**3VL9400-1UH00**		1	1 unit	1CC
	-- / 220 ... 250 / Right pole only		**3VL9400-1US00**		1	1 unit	1CC
	277 / -- / Right pole only		**3VL9400-1UQ00**		1	1 unit	1CC
	380 ... 415 / -- / Right pole only		**3VL9400-1UJ00**		1	1 unit	1CC
	440 ... 480 / -- / Right pole only		**3VL9400-1UK00**		1	1 unit	1CC
	500 ... 525 / -- / Right pole only		**3VL9400-1UL00**		1	1 unit	1CC
	Storage devices for shunt releases (208 ... 277 V AC/220 ... 250 V DC) Rated control supply voltage U_s 220 ... 240 V AC/220 ... 250 V DC						
	Storage time 5 min		**3WL9111-0BA14-0AA0**		1	1 unit	1CA

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 (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 accessory compartment. The 3VL9400-2AB00 assembly kit with auxiliary switches only is recommended.

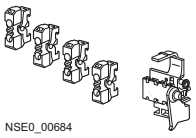
© Siemens 2019

		SD	For VL630 to VL1600 (3VL5 to 3VL8) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	Wiring directly to accessories	d					

Auxiliary switches and auxiliary releases

3- or 4-pole

For retrofitting (for equipment options, see Technical Information at www.siemens.com/lowvoltage/product-support.)



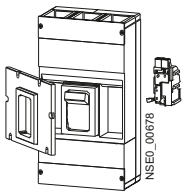
3VL9800-2A.00

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
2 HS (1 NC + 1 NO)	Left, right	--			
+ 1 AS (1 NO) (assembly kit)	Left	**3VL9800-2AE00**	1	1 unit	1CC
Additional auxiliary switch/alarm switch combinations		See page 2/273.			

Shunt releases [1]
For retrofitting

V AC	V DC	Mounting side				
24	24	Right pole only	**3VL9800-1SC00**	1	1 unit	1CC
--	48 ... 60	Right pole only	**3VL9800-1SJ00**	1	1 unit	1CC
--	110 ... 127	Right pole only	**3VL9800-1SK00**	1	1 unit	1CC
--	220 ... 250	Right pole only	**3VL9800-1SQ00**	1	1 unit	1CC
48 ... 60	--	Right pole only	**3VL9800-1SM00**	1	1 unit	1CC
110 ... 127	--	Right pole only	**3VL9800-1SR00**	1	1 unit	1CC
208 ... 277	--	Right pole only	**3VL9800-1ST00**	1	1 unit	1CC
380 ... 600	--	Right pole only	**3VL9800-1SV00**	1	1 unit	1CC



3VL9800-1S.00,
3VL9800-1U.00

Undervoltage releases
For retrofitting

V AC	V DC	Mounting side				
--	12	Right pole only	**3VL9800-1UN00**	1	1 unit	1CC
--	24	Right pole only	**3VL9800-1UP00**	1	1 unit	1CC
--	48	Right pole only	**3VL9800-1UU00**	1	1 unit	1CC
--	60	Right pole only	**3VL9800-1UV00**	1	1 unit	1CC
24	--	Right pole only	**3VL9800-1UD00**	1	1 unit	1CC
110 ... 127	--	Right pole only	**3VL9800-1UG00**	1	1 unit	1CC
--	110 ... 127	Right pole only	**3VL9800-1UR00**	1	1 unit	1CC
208	--	Right pole only	**3VL9800-1UM00**	1	1 unit	1CC
220 ... 250	--	Right pole only	**3VL9800-1UH00**	1	1 unit	1CC
--	220 ... 250	Right pole only	**3VL9800-1US00**	1	1 unit	1CC
277	--	Right pole only	**3VL9800-1UQ00**	1	1 unit	1CC
380 ... 415	--	Right pole only	**3VL9800-1UJ00**	1	1 unit	1CC
440 ... 480	--	Right pole only	**3VL9800-1UK00**	1	1 unit	1CC
500 ... 525	--	Right pole only	**3VL9800-1UL00**	1	1 unit	1CC

Storage devices for shunt releases (208 ... 277 V AC/220 ... 250 V DC)
Rated control supply voltage U_s
220 ... 240 V AC/220 ... 250 V DC

Storage time 5 min	**3WL9111-0BA14-0AA0**	1	1 unit	1CA

[1] Shunt releases with disconnection contact (for ON/OFF position) not floating (see Technical Information at www.siemens.com/lowvoltage/product-support).

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

© Siemens 2019

For circuit breakers Type	Maximum combination of auxiliary switches (HS) and alarm switches (AS)	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Adapters and 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
	2 HS + 1 AS[1)2)]		**--**				
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS		**3VL9816-2AL00**		1	1 unit	1CC
	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
	2 HS + 1 AS[1)2)]		**3VL9400-2AJ10**		1	1 unit	1CC
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS		**3VL9816-2AL00**		1	1 unit	1CC
	2 HS + 2 AS		**3VL9816-2AN10**		1	1 unit	1CC
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
	2 HS + 1 AS[1)2)]		**3VL9400-2AJ20**		1	1 unit	1CC
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS		**3VL9816-2AL00**		1	1 unit	1CC
	2 HS + 2 AS		**--**				

1) Except for installation 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 accessory compartment.

For auxiliary switches (HS) and alarm switches (AS)	SD d	Circuit breakers Type **VL160X to VL1600 (3VL1 to 3VL8)** Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Contact blocks for auxiliary switch and alarm switch combinations *NEW*						
1 NO		**3VL9800-2AJ00**		1	1 unit	1CC
1 NC		**3VL9800-2AK00**		1	1 unit	1CC

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 3VL9800-2AJ00
1 HS or 1 AS with NC contact 3VL9800-2AK00

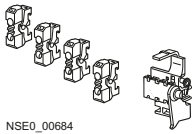
Note:

The products 3VL9800-2AJ00 and 3VL9800-2AK00 will be available at the latest from January 2019.

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 3VL9800-2AJ00 or 3VL9800-2AK00 auxiliary contact blocks and one mounting adapter (right), suitable for VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8) circuit breakers.



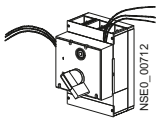
NSE0_00684

For retrofitting/equipment options, see Technical Information at www.siemens.com/lowvoltage/product-support.

© Siemens 2019

Accessories and spare parts

2

	Version	SD	For VL160X to VL250 (3VL1 to 3VL3) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
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
	EMERGENCY STOP version						
	Red knob, yellow indicator plate		**3VL9300-3HC00**		1	1 unit	1CC
	For safety locks for installation by the customer, see pages 2/296 to 2/300.						
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
3VL9.00-3H.05	**Door-coupling rotary operating mechanisms, complete**[1] **Installation in doors and covers** Degree of protection IP65, including handle ti-gray, 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
	EMERGENCY STOP version						
	Red knob, yellow indicator plate, without leading auxiliary switch		**3VL9300-3HG05**		1	1 unit	1CC
	For safety locks for installation by the customer, see pages 2/296 to 2/300.						
 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
	2 changeover contacts with 1.5 m long cables		**3VL9300-3AT10**		1	1 unit	1CC
	"ON after OFF" Leading auxiliary switches when switching off						
	1 changeover contact with 1.5 m long cables		**3VL9300-3AU10**		1	1 unit	1CC
	2 changeover contacts with 1.5 m long cables		**3VL9300-3AW10**		1	1 unit	1CC
	Side panel rotary operating mechanisms, complete[1] Degree of protection IP65, including black knob with masking plate, indicator plate, Bowden cable, lockable with up to 3 padlocks						
	- With 600 mm Bowden cable		**3VL9300-3HR10**		1	1 unit	1CC
	- With 1000 mm Bowden cable		**3VL9300-3HR20**		1	1 unit	1CC
	- With 1500 mm Bowden cable		**3VL9300-3HR30**		1	1 unit	1CC
	Side panel rotary operating mechanisms, complete[1] EMERGENCY STOP version Degree of protection IP65, including red knob with masking plate, yellow indicator plate, Bowden cable, lockable with up to 3 padlocks						
	- With 600 mm Bowden cable		**3VL9300-3HR11**		1	1 unit	1CC
	- With 1000 mm Bowden cable		**3VL9300-3HR21**		1	1 unit	1CC
	- With 1500 mm Bowden cable		**3VL9300-3HR31**		1	1 unit	1CC
	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
	- For 6 mm shaft		**3VL9300-3HP00**		1	1 unit	1CC

Additional accessories and components for door-coupling rotary operating mechanisms, see 2/279.

[1] Not possible on VL160X with RCD module.

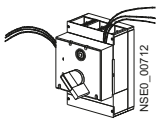
[2] IP40 with additional masking frame mounted on the door cut-out.

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

© Siemens 2019

SD d	For VL400 (3VL4) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD d	For VL630 (3VL5) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VL9400-3HA00		1	1 unit	1CC		**3VL9600-3HA00**		1	1 unit	1CC
	3VL9400-3HC00		1	1 unit	1CC		**3VL9600-3HC00**		1	1 unit	1CC
	3VL9400-3HE00		1	1 unit	1CC		**3VL9600-3HE00**		1	1 unit	1CC
	3VL9400-3HF05		1	1 unit	1CC		**3VL9600-3HF05**		1	1 unit	1CC
	3VL9400-3HG05		1	1 unit	1CC		**3VL9600-3HG05**		1	1 unit	1CC
	3VL9400-3AS10		1	1 unit	1CC		**3VL9600-3AS10**		1	1 unit	1CC
	3VL9400-3AT10		1	1 unit	1CC		**3VL9600-3AT10**		1	1 unit	1CC
	3VL9400-3AU10		1	1 unit	1CC		**3VL9600-3AU10**		1	1 unit	1CC
	3VL9400-3AW10		1	1 unit	1CC		**3VL9600-3AW10**		1	1 unit	1CC
	3VL9400-3HR10		1	1 unit	1CC		**3VL9500-3HR10**		1	1 unit	1CC
	3VL9400-3HR20		1	1 unit	1CC		**3VL9500-3HR20**		1	1 unit	1CC
	3VL9400-3HR30		1	1 unit	1CC		**3VL9500-3HR30**		1	1 unit	1CC
	3VL9400-3HR11		1	1 unit	1CC		**3VL9500-3HR11**		1	1 unit	1CC
	3VL9400-3HR21		1	1 unit	1CC		**3VL9500-3HR21**		1	1 unit	1CC
	3VL9400-3HR31		1	1 unit	1CC		**3VL9500-3HR31**		1	1 unit	1CC
	3VL9400-3HP00		1	1 unit	1CC		**3VL9600-3HP00**		1	1 unit	1CC
	--						**--**				

© Siemens 2019

	Version	SD	For VL800 (3VL6) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
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
	EMERGENCY STOP version Red knob, yellow indicator plate		**3VL9600-3HC00**		1	1 unit	1CC
	For safety locks for installation by the customer, see pages 2/296 to 2/300.						
3VL9.00-3HE00	**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
3VL9.00-3H.05	**Door-coupling rotary operating mechanisms, complete Installation in doors and covers** Degree of protection IP65, including handle, ti-gray, with masking plate, indicator plate, removable 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
	EMERGENCY STOP version Red knob, yellow indicator plate without leading auxiliary switch		**3VL9600-3HG05**		1	1 unit	1CC
	For safety locks for installation by the customer, see pages 2/296 to 2/300.						
 3VL9.00-3A.10	**Leading auxiliary switches for installation in a front-operated rotary operating mechanism, 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
	2 changeover contacts with 1.5 m long cables		**3VL9600-3AT10**		1	1 unit	1CC
	"ON after OFF" Leading auxiliary switches when switching off						
	1 changeover contact with 1.5 m long cables		**3VL9600-3AU10**		1	1 unit	1CC
	2 changeover contacts with 1.5 m long cables		**3VL9600-3AW10**		1	1 unit	1CC
	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

Additional accessories and components for door-coupling rotary operating mechanism, see 2/279 and 2/281.

[1] IP40 with additional masking frame mounted on the door cut-out.

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

© Siemens 2019

SD	For VL1250 to VL1600 (3VL7 and 3VL8)		PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.	Price per PU			
	3VL9800-3HA00		1	1 unit	1CC
	3VL9800-3HC00		1	1 unit	1CC
	3VL9800-3HE00		1	1 unit	1CC
	3VL9800-3HF05		1	1 unit	1CC
	3VL9800-3HG05		1	1 unit	1CC
	3VL9800-3AS20		1	1 unit	1CC
	3VL9800-3AT20		1	1 unit	1CC
	3VL9800-3AU10		1	1 unit	1CC
	3VL9800-3AW10		1	1 unit	1CC
	3VL9800-3HP00		1	1 unit	1CC

© Siemens 2019

Accessories and spare parts

Motorized operating mechanisms

3VL9.00-3M.00

3VL9.00-3M.10

Version	50/60 Hz V AC	V DC	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
3- or 4-pole								
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)**				
	--	24		**3VL9300-3MJ00**		1	1 unit	1CC
	42 ... 48	42 ... 48		**3VL9300-3ML00**		1	1 unit	1CC
	110 ... 127	110 ... 127		**3VL9300-3MN00**		1	1 unit	1CC
	220 ... 250	220 ... 250		**3VL9300-3MQ00**		1	1 unit	1CC
				For VL400 (3VL4)				
	--	24		**3VL9400-3MJ00**		1	1 unit	1CC
	42 ... 48	42 ... 48		**3VL9400-3ML00**		1	1 unit	1CC
	110 ... 127	110 ... 127		**3VL9400-3MN00**		1	1 unit	1CC
	220 ... 250	220 ... 250		**3VL9400-3MQ00**		1	1 unit	1CC
				For VL630 and VL800 (3VL5 and 3VL6)				
	--	24		**3VL9600-3MJ00**		1	1 unit	1CC
	42 ... 48	42 ... 48		**3VL9600-3ML00**		1	1 unit	1CC
	110 ... 127	110 ... 127		**3VL9600-3MN00**		1	1 unit	1CC
	220 ... 250	220 ... 250		**3VL9600-3MQ00**		1	1 unit	1CC
Motorized operating mechanisms (MO)[1)] Degree of protection IP30, with locking device for 3 padlocks				**For VL160X (3VL1)**				
	--	24		**3VL9100-3MA10**		1	1 unit	1CC
	42 ... 60	42 ... 60		**3VL9100-3MC10**		1	1 unit	1CC
	110 ... 127	110 ... 127		**3VL9100-3MD10**		1	1 unit	1CC
	220 ... 250	220 ... 250		**3VL9100-3ME10**		1	1 unit	1CC
				For VL160 and VL250 (3VL2 and 3VL3)				
	--	24		**3VL9300-3MA10**		1	1 unit	1CC
	42 ... 60	42 ... 60		**3VL9300-3MC10**		1	1 unit	1CC
	110 ... 127	110 ... 127		**3VL9300-3MD10**		1	1 unit	1CC
	220 ... 250	220 ... 250		**3VL9300-3ME10**		1	1 unit	1CC
				For VL400 (3VL4)				
	--	24		**3VL9400-3MA10**		1	1 unit	1CC
	42 ... 60	42 ... 60		**3VL9400-3MC10**		1	1 unit	1CC
	110 ... 127	110 ... 127		**3VL9400-3MD10**		1	1 unit	1CC
	220 ... 250	220 ... 250		**3VL9400-3ME10**		1	1 unit	1CC
				For VL630 and VL800 (3VL5 and 3VL6)				
	--	24		**3VL9600-3MA10**		1	1 unit	1CC
	42 ... 60	42 ... 60		**3VL9600-3MC10**		1	1 unit	1CC
	110 ... 127	110 ... 127		**3VL9600-3MD10**		1	1 unit	1CC
	220 ... 250	220 ... 250		**3VL9600-3ME10**		1	1 unit	1CC
				For VL1250 and VL1600[2)] (3VL7 and 3VL8)				
	--	24		**3VL9800-3MJ00**		1	1 unit	1CC
	42 ... 48	42 ... 48		**3VL9800-3ML00**		1	1 unit	1CC
	110 ... 127	110 ... 127		**3VL9800-3MN00**		1	1 unit	1CC
	220 ... 250	220 ... 250		**3VL9800-3MQ00**		1	1 unit	1CC

Handle lever extension

Handle lever extension								
				For VL400 to VL1600 (3VL4 to 3VL8)				
• For VL400 (3VL4)				**3VL9400-3HN00**		1	1 unit	1CC
• For VL630 and VL800 (3VL5 and 3VL6)				**3VL9600-3HN00**		1	1 unit	1CC
• For VL1250 and VL1600 (3VL7 and 3VL8)				**3VL9800-3HN00**		1	1 unit	1CC

1) Not possible on VL160X with RCD module.
2) For safety lock as an assembly kit for retrofitting, see pages 2/296 to 2/300.

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

© Siemens 2019

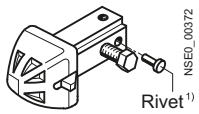
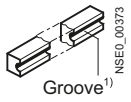
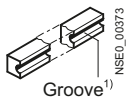
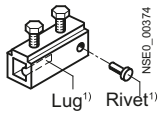
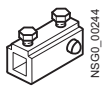
Individual parts for 8UC door-coupling rotary operating mechanisms[2]

	Switching devices	Rotary operating mechanisms	Size	Cross-section of the actuating shaft	Version[1]	SD	Individual parts for 8UC7 door-coupling rotary operating mechanisms	PU (UNIT, SET, M)	PS	PG
	Type	Type		mm × mm		d	Article No. www.siemens.com/product?Article No. Price per PU			
	Handles with masking plate (including flat gasket and fixing screws)									
8UC7110-6BD	3VL1, 3VL2, 3VL3	8UC71	1	6 × 6 or 8 × 8	Standard EMERGENCY STOP		**8UC7110-6BD** **8UC7120-8BD**	1 1	1 unit 1 unit	1CL 1CL
8UC7210-6BD	3VL4, 3VL5, 3VL6	8UC72	2	8 × 8	Standard EMERGENCY STOP		**8UC7210-6BD** **8UC7220-8BD**	1 1	1 unit 1 unit	1CL 1CL
8UC7310-6BD	3VL7, 3VL8	8UC73	3	12 × 12	Standard EMERGENCY STOP		**8UC7310-6BD** **8UC7320-8BD**	1 1	1 unit 1 unit	1CL 1CL

[1] Standard: Ti-gray handle, light-gray masking plate; EMERGENCY STOP: red handle, yellow masking plate.

[2] Cannot be used for side panel rotary operating mechanisms.

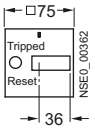
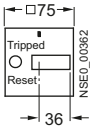
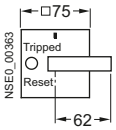
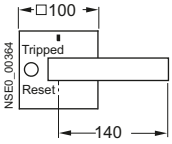
Individual parts for 8UC door-coupling rotary operating mechanisms

	Rotary operating mechanisms	Cross-section of the actuating shaft	SD	Individual parts for 8UC6 door-coupling rotary operating mechanisms	PU (UNIT, SET, M)	PS	PG
	Type	mm × mm	d	Article No. www.siemens.com/product?Article No. Price per PU			
 8UC6014	**Coupling drivers for 3VL**						
	8UC71 (plastic)	6 × 6		**8UC7011-2AA**	1	1 unit	1CL
	8UC71/8UC72[2] (die cast)	8 × 8		**8UC6017-2AA**	1	1 unit	1CL
	8UC73/74 (die cast)	12 × 12		**8UC6014**	1	1 unit	1CL
 8UC6031	**Extension shafts 300 mm long**						
	8UC71	6 × 6		**8UC6031**	1	1 unit	1CL
	8UC71/8UC72	8 × 8		**8UC6032**	1	1 unit	1CL
	8UC73	10 × 10		**8UC6033**	1	1 unit	1CL
	8UC73/74	12 × 12		**8UC6034**	1	1 unit	1CL
 8UC6081	**Extension shafts 600 mm long**						
	8UC71	6 × 6		**8UC6081**	1	1 unit	1CL
	8UC71/8UC72	8 × 8		**8UC6082**	1	1 unit	1CL
	8UC73	10 × 10		**8UC6083**	1	1 unit	1CL
	8UC73/74	12 × 12		**8UC6084**	1	1 unit	1CL
 8UC6021 to 8UC6024	**Shaft couplings**						
	8UC71	6 × 6		**8UC6021**	1	1 unit	1CL
	8UC72	8 × 8		**8UC6022**	1	1 unit	1CL
	8UC73	10 × 10		**8UC6023**	1	1 unit	1CL
	8UC73/74	12 × 12		**8UC6024**	1	1 unit	1CL
 8UC7058	**Reducers**						
	8UC71	8 × 8 to 6 × 6		**8UC7058**	1	1 unit	1CL
	8UC72	12 × 12 to 8 × 8		**8UC7050**	1	1 unit	1CL

[1] Non-interchangeability features.

[2] Shortened coupling driver with reduced tolerance compensation.

© Siemens 2019

	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 3VL9 300-3H.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 2/274 to 2/277.

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

© Siemens 2019

Version	SD	**Rotary operating mechanisms, complete**[1]		PU (UNIT, SET, M)	PS	PG	Individual parts of the rotary operating mechanism			
Standard: Ti-gray handle, light gray masking plate; EMERGENCY STOP: Red handle, yellow masking plate		Article No. www.siemens.com/product?Article No.	Price per PU				Handle with masking plate	Coupling drivers	Extension shaft (length 300 mm)	Reducer/ shaft coupling
	d						Article No.	Article No.	Article No.	Article No.
								☐ 6 mm	**☐ 6 mm**	**☐ 8 mm by 6 mm**
Standard		**8UC7111-6BD15**		1	1 unit	1CL	8UC7110-6BD	8UC7011-2AA	8UC6031	8UC7058
EMERGENCY STOP		**8UC7121-8BD15**		1	1 unit	1CL	8UC7120-8BD	8UC7011-2AA	8UC6031	8UC7058
(Coupling driver made of plastic)										
								☐ 8 mm	**☐ 8 mm**	**☐ 8 mm by 8 mm**
Standard		**8UC7162-6BD22**		1	1 unit	1CL	8UC7110-6BD	8UC6017-2AA	8UC6032	8UC6022
EMERGENCY STOP		**8UC7172-8BD22**		1	1 unit	1CL	8UC7120-8BD	8UC6017-2AA	8UC6032	8UC6022
(Die cast coupling driver with reduced tolerance compensation)										
								☐ 8 mm	**☐ 8 mm**	**☐ 12 mm by 8 mm**
Standard		**8UC7262-6BD26**		1	1 unit	1CL	8UC7210-6BD	8UC6017-2AA	8UC6032	8UC7050
EMERGENCY STOP		**8UC7262-8BD26**		1	1 unit	1CL	8UC7220-8BD	8UC6017-2AA	8UC6032	8UC7050
(Die cast coupling driver with reduced tolerance compensation)										
								☐ 12 mm	**☐ 12 mm**	**☐ 12 mm by 12 mm**
Standard		**8UC7314-6BD44**		1	1 unit	1CL	8UC7310-6BD	8UC6014	8UC6034	8UC6024
EMERGENCY STOP		**8UC7324-8BD44**		1	1 unit	1CL	8UC7320-8BD	8UC6014	8UC6034	8UC6024
(Die cast coupling driver)										

© Siemens 2019

	Version	SD	For VL160X (3VL1) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
Plug-in versions/withdrawable versions							
	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 connections						
	3-pole		**3VL9100-4PA30**		1	1 unit	1CC
	4-pole		**3VL9100-4PA40**		1	1 unit	1CC
	Front connections						
	3-pole		**3VL9100-4PC30**		1	1 unit	1CC
	4-pole		**3VL9100-4PC40**		1	1 unit	1CC
3VL9.00-4WA30	**Withdrawable versions** Same as plug-in base assembly kit, with additional side panels and racking mechanism						
	Rear connections						
	3-pole		--				
	4-pole		--				
	Front connections						
	3-pole		--				
	4-pole		--				
	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
	1 set = 8 units 4-pole		**3VL9100-4PS40**		1	1 unit	1CC
	Trip pins and springs						
	As replacement for plug-in/withdrawable circuit breaker		**3VL9100-4PF00**		1	1 unit	1CC
	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
3VL9000-4WL00	**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

[1] It is recommended to use a maximum of 2 auxiliary circuit plug-in systems per circuit breaker (16 terminals).

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

© Siemens 2019

SD d	For VL160 (3VL2) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD d	For VL250 (3VL3) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VL9200-4PA30		1	1 unit	1CC		**3VL9300-4PA30**		1	1 unit	1CC
	3VL9200-4PA40		1	1 unit	1CC		**3VL9300-4PA40**		1	1 unit	1CC
	3VL9200-4PC30		1	1 unit	1CC		**3VL9300-4PC30**		1	1 unit	1CC
	3VL9200-4PC40		1	1 unit	1CC		**3VL9300-4PC40**		1	1 unit	1CC
	3VL9200-4WA30		1	1 unit	1CC		**3VL9300-4WA30**		1	1 unit	1CC
	3VL9200-4WA40		1	1 unit	1CC		**3VL9300-4WA40**		1	1 unit	1CC
	3VL9200-4WC30		1	1 unit	1CC		**3VL9300-4WC30**		1	1 unit	1CC
	3VL9200-4WC40		1	1 unit	1CC		**3VL9300-4WC40**		1	1 unit	1CC
	3VL9200-4PS30		1	1 unit	1CC		**3VL9300-4PS30**		1	1 unit	1CC
	3VL9200-4PS40		1	1 unit	1CC		**3VL9300-4PS40**		1	1 unit	1CC
	3VL9300-4PF00		1	1 unit	1CC		**3VL9300-4PF00**		1	1 unit	1CC
	1)						**1)**				
	3VL9300-4PJ00		1	1 unit	1CC		**3VL9300-4PJ00**		1	1 unit	1CC
	3VL9000-4WL00		1	1 unit	1CC		**3VL9000-4WL00**		1	1 unit	1CC

© Siemens 2019

	Version	SD	For VL400 (3VL4) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
Plug-in versions/withdrawable versions							
	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 connections						
	3-pole		**3VL9400-4PA30**		1	1 unit	1CC
	4-pole		**3VL9400-4PA40**		1	1 unit	1CC
	Front connections						
	3-pole		**3VL9400-4PC30**		1	1 unit	1CC
	4-pole		**3VL9400-4PC40**		1	1 unit	1CC
3VL9.00-4WA30	**Withdrawable versions** Same as plug-in base assembly kit, with additional side panels and racking mechanism						
	Rear connections[3]						
	3-pole		**3VL9400-4WA30**		1	1 unit	1CC
	4-pole		**3VL9400-4WA40**		1	1 unit	1CC
	Front connections						
	3-pole		**3VL9400-4WC30**		1	1 unit	1CC
	4-pole		**3VL9400-4WC40**		1	1 unit	1CC
	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 set = 8 units 4-pole		**3VL9400-4PS40**		1	1 unit	1CC
	Trip pins and springs						
	As replacement for plug-in/withdrawable circuit breaker		**3VL9400-4PF00**		1	1 unit	1CC
	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
3VL9000-4WL00	**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

[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.

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

© Siemens 2019

SD	For VL630 (3VL5)		PU (UNIT, SET, M)	PS	PG	SD	For VL800 (3VL6)		PU (UNIT, SET, M)	PS	PG
	Article No. www.siemens.com/product?Article No.	Price per PU					Article No. www.siemens.com/product?Article No.	Price per PU			
d						d					
	3VL9500-4PA30		1	1 unit	1CC		**--**				
	3VL9500-4PA40		1	1 unit	1CC		**--**				
	3VL9500-4PC30		1	1 unit	1CC		**--**				
	3VL9500-4PC40		1	1 unit	1CC		**--**				
	3VL9500-4WA30		1	1 unit	1CC		**3VL9600-4WA30**		1	1 unit	1CC
	3VL9500-4WA40		1	1 unit	1CC		**3VL9600-4WA40**		1	1 unit	1CC
	3VL9500-4WC30		1	1 unit	1CC		**3VL9600-4WC30**		1	1 unit	1CC
	3VL9500-4WC40		1	1 unit	1CC		**3VL9600-4WC40**		1	1 unit	1CC
	3VL9500-4PS30		1	1 unit	1CC		**3VL9600-4PS30**		1	1 unit	1CC
	3VL9500-4PS40		1	1 unit	1CC		**3VL9600-4PS40**		1	1 unit	1CC
	3VL9500-4PF00		1	1 unit	1CC		**3VL9600-4PF00**		1	1 unit	1CC
	2)						**2)**				
	3VL9600-4PJ00		1	1 unit	1CC		**3VL9600-4PJ00**		1	1 unit	1CC
	3VL9000-4WL00		1	1 unit	1CC		**3VL9000-4WL00**		1	1 unit	1CC

© Siemens 2019

	Version	SD	For VL1250 (3VL7) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
Plug-in versions/withdrawable versions							
	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 connections						
	3-pole		--				
	4-pole		--				
	Front connections						
	3-pole		--				
	4-pole		--				
3VL9.00-4WA30	**Withdrawable versions** Same as plug-in base assembly kit, with additional side panels and racking mechanism						
	Rear connections[1]						
	3-pole		**3VL9800-4WA30**		1	1 unit	1CC
	4-pole		**3VL9800-4WA40**		1	1 unit	1CC
	Front connections						
	3-pole		**3VL9800-4WC30**		1	1 unit	1CC
	4-pole		**3VL9800-4WC40**		1	1 unit	1CC
	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		**3VL9800-4PS30**		1	1 unit	1CC
	1 set = 8 units 4-pole		**3VL9800-4PS40**		1	1 unit	1CC
	Trip pins and springs As replacement for plug-in/withdrawable circuit breaker		**3VL9800-4PF00**		1	1 unit	1CC
	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		**3VL9800-4PJ00**		1	1 unit	1CC
3VL9000-4WL00	**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

[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).

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

© Siemens 2019

SD	For VL1600 (3VL8)		PU (UNIT, SET, M)	PS	PG
	Article No. www.siemens.com/product?Article No.	Price per PU			
d					
	--				
	--				
	--				
	--				
	3VL9800-4WA30		1	1 unit	1CC
	3VL9800-4WA40		1	1 unit	1CC
	3VL9800-4WC30		1	1 unit	1CC
	3VL9800-4WC40		1	1 unit	1CC
	3VL9800-4PS30		1	1 unit	1CC
	3VL9800-4PS40		1	1 unit	1CC
	3VL9800-4PF00		1	1 unit	1CC
	2)				
	3VL9800-4PJ00		1	1 unit	1CC
	3VL9000-4WL00		1	1 unit	1CC

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

© Siemens 2019

RCD modules

Molded case circuit breakers VL160X to VL400 with RCD module mounted below the circuit breaker

Circuit breakers for line protection, **only for TM, starters, disconnectors**	Rated current I_n	Residual currents I adjustable	Delay t_d adjustable	Rated operational voltage U_e	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	s	V AC	d					
3-pole										
VL160X (3VL1)		0.03	Instantaneous							
Bottom mounting[1)2)]	160	0.10	0.06	127 ... 480		**3VL9112-5GA30**		1	1 unit	1CC
VL160 (3VL2)	160	0.30	0.10	127 ... 480		**3VL9216-5GC30**		1	1 unit	1CC
		0.50	0.25	230 ... 690		**3VL9216-5GD30**		1	1 unit	1CC
VL250 (3VL3)	250	1.00	0.50	127 ... 480		**3VL9325-5GE30**		1	1 unit	1CC
		3.00	1.00	230 ... 690		**3VL9325-5GF30**		1	1 unit	1CC
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
VL160 (3VL2)	160	0.30	0.10	127 ... 480		**3VL9216-5GC40**		1	1 unit	1CC
		0.50	0.25	230 ... 690		**3VL9216-5GD40**		1	1 unit	1CC
VL250 (3VL3)	250	1.00	0.50	127 ... 480		**3VL9325-5GE40**		1	1 unit	1CC
		3.00	1.00	230 ... 690		**3VL9325-5GF40**		1	1 unit	1CC
VL400 (3VL4)	400			127 ... 480		**3VL9440-5GG40**		1	1 unit	1CC
				230 ... 690		**3VL9440-5GH40**		1	1 unit	1CC

Circuit breakers with RCD module

Circuit breakers for line protection, **only for TM, starters, disconnectors**	Rated current I_n	Residual currents I adjustable	Delay t_d adjustable	Rated operational voltage U_e	**3-pole circuit breakers** Article No. with **"-Z"** **3VL....-.D...-....-Z** and additional order code	Additional price	**4-pole circuit breakers** Article No. with **"-Z"** **3VL....-.E...-....-Z** and additional order code	Additional price
					☐☐☐ Code for further versions **-Z**		☐☐☐ Code for further versions **-Z**	
	A	A	s	V AC				
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 crrents 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".

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 cable interlocking.

© Siemens 2019

	Version		SD	For VL160X (3VL1) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			d					
Connection parts for fixed-mounted circuit breakers[1]								
	3- or 4-pole							
	Front connecting bars[2] Phase barriers included.							
	Standard							
 3VL9216-4EC40	1 set = 3 units	3-pole		**3VL9216-4EC30**		1	1 unit	1CC
	1 set = 4 units	4-pole		**3VL9216-4EC40**		1	1 unit	1CC
	For increased pole spacing							
 3VL9216-4ED40	1 set = 3 units	3-pole		**3VL9216-4ED30**		1	1 unit	1CC
	1 set = 4 units	4-pole		**3VL9216-4ED40**		1	1 unit	1CC
	Rear connections							
 3VL9.00-4RA00, 3VL9.00-4RB00	Short connection (1 unit)			**3VL9100-4RA00**		1	1 unit	1CC
	Long connection (1 unit)			**3VL9100-4RB00**		1	1 unit	1CC
	Terminal kit (2 short + 1 long) 3-pole			**3VL9100-4RC30**		1	1 unit	1CC
	Terminal kit (2 short + 2 long) 4-pole			**3VL9100-4RF40**		1	1 unit	1CC
 3VL9.00-4RK00, 3VL9.00-4RL00	Short flat connection (1 unit)			**3VL9100-4RK00**		1	1 unit	1CC
	Long flat connection (1 unit)			**3VL9100-4RL00**		1	1 unit	1CC
	Flat connector kit (2 short + 1 long) 3-pole			**3VL9100-4RM30**		1	1 unit	1CC
	Flat connector kit (2 short + 2 long) 4-pole			**3VL9100-4RN40**		1	1 unit	1CC
 3VL9.00-4TC.0	**Box terminals** 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
	1 set = 4 units			**3VL9100-4TC40**		1	1 unit	1CC
 3VL9.00-4TD.0	**Circular conductor terminals** Only for cables (Al or Cu), aluminum terminal (tinned)							
	1 set = 3 units			**3VL9100-4TD30**		1	1 unit	1CC
	1 set = 4 units			**3VL9100-4TD40**		1	1 unit	1CC
	Circular conductor terminals with terminal covers for cables (Al or Cu)							
	1 set = 3 units			**3VL9115-4TD30**		1	1 unit	1CC
	1 set = 4 units			**3VL9115-4TD40**		1	1 unit	1CC
	Auxiliary conductor terminals For box terminals/circular conductor terminals 1 set = 10 units			**3VL9200-3TN00**		1	1 unit	1CC
 3VL9...-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			**3VL9116-4TA30**		1	1 unit	1CC
	1 set = 4 units			**3VL9116-4TA40**		1	1 unit	1CC
 NSE0_00730 3VL9.00-8CB.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
	Standard	3-pole		**3VL9300-8CB30**		1	1 unit	1CC
	Extended	4-pole		**3VL9300-8CA40**		1	1 unit	1CC
	Standard	4-pole		**3VL9300-8CB40**		1	1 unit	1CC
 NSE0_00731 3VL9.00-8CE00	**Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions** 1 set = 2 units			**3VL9300-8CE00**		1	1 unit	1CC

[1] For an overview of connectable connection parts, see page 2/219.

[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.

© Siemens 2019

	Version		SD	For VL160 (3VL2) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			d					
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
	1 set = 4 units	4-pole		**3VL9216-4EC40**		1	1 unit	1CC
3VL9216-4ED40	For increased pole spacing							
	1 set = 3 units	3-pole		**3VL9216-4ED30**		1	1 unit	1CC
	1 set = 4 units	4-pole		**3VL9216-4ED40**		1	1 unit	1CC
3VL9.00-4R.00	**Rear connections**							
	Short connection (1 unit)			**3VL9200-4RA00**		1	1 unit	1CC
	Long connection (1 unit)			**3VL9200-4RB00**		1	1 unit	1CC
	Terminal kit (2 short + 1 long) 3-pole			**3VL9200-4RC30**		1	1 unit	1CC
	Terminal kit (2 short + 2 long) 4-pole			**3VL9200-4RF40**		1	1 unit	1CC
3VL9.00-4R.00	Short flat connection (1 unit)			**3VL9200-4RK00**		1	1 unit	1CC
	Long flat connection (1 unit)			**3VL9200-4RL00**		1	1 unit	1CC
	Flat connector kit (2 short + 1 long) 3-pole			**3VL9200-4RM30**		1	1 unit	1CC
	Flat connector kit (2 short + 2 long) 4-pole			**3VL9200-4RN40**		1	1 unit	1CC
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
	1 set = 4 units			**3VL9200-4TC40**		1	1 unit	1CC
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
	1 set = 4 units			**3VL9200-4TD40**		1	1 unit	1CC
	Circular conductor terminals with terminal covers for cables (Al or Cu)							
	1 set = 3 units			**3VL9215-4TD30**		1	1 unit	1CC
	1 set = 4 units			**3VL9215-4TD40**		1	1 unit	1CC
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
3VL9...-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
	1 set = 4 units			**3VL9216-4TA40**		1	1 unit	1CC
NSE0_00730 3VL9.00-8CB.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
	Standard	3-pole		**3VL9300-8CB30**		1	1 unit	1CC
	Extended	4-pole		**3VL9300-8CA40**		1	1 unit	1CC
	Standard	4-pole		**3VL9300-8CB40**		1	1 unit	1CC
NSE0_00731 3VL9.00-8CB.0	**Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions**							
	1 set = 2 units			**3VL9300-8CE00**		1	1 unit	1CC

[1] For an overview of connectable connection parts, see page 2/219.

[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.

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

© Siemens 2019

SD d	For VL250 (3VL3) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD d	For VL400 (3VL4) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VL9300-4EC30		1	1 unit	1CC		**3VL9400-4EC30**		1	1 unit	1CC
	3VL9300-4EC40		1	1 unit	1CC		**3VL9400-4EC40**		1	1 unit	1CC
	3VL9300-4ED30		1	1 unit	1CC		**3VL9400-4ED30**		1	1 unit	1CC
	3VL9300-4ED40		1	1 unit	1CC		**3VL9400-4ED40**		1	1 unit	1CC
	3VL9300-4RA00		1	1 unit	1CC		**3VL9400-4RA00**		1	1 unit	1CC
	3VL9300-4RB00		1	1 unit	1CC		**3VL9400-4RB00**		1	1 unit	1CC
	3VL9300-4RC30		1	1 unit	1CC		**3VL9400-4RC30**		1	1 unit	1CC
	3VL9300-4RF40		1	1 unit	1CC		**3VL9400-4RF40**		1	1 unit	1CC
	3VL9300-4RK00		1	1 unit	1CC		**3VL9400-4RK00**		1	1 unit	1CC
	3VL9300-4RL00		1	1 unit	1CC		**3VL9400-4RL00**		1	1 unit	1CC
	3VL9300-4RM30		1	1 unit	1CC		**3VL9400-4RM30**		1	1 unit	1CC
	3VL9300-4RN40		1	1 unit	1CC		**3VL9400-4RN40**		1	1 unit	1CC
	3VL9300-4TC30		1	1 unit	1CC		**3VL9400-4TC30**		1	1 unit	1CC
	3VL9300-4TC40		1	1 unit	1CC		**3VL9400-4TC40**		1	1 unit	1CC
	3VL9300-4TD30		1	1 unit	1CC		**3VL9400-4TD30**		1	1 unit	1CC
	3VL9300-4TD40		1	1 unit	1CC		**3VL9400-4TD40**		1	1 unit	1CC
	3VL9324-4TD30		1	1 unit	1CC		**--**				
	3VL9324-4TD40		1	1 unit	1CC		**--**				
	--						**3VL9400-4TF30**		1	1 unit	1CC
	--						**3VL9400-4TF40**		1	1 unit	1CC
	--						**3VL9460-4TF30**		1	1 unit	1CC
	--						**3VL9460-4TF40**		1	1 unit	1CC
	3VL9300-3TN00		1	1 unit	1CC		**3VL9400-3TN00**		1	1 unit	1CC
	3VL9300-4TA30		1	1 unit	1CC		**3VL9400-4TA30**		1	1 unit	1CC
	3VL9300-4TA40		1	1 unit	1CC		**3VL9400-4TA40**		1	1 unit	1CC
	3VL9300-8CA30		1	1 unit	1CC		**3VL9400-8CA30**		1	1 unit	1CC
	3VL9300-8CB30		1	1 unit	1CC		**3VL9400-8CB30**		1	1 unit	1CC
	3VL9300-8CA40		1	1 unit	1CC		**3VL9400-8CA40**		1	1 unit	1CC
	3VL9300-8CB40		1	1 unit	1CC		**3VL9400-8CB40**		1	1 unit	1CC
	3VL9300-8CE00		1	1 unit	1CC		**3VL9600-8CE00**		1	1 unit	1CC

© Siemens 2019

	Version		SD	For VL630 (3VL5) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			d					
Connection parts for fixed-mounted circuit breakers[1]								
	3- or 4-pole							
	Front connecting bars Phase barriers included.							
	Standard							
 3VL9500-4EC40	1 set = 3 units	3-pole		**3VL9500-4EC30**		1	1 unit	1CC
	1 set = 4 units	4-pole		**3VL9500-4EC40**		1	1 unit	1CC
	For increased pole spacing							
 3VL9500-4ED40	1 set = 3 units	3-pole		**3VL9500-4ED30**		1	1 unit	1CC
	1 set = 4 units	4-pole		**3VL9500-4ED40**		1	1 unit	1CC
 3VL9.00-4RG00	Flat connecting bar (1 unit)			**3VL9500-4RG00**		1	1 unit	1CC
	Flat connecting bars Set = 3 units, 3-pole			**3VL9500-4RH30**		1	1 unit	1CC
	Flat connecting bars Set = 4 units, 4-pole			**3VL9500-4RH40**		1	1 unit	1CC
 3VL9.00-4TG.0	**Multiple feed-in terminals** Only for cables (Al or Cu) Aluminum terminal (tinned)							
	1 set = 3 units			**3VL9500-4TG30**		1	1 unit	1CC
	1 set = 4 units			**3VL9500-4TG40**		1	1 unit	1CC
	Auxiliary conductor terminals For multiple feed-in terminals 1 set = 10 units			**3VL9400-3TN00**		1	1 unit	1CC
 3VL9.00-4TT.0	**Terminal plates**[2] 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 set = 4 units			**3VL9500-4TT40**		1	1 unit	1CC
 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			**3VL9500-4TA30**		1	1 unit	1CC
	1 set = 4 units			**3VL9500-4TA40**		1	1 unit	1CC
 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		**3VL9600-8CA30**		1	1 unit	1CC
	Standard	3-pole		**3VL9600-8CB30**		1	1 unit	1CC
	Extended	4-pole		**3VL9600-8CA40**		1	1 unit	1CC
	Standard	4-pole		**3VL9600-8CB40**		1	1 unit	1CC
 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

[1] For an overview of connectable connection parts, see page 2/219.

[2] Front connecting bars included in scope of supply; not for 690 V AC/600 V DC.

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

© Siemens 2019

SD d	For VL800 (3VL6) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD d	For VL1250 (3VL7) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VL9600-4EC30		1	1 unit	1CC		**3VL9800-4EC30**		1	1 unit	1CC
	3VL9600-4EC40		1	1 unit	1CC		**3VL9800-4EC40**		1	1 unit	1CC
	3VL9600-4ED30		1	1 unit	1CC		**--**				
	3VL9600-4ED40		1	1 unit	1CC		**--**				
	3VL9600-4RG00		1	1 unit	1CC		**3VL9700-4RG00**		1	1 unit	1CC
	3VL9600-4RH30		1	1 unit	1CC		**3VL9700-4RH30**		1	1 unit	1CC
	3VL9600-4RH40		1	1 unit	1CC		**3VL9700-4RH40**		1	1 unit	1CC
	3VL9600-4TG30		1	1 unit	1CC		**3VL9700-4TG30**		1	1 unit	1CC
	3VL9600-4TG40		1	1 unit	1CC		**3VL9700-4TG40**		1	1 unit	1CC
	3VL9400-3TN00		1	1 unit	1CC		**3VL9400-3TN00**		1	1 unit	1CC
	--						**--**				
	--						**--**				
	3VL9600-4TA30		1	1 unit	1CC		**3VL9800-4TA30**		1	1 unit	1CC
	3VL9600-4TA40		1	1 unit	1CC		**3VL9800-4TA40**		1	1 unit	1CC
	3VL9600-8CA30		1	1 unit	1CC		**3VL9800-8CA30**		1	1 unit	1CC
	3VL9600-8CB30		1	1 unit	1CC		**3VL9800-8CB30**		1	1 unit	1CC
	3VL9600-8CA40		1	1 unit	1CC		**3VL9800-8CA40**		1	1 unit	1CC
	3VL9600-8CB40		1	1 unit	1CC		**3VL9800-8CB40**		1	1 unit	1CC
	3VL9600-8CE00		1	1 unit	1CC		**3VL9800-8CE00**		1	1 unit	1CC

[3] Plug-in versions: not for VL1250 (3VL7),
withdrawable versions: not for VL800 (3VL6) and VL1250 (3VL7).

© Siemens 2019

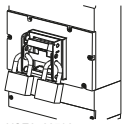
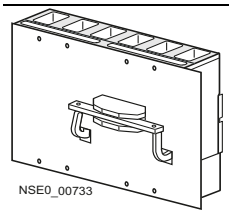
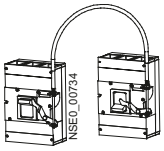
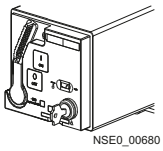
	Version		SD	For VL1600 (3VL8) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			d					
Connection parts for fixed-mounted circuit breakers[1]								
	3- or 4-pole							
	Front connecting bars Phase barriers included.							
 3VL9800-4EC40	Standard[2]							
	1 set = 3 units	3-pole		**3VL9800-4EC30**		1	1 unit	1CC
	1 set = 4 units	4-pole		**3VL9800-4EC40**		1	1 unit	1CC
 3VL9800-4ED40	For increased pole spacing							
	1 set = 3 units	3-pole		--				
	1 set = 4 units	4-pole		--				
 3VL9.00-4RG00	**Rear connections**							
	Flat connecting bar (1 unit)			**3VL9800-4RG00**		1	1 unit	1CC
	Flat connecting bars Set = 3 units, 3-pole			**3VL9800-4RH30**		1	1 unit	1CC
	Flat connecting bars Set = 4 units, 4-pole			**3VL9800-4RH40**		1	1 unit	1CC
 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			**3VL9800-4TA30**		1	1 unit	1CC
	1 set = 4 units			**3VL9800-4TA40**		1	1 unit	1CC
 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		**3VL9800-8CA30**		1	1 unit	1CC
	Standard	3-pole		**3VL9800-8CB30**		1	1 unit	1CC
	Extended	4-pole		**3VL9800-8CA40**		1	1 unit	1CC
	Standard	4-pole		**3VL9800-8CB40**		1	1 unit	1CC
 NSE0_00731 3VL9.00-8CE00	**Phase barriers for circuit breakers, fixed-mounted**							
	1 set = 2 units			**3VL9800-8CE00**		1	1 unit	1CC

[1] For an overview of connectable connection parts, see page 2/219.

[2] In scope of supply of circuit breaker.

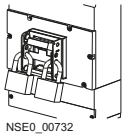
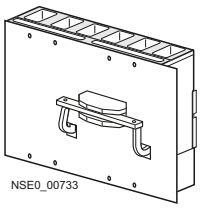
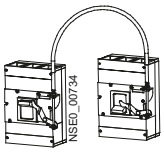
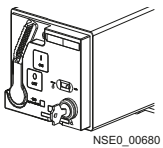
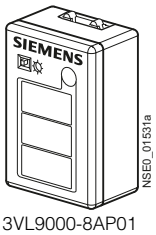
Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

	Version	SD	For VL160X (3VL1) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
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 a diameter of 5 – 8 mm can be used. Removable (padlocks not included)		**3VL9300-3HL00**		1	1 unit	1CC
 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 frame size. (Mounting plate not included in scope of supply)						
	Fixed-mounted circuit breakers		**3VL9300-8LC00**		1	1 unit	1CC
 NSE0_00734 3VL9.00-8LA00	**Interlocking modules for Bowden cable 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
	Bowden cables for Bowden cable interlocking[1]						
	Cable length 0.5 m		**3VL9000-8LH10**		1	1 unit	1CC
	Cable length 1.0 m		**3VL9000-8LH20**		1	1 unit	1CC
	Cable length 1.5 m		**3VL9000-8LH30**		1	1 unit	1CC
 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
	For motorized operating mechanism with stored energy mechanism						
	Lock types						
	Ronis		--				
	Filli Giussani		**3VL9321-8HA00**		1	1 unit	1CC
	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

[1] Two interlocking modules and one Bowden cable are required. Cannot be used in conjunction with motorized operating mechanism and withdrawable version!

© Siemens 2019

	Version	SD	For VL160 (3VL2) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
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 a diameter of 5 – 8 mm can be used. Removable (padlocks not included)		**3VL9300-3HL00**		1	1 unit	1CC
 NSE0_00733 3VL9.00-8L.00	**Rear interlocking modules** For the mechanical interlocking of two adjacent circuit brakers. The circuit breakers must be of the same installation type and frame size. (Mounting plate not included in scope of supply) Fixed-mounted circuit breakers		**3VL9300-8LC00**		1	1 unit	1CC
 NSE0_00734 3VL9.00-8LA00	**Interlocking modules for Bowden cable interlocking**[1] For the mechanical interlocking of two circuit breakers.		Combinations with next size up/down possible (see Article No.)				
	Interlocking module for one circuit breaker		**3VL9300-8LA00**		1	1 unit	1CC
	Bowden cables for Bowden cable interlocking[1]						
	Cable length 0.5 m		**3VL9000-8LH10**		1	1 unit	1CC
	Cable length 1.0 m		**3VL9000-8LH20**		1	1 unit	1CC
	Cable length 1.5 m		**3VL9000-8LH30**		1	1 unit	1CC
 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
	For motorized operating mechanism with stored energy mechanism						
	Lock types						
	Ronis		**--**				
	Filli Giussani		**3VL9321-8HA00**		1	1 unit	1CC
	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
 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

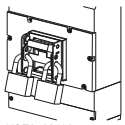
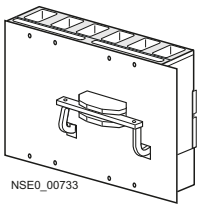
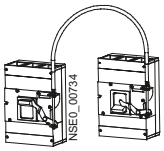
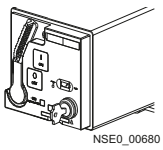
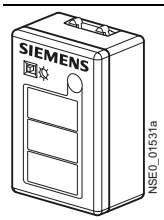
[1] Two interlocking modules and one Bowden cable are required.
Cannot be used in conjunction with motorized operating mechanism and withdrawable version!

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

© Siemens 2019

SD d	For VL250 (3VL3) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD d	For VL400 (3VL4) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VL9300-3HL00		1	1 unit	1CC		**3VL9400-3HL00**		1	1 unit	1CC
	3VL9300-8LC00		1	1 unit	1CC		**3VL9400-8LC00**		1	1 unit	1CC
	3VL9300-8LA00		1	1 unit	1CC		**3VL9400-8LA00**		1	1 unit	1CC
	3VL9000-8LH10		1	1 unit	1CC		**--**				
	3VL9000-8LH20		1	1 unit	1CC		**3VL9000-8LH20**		1	1 unit	1CC
	3VL9000-8LH30		1	1 unit	1CC		**3VL9000-8LH30**		1	1 unit	1CC
	3VL9715-8HA00		1	1 unit	1CC		**3VL9715-8HA00**		1	1 unit	1CC
	--						**3VL9715-8HA00**		1	1 unit	1CC
	3VL9321-8HA00		1	1 unit	1CC		**--**				
	3VL9300-8SA40		1	1 unit	1CC		**3VL9500-8SA40**		1	1 unit	1CC
	3VL9000-8AP01		1	1 unit	1CC		**3VL9000-8AP01**		1	1 unit	1CC

© Siemens 2019

	Version	SD	For VL630 (3VL5) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
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 a diameter of 5 – 8 mm can be used. Removable (padlocks not included)		**3VL9600-3HL00**		1	1 unit	1CC
 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 frame size. (Mounting plate not included in scope of supply) Fixed-mounted circuit breakers		**3VL9600-8LC00**		1	1 unit	1CC
 NSE0_00734 3VL9.00-8LA00	**Interlocking modules for Bowden cable interlocking**[1] For the mechanical interlocking of two circuit breakers.		Combinations with next size up/down possible (see Article No.)				
	Interlocking module for one circuit breaker		**3VL9600-8LA00**		1	1 unit	1CC
	Bowden cables for Bowden cable interlocking[1]						
	Cable length 0.5 m		**--**				
	Cable length 1.0 m		**3VL9000-8LH20**		1	1 unit	1CC
	Cable length 1.5 m		**3VL9000-8LH30**		1	1 unit	1CC
 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
	For motorized operating mechanism with stored energy mechanism						
	Lock types						
	Ronis		**3VL9715-8HA00**		1	1 unit	1CC
	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
 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

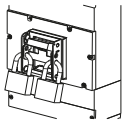
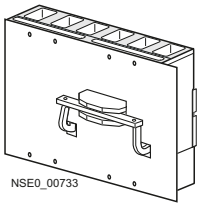
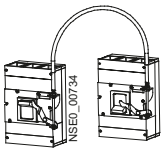
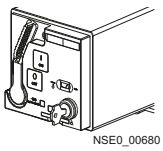
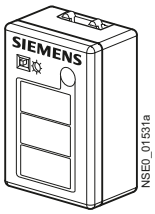
[1] Two interlocking modules and one Bowden cable are required. Cannot be used in conjunction with motorized operating mechanism and withdrawable version!

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

© Siemens 2019

SD d	For VL800 (3VL6) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD d	For VL1250 (3VL7) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VL9600-3HL00		1	1 unit	1CC		**3VL9800-3HL00**		1	1 unit	1CC
	3VL9600-8LC00		1	1 unit	1CC		**3VL9800-8LC00**		1	1 unit	1CC
	3VL9600-8LA00		1	1 unit	1CC		**3VL9800-8LA00**		1	1 unit	1CC
	--						**--**				
	3VL9000-8LH20		1	1 unit	1CC		**--**				
	3VL9000-8LH30		1	1 unit	1CC		**3VL9000-8LH30**		1	1 unit	1CC
	3VL9715-8HA00		1	1 unit	1CC		**3VL9715-8HA00**		1	1 unit	1CC
	3VL9715-8HA00		1	1 unit	1CC		**3VL9715-8HA00**		1	1 unit	1CC
	--						**--**				
	3VL9600-8SA40		1	1 unit	1CC		**3VL9800-8SA40**		1	1 unit	1CC
	3VL9000-8AP01		1	1 unit	1CC		**3VL9000-8AP01**		1	1 unit	1CC

© Siemens 2019

	Version	SD	For VL1600 (3VL8) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
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 a diameter of 5 – 8 mm can be used. Removable (padlocks not included)		**3VL9800-3HL00**		1	1 unit	1CC
 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 frame size. Circuit breakers, fixed-mounted[1]		**3VL9800-8LC00**		1	1 unit	1CC
 NSE0_00734 3VL9.00-8LA00	**Interlocking modules for Bowden cable interlocking[2]** For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker		**3VL9800-8LA00**		1	1 unit	1CC
	Bowden cables for Bowden cable interlocking[2]						
	Cable length 0.5 m		--				
	Cable length 1.0 m		--				
	Cable length 1.5 m		**3VL9000-8LH30**		1	1 unit	1CC
 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
	For motorized operating mechanisms						
	Lock types						
	Ronis		**3VL9715-8HA00**		1	1 unit	1CC
	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
 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

1) Mounting plate not included in scope of supply.

2) Two interlocking modules and one Bowden cable are required. Cannot be used in conjunction with motorized operating mechanism and withdrawable version!

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

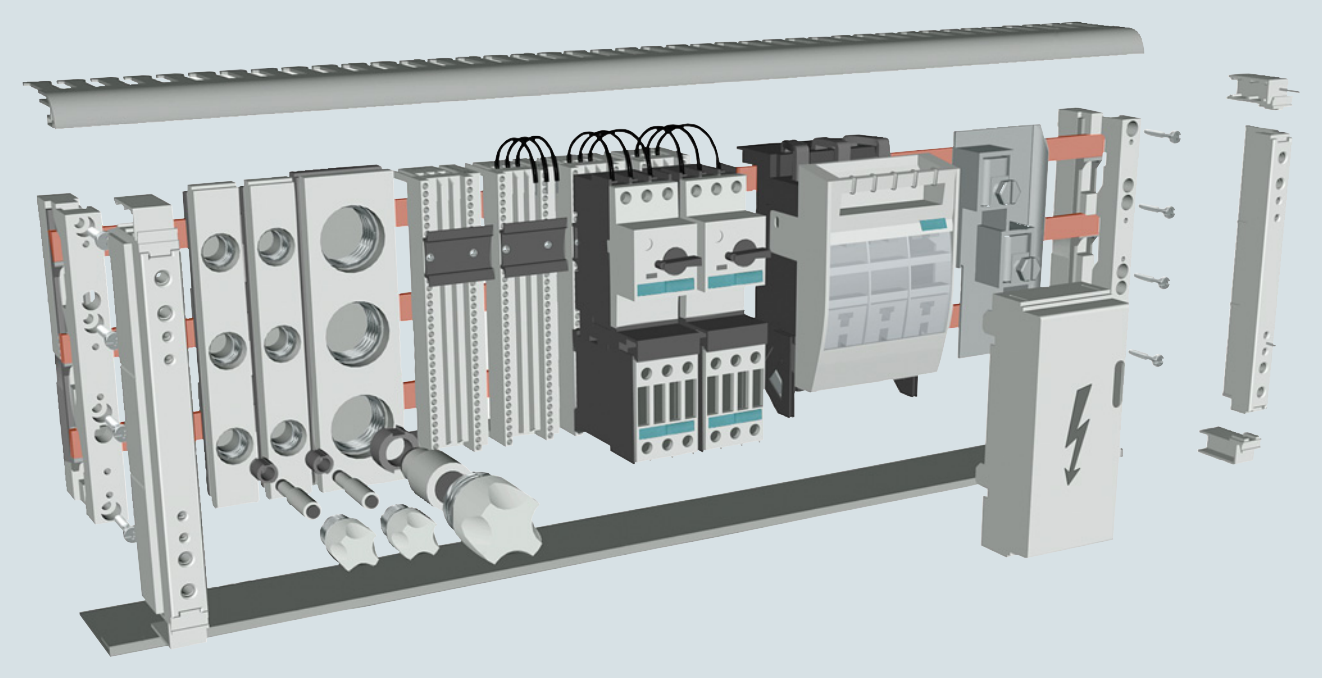
© Siemens 2019

Transfer control devices

3KC ATC6300 and 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 "Transfer Switching Equipment and Load Transfer Switches".

Busbar systems



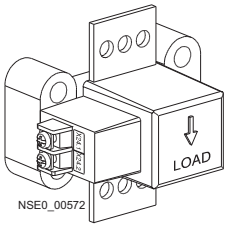
Busbar adapter systems with 40 mm or 60 mm busbar center-to-center spacing with components for busbar runs, adapters and switching device holders for individual equipment possibilities, devices with an integrated adapter, as well as accessories and flat copper profiles. Observe the short-circuit strength of the busbar system. Short-circuit strength greater than 50 kA on request.

For more information, see chapter "Busbar Systems".

© Siemens 2019

Further accessories

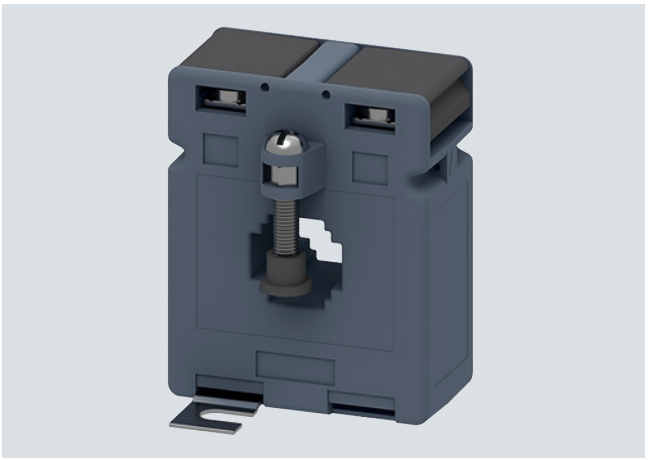
Current transformers (-T6) for N conductor/grounded neutral point of the transformer for ground-fault protection in 4-wire three-phase systems [1)]



Type	Rated current I_n A	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
VL160/3VL2	63, 80		**3VL9280-8TC00**		1	1 unit	1CC
	100		**3VL9210-8TC00**		1	1 unit	1CC
	160		**3VL9216-8TC00**		1	1 unit	1CC
VL250/3VL3	200		**3VL9320-8TC00**		1	1 unit	1CC
	250		**3VL9325-8TC00**		1	1 unit	1CC
VL400/3VL4	315		**3VL9440-8TC00**		1	1 unit	1CC
	400		**3VL9440-8TC00**		1	1 unit	1CC
VL630/3VL5	630		**3VL9563-8TC00**		1	1 unit	1CC
VL800/3VL6	800		**3VL9680-8TC00**		1	1 unit	1CC
VL1250/3VL7	1000		**3VL9712-8TC00**		1	1 unit	1CC
	1250		**3VL9712-8TC00**		1	1 unit	1CC
VL1600/3VL8	1600		**3VL9816-8TC00**		1	1 unit	1CC

[1)] Please note the rated current of the circuit breaker.

Current transformers for measuring purposes



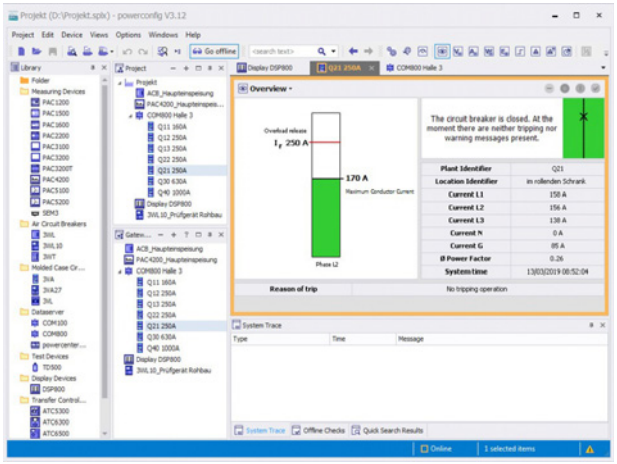
4NC53 current transformer

See also chapter "Measuring Devices and Power Monitoring" under Accessories.

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

© Siemens 2019

Version	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	d					
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 Module for connecting the 3VL molded case circuit breaker to the PROFIBUS DP, including switching function and Zone Selective Interlocking functionality, connecting cable to ETU included in delivery of the ETU, length 1.5 m.		**3VL9000-8AU00**		1	1 unit	1CC
COM21 Release 2 (MODBUS RTU module for 3VL molded case circuit breaker) for ETUs with communication function and LCD ETUs Module for connecting the 3VL molded case circuit breaker to the MODBUS RTU, including switching function and Zone Selective Interlocking functionality, connecting cable to ETU included in delivery of the ETU, length 1.5 m.		**3VL9000-8AV00**		1	1 unit	1CC
Connecting cable ETU - COM20/COM21 For VL160 ... VL250, length 3 m For VL630 ... VL1600, length 3 m For VL400, length 3 m		**3VL9000-8AQ81** **3VL9000-8AQ71** **3VL9000-8AQ61**		1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
Addressing plugs **For assigning the module addresses without using a PC/PG** On COM20/COM21 through the system interface	►	**3UF7910-0AA00-0**		1	1 unit	42J
powerconfig commissioning and service 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:

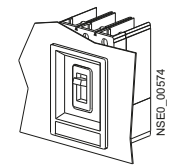
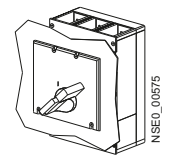
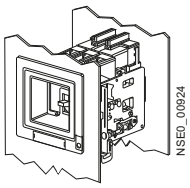
- For molded case circuit breakers with communication function, see pages 2/224 to 2/241, 2/252 to 2/263.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

© Siemens 2019

Further accessories

3- or 4-pole

Masking frames (cover frames) for door cut-outs

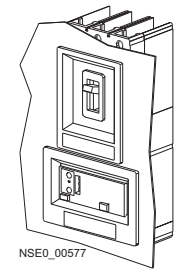
	Version	SD	For VL160X (3VL1) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
 Masking frame A	**A** **IP40** Fixed-mounted or plug-in circuit breaker		**3VL9300-8BC00**		1	1 unit	1CC
	B[1] **IP40** Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism (with or without SEO/MO stored energy mechanisms)		**3VL9300-8BG00**		1	1 unit	1CC
 Masking frame B	**C** **IP20** Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains cover frame and extended escutcheon (cannot be used together with a motorized/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
	RCD masking frame		**3VL9300-8BD00**		1	1 unit	1CC
 Masking frame C	**E**[1] **IP40** Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon.		--				

	Version	SD	For VL400 (3VL4) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					

Further accessories

3- or 4-pole

Masking frames (cover frames) for door cut-outs

 Masking frame D	**A** **IP40** Fixed-mounted or plug-in circuit breaker		**3VL9400-8BC00**		1	1 unit	1CC
	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
	C **IP20** Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains cover frame and extended escutcheon (cannot be used together with a motorized/rotary operating mechanism)		**3VL9400-8BH00**		1	1 unit	1CC
	D **IP40** Fixed-mounted circuit breaker or plug-in circuit breaker						
	RCD circuit breaker masking frame		**3VL9400-8BC00**		1	1 unit	1CC
	RCD masking frame		**3VL9400-8BD00**		1	1 unit	1CC
	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

[1] For withdrawable version IP20.

[2] For motorized operating mechanisms (without stored energy mechanism) for 3VL4-3VL6, use the Article No. 3VL9300-8BG00.

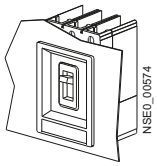
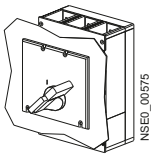
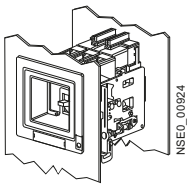
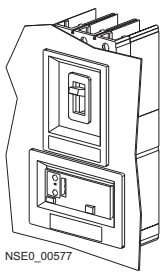
Minimum order quantity (PS) or a multiple thereof can be ordered.

© Siemens 2019

SD	For VL160 (3VL2) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL250 (3VL3) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						d					
	3VL9300-8BC00		1	1 unit	1CC		**3VL9300-8BC00**		1	1 unit	1CC
	3VL9300-8BG00		1	1 unit	1CC		**3VL9300-8BG00**		1	1 unit	1CC
	3VL9300-8BH00		1	1 unit	1CC		**3VL9300-8BH00**		1	1 unit	1CC
	3VL9300-8BC00		1	1 unit	1CC		**3VL9300-8BC00**		1	1 unit	1CC
	3VL9300-8BD00		1	1 unit	1CC		**3VL9300-8BD00**		1	1 unit	1CC
	3VL9300-8BH00		1	1 unit	1CC		**3VL9300-8BH00**		1	1 unit	1CC

SD	For VL630 (3VL5) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL800 (3VL6) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						d					
	3VL9600-8BC00		1	1 unit	1CC		**3VL9600-8BC00**		1	1 unit	1CC
	3VL9600-8BG00		1	1 unit	1CC		**3VL9600-8BG00**		1	1 unit	1CC
	3VL9600-8BH00		1	1 unit	1CC		**3VL9600-8BH00**		1	1 unit	1CC
	--						**--**				
	--						**--**				
	--						**--**				

© Siemens 2019

	Version	SD	For VL1250 (3VL7) Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
Further accessories							
	3- or 4-pole						
	Masking frames (cover frames) for door cut-outs						
 Masking frame A	**A** **IP40** Fixed-mounted or plug-in circuit breaker		**3VL9800-8BC00**		1	1 unit	1CC
 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
 Masking frame C	**C** **IP20** Withdrawable circuit breaker with toggle lever actuation. Assembly kit contains cover frame and extended escutcheon (cannot be used together with a motorized/rotary operating mechanism)		**3VL9800-8BH00**		1	1 unit	1CC
 Masking frame D	**D** **IP40** Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame RCD masking frame		-- --				
	E[1] **IP40** Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon.		--				

[1] For withdrawable version IP20.

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

© Siemens 2019

SD	For VL1600 (3VL8)		PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.	Price per PU			
	3VL9800-8BC00		1	1 unit	1CC
	3VL9800-8BG00		1	1 unit	1CC
	3VL9800-8BH00		1	1 unit	1CC
	--				
	--				
	--				

© Siemens 2019

2

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", "3WL11-13 Air Circuit Breakers/Non-Automatic Air Circuit Breakers up to 6300 A (AC), IEC", "Accessories and spare parts".

Note

You will find the 3VL molded case circuit breakers up to 1600 A according to UL 489 in Catalog LV 18.

© Siemens 2019

1. General standards

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

1.1 For customers with a seat or registered office in Germany

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

- for installation, the "Standard Terms and Conditions for Installation –Germany" and
- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services – for Customers in Germany"[1)] and
- for standalone software products and software products that are part of another product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or Registered Office in Germany"[1)] and
- for other supplies and services, the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"[1)].
  In the event that such other supplies and services include open-source software, the conditions of which override the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"[1)], the product will be supplied with a notice detailing the special conditions that apply for the relevant open-source software. This applies accordingly in the case of a reference to other third-party software components.

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

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

- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services"[1)] (only available in English) and
- for services, the "International Terms & Conditions for Services"[1)] supplemented by the "Software Licensing Conditions"[1)] and
- for the supply of other hardware and software the "International Terms & Conditions for Products"[1)] supplemented by the "Software Licensing Conditions"[1)].

1.3 For customers with framework agreements

To the extent that our products and services are covered by an existing framework agreement, the conditions there apply instead of this CSD.

2. Prices

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

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

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

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

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

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

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

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

3. Additional terms and conditions

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

Illustrations are not binding.

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

[1)] You can download the text of the Siemens AG terms and conditions of trade at www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

© Siemens 2019

4. Export regulations

We shall not be obligated to fulfill this agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions.

Exporting may be subject to authorization. In delivery information, we label authorization obligations according to German, European and US export lists.

Our products are controlled by the U.S. authorities (goods labeled with "ECCN" not equal to "N") and may only be supplied to the stated country of the end user for sole use by the end user. Without U.S. government approval or other approval under U.S. law, the products may not be sold, transferred or otherwise forwarded to other countries or to other persons other than the specified end user, either in their original form or after further processing into other goods. Goods labeled with an "AL" not equal to "N" are subject European/national export authorization requirements.

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

Unmarked items or items marked "AL:N" / "ECCN:N" or "AL:9X9999" / "ECCN: 9X9999" may require authorization based on their intended use or ultimate destination.

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

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

The products listed in this catalog may be subject to European/German and/or US export regulations. Therefore, any export requiring a license is subject to approval by the competent authorities.

Errors excepted and subject to change without prior notice.

© Siemens 2019

Catalogs
Smart Infrastructure and Digital Industries

Further information can be obtained from our branch offices listed at www.siemens.com/lowvoltage/contact

Interactive Catalog	*Catalog*
Products for Automation and Drives	**CA 01**

Building Control	
GAMMA Building Control	ET G1

Drive Systems	
SINAMICS G130 Drive Converter Chassis Units SINAMICS G150 Drive Converter Cabinet Units	D 11
Digital: SINAMICS PERFECT HARMONY GH180 Medium-Voltage Air-Cooled Drives (Germany Edition)	*D 15.1*
SINAMICS G180 Converters – Compact Units, Cabinet Systems, Cabinet Units Air-Cooled and Liquid-Cooled	D 18.1
SINAMICS S120 Chassis Format Converter Units SINAMICS S120 Cabinet Modules SINAMICS S150 Converter Cabinet Units	D 21.3
SINAMICS S120 and SIMOTICS	D 21.4
SINAMICS DCM DC Converter, Control Module	D 23.1
SINAMICS Inverters for Single-Axis Drives · Built-In Units	D 31.1
SINAMICS Inverters for Single-Axis Drives · Distributed Inverters	D 31.2
Digital: SINAMICS Converters for Single-Axis Drives · SINAMICS G120X	*D 31.5*
Digital: SINAMICS S210 Servo Drive System	*D 32*
Digital: SINAMICS V90 Basic Servo Drive System	*D 33*
Digital: SINAMICS G120P and SINAMICS G120P Cabinet pump, fan, compressor converters	*D 35*
LOHER VARIO High Voltage Motors Flameproof, Type Series 1PS4, 1PS5, 1MV4 and 1MV5 Frame Size 355 to 1000, Power Range 80 to 7100 kW	D 83.2
Digital: Three-Phase Induction Motors SIMOTICS HV, SIMOTICS TN	*D 84.1*
Digital: Three-Phase Induction Motors SIMOTICS HV	*D 84.3*
High Voltage Three-phase Induction Motors SIMOTICS HV Series A-compact PLUS	D 84.9
Digital: Modular Industrial Generators SIGENTICS M	*D 85.1*
Synchronous Motors with Permanent-Magnet Technology, HT-direct	D 86.2
DC Motors	DA 12
SIMOVERT PM Modular Converter Systems	DA 45
MICROMASTER 420/430/440 Inverters	DA 51.2
MICROMASTER 411/COMBIMASTER 411	DA 51.3
Low-Voltage Three-Phase-Motors	
SIMOTOCS S-1FG1 Servo geared motors	D 41
SIMOTICS Low-Voltage Motors	D 81.1
SIMOTICS FD Low-Voltage Motors	D 81.8
LOHER Low-Voltage Motors	D 83.1
Digital: MOTOX Geared Motors	*D 87.1*
SIMOGEAR Geared Motors	MD 50.1
SIMOGEAR Electric-monorail geared motors Light-load and heavy-load applications	MD 50.8
SIMOGEAR Gearboxes with adapter	MD 50.11
Mechanical Driving Machines	
FLENDER Standard Couplings	MD 10.1
FLENDER High Performance Couplings	MD 10.2
FLENDER Backlash-free Couplings	MD 10.3
FLENDER SIP Standard industrial planetary gear units	MD 31.1

Motion Control	
SINUMERIK 840 Equipment for Machine Tools	NC 62
SINUMERIK 808 Equipment for Machine Tools	NC 81.1
SINUMERIK 828 Equipment for Machine Tools	NC 82
SIMOTION Equipment for Production Machines	PM 21
Digital: Drive and Control Components for Cranes	*CR 1*

Process Instrumentation and Analytics	*Catalog*
Digital: Field Instruments for Process Automation	*FI 01*
Digital: Display Recorders SIREC D	*MP 20*
Digital: SIPART Controllers and Software	*MP 31*
Products for Weighing Technology	WT 10
Digital: Process Analytical Instruments	*AP 01*
Digital: Process Analytics, Components for Continuous Emission Monitoring	*AP 11*

Low-Voltage Power Distribution and Electrical Installation Technology	
SENTRON · SIVACON · ALPHA Protection, Switching, Measuring and Monitoring Devices, Switchboards and Distribution Systems	LV 10
Electrical Components for the Railway Industry	LV 12
Power Monitoring Made Simple	LV 14
Components for Industrial Control Panels according to UL Standards	LV 16
Digital: Air circuit breakers and molded case circuit breakers with UL certification	*LV 18*
3WT Air Circuit Breakers up to 4000 A	LV 35
3VT Molded Case Circuit Breakers up to 1600 A	LV 36
Digital: SIVACON System Cubicles, System Lighting and System Air-Conditioning	*LV 50*
Digital: ALPHA Distribution Systems	*LV 51*
ALPHA FIX Terminal Blocks	LV 52
SIVACON S4 Power Distribution Boards	LV 56
SIVACON 8PS Busbar Trunking Systems	LV 70
Digital: DELTA Switches and Socket Outlets	*ET D1*
Vacuum Switching Technology and Components for Medium Voltage	HG 11.01

Power Supply	
SITOP Power supply	KT 10.1

Safety Integrated	
Safety Technology for Factory Automation	SI 10

SIMATIC HMI / PC-based Automation	
Human Machine Interface Systems/ PC-based Automation	ST 80/ ST PC

SIMATIC Ident	
Industrial Identification Systems	ID 10

SIMATIC Industrial Automation Systems	
Products for Totally Integrated Automation	ST 70
SIMATIC PCS 7 Process Control System System components	ST PCS 7
SIMATIC PCS 7 Process Control System Technology components	ST PCS 7 T
Add-ons for the SIMATIC PCS 7 Process Control System	ST PCS 7 AO
SIMATIC S7-400 advanced controller	ST 400

SIMATIC NET	
Industrial Communication	IK PI

SIRIUS Industrial Controls	
Digital: SIRIUS Industrial Controls	*IC 10*

Digital: These catalogs are only available as a PDF.

Siemens Industry Online Support

Digital versions of the catalogs are available on the Internet at:
www.siemens.com/lowvoltage/catalogs

© Siemens 2019

Get more information

www.siemens.com/lowvoltage

Siemens AG
Energy Management
Low Voltage & Products
Postfach 10 09 53
93009 Regensburg
Germany

© Siemens AG 2019
Subject to change without prior notice
PDF (Extract from E86060-K8280-A101-A9-7600)
KG 0619 1802 En
Produced in Germany

The information provided in this catalog contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Availability and technical specifications are subject to change without notice.

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.

Security information

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

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

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

For additional information on industrial security measures that may be implemented, please visit **http://www.siemens.com/industrialsecurity**.

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

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under **http://www.siemens.com/industrialsecurity**.