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Low-Voltage Power Distribution and Electrical Installation Technology

Molded Case Circuit Breakers

Catalog
Extract
LV 10

Edition
04/2018

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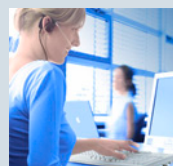


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Low-Voltage Power Distribution and Electrical Installation Technology

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

SENTRON · SIVACON · ALPHA



Catalog LV 10 · 04/2018

Supersedes:
Catalog LV 10 · 10/2017

Refer to the Industry Mall for current updates of
this catalog:
www.siemens.com/industrymall

The products in this catalog can also be found in the
Interactive Catalog CA 01.
Article No.: E86060-D4001-A510-D8-7500

Please contact your local Siemens branch.

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

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Switchboards and Distribution Systems

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 an € 20 supplement to cover our order processing and invoicing costs.

Explanations of Selection and Ordering Data

Standard delivery time (SD)

SD in days (d)	The standard delivery times (SD) are valid ex works from Siemens AG (products ready for dispatch). Shipping times depend on the destination and the method of shipping. The standard shipping time for Germany is one day.	The specified standard delivery times are correct at the time of going to print and are subject to constant optimization. Up-to-date information can be found at www.siemens.com/industrymall .
▶ Preferred type	Preferred types are device types that can be delivered immediately ex works, i.e. they are dispatched within 24 hours. If ordered in normal quantities, the products are usually delivered within the specified delivery times, calculated from the date we receive your order. In exceptional cases, delivery times may vary from those specified.	
X On request	In such cases, the delivery time can be queried.	

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: 1BK
Ordering quantity 1 unit or a multiple thereof

8US1923-5CA02
PG: 1CU
Ordering quantity 10 units or a multiple thereof

8WH9000-1GA00
PG: 1BT
Ordering quantity 50 units or a multiple thereof

SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
d					
▶	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.

Molded Case Circuit Breakers

**3VA molded case circuit breakers**

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

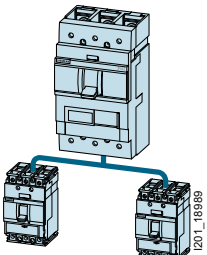
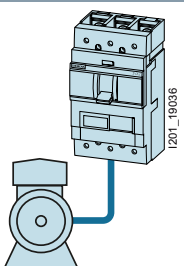
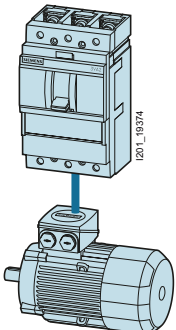

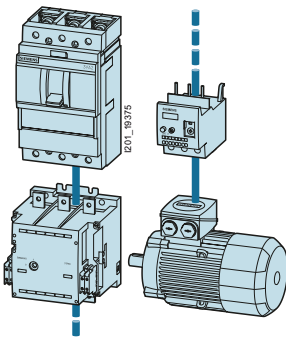

- Entry type:
 - Application example
 - Certificate
 - Characteristic
 - Download
 - FAQ
 - Manual
 - Product note
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 - Technical data
 - Siemens LV 10 · 04/2018

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

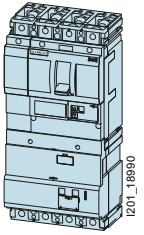
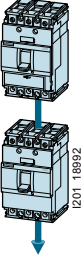
Overview

Application	Page	3VA1	3VA2	Description	Standards
Line protection					
	2/20 ... 2/41 2/46 ... 2/75	✓	✓	<p>The trip units for line protection are designed to provide overload and short-circuit protection for:</p> <ul style="list-style-type: none"> • Cables • Leads • Non-motor loads 	IEC / EN 60947-1, IEC / EN 60947-2
Generator protection					
	2/52 ... 2/59 2/68 ... 2/75	--	✓	<p>The setting values of the trip units are matched to protecting generators.</p>	IEC / EN 60947-1, IEC / EN 60947-2
Motor protection					
	2/78 ... 2/79	--	✓	<p>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.</p> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;">Are you IE3/IE4 ready?</div>  </div>	IEC / EN 60947-1, IEC / EN 60947-2, IEC / EN 60947-4-1 IE3 ready
Protection for starter combinations (starter protection)					
	2/42 ... 2/43 2/78 ... 2/79	✓	✓	<p>Starter combinations consist of: Molded case circuit breaker + contactor + overload relay.</p> <p>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.</p> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;">Are you IE3/IE4 ready?</div>  </div>	IEC / EN 60947-1, IEC / EN 60947-2, IEC / EN 60947-4-1 IE3 ready

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

Application	Page	3VA1	3VA2	Description	Standards
Residual current protection 	2/120 ... 2/122	✓	✓	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 	2/44	✓	--	Switch disconnectors are deployed: <ul style="list-style-type: none"> • 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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

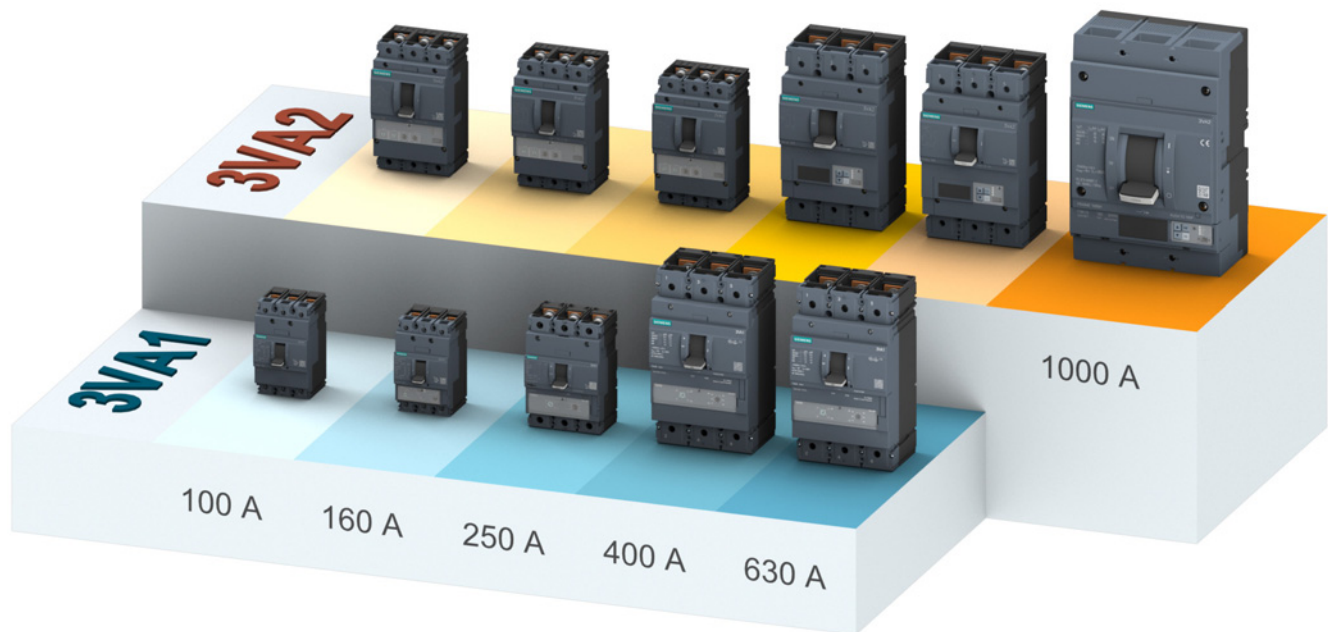
Sizes

The integrated 3VA portfolio consists of two different ranges of molded case circuit breakers in eleven frame sizes. The 1000 A frame size of the 3VA2 molded case circuit breaker and the 400 A and 630 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 circuit breaker from all the 3VA ranges 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 630 A). 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 1000 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. 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 from 100 A ... 1000 A (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, 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 residual current devices (RCD310 (up to 160 A) and RCD510) that can be side-mounted.

Thermal-magnetic trip unit

A thermal-magnetic principle trip unit is the basic trip unit for providing overload and short-circuit protection. This has been developed for implementing economical, cost-efficient installations up to 630 A. It is suitable for use in three-phase networks, AC networks, 400 Hz applications, and with DC currents.

3VA2 molded case circuit breakers

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

The most important features of the 3VA2 series are:

- Compact dimensions
- 3 and 4-pole versions
- 6 sizes (1000 A **NEW**)
- 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
- Retrofittable communication for ETU 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
- Electronic Trip Units, versions with and without integrated metering function and optional communication interface

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

Energy management and communication

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

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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

3VA1 up to 630 A

2



Type	3VA10	3VA11		
Number of poles	3, 4	1	2	3, 4

3VA1 molded case circuit breakers for line protection, standard applications

Electrical characteristics according to IEC 60947-2

Size	100 A	160 A	160 A	160 A
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 * On request

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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

3VA1 up to 630 A



3VA12

3VA13 **NEW**

3VA14 **NEW**

3, 4

3, 4

3, 4

3VA1 molded case circuit breakers for line protection, standard applications

250 A

400 A

630 A

160 ... 250

320 ... 400

500 ... 630

690

690

690

800

800

800

8

8

8

✓

✓

✓

0 ... 400

0 ... 400

0 ... 400

S			M			H		
55	85	100	55	85	100	55	85	100
36	55	70	36	55	70	36	55	70
25	36	36	25	36	36	25	36	36
10	15	15	10	15	15	10	15	15
7	10	10	7	10	10	7	10	10
--	--	--	--	--	--	--	--	--
55	85	100	55	85	100	55	85	100
55	85	100	55	85	100	55	85	100
25	36	55	25	36	55	25	36	55
55	85	100	55	85	100	55	85	100
36	55	70	36	55	70	36	55	70
25	36	36	25	36	36	25	36	36
10	10	10	10	10	10	10	10	10
5	5	5	5	5	5	5	5	5
--	--	--	--	--	--	--	--	--
55	85	100	55	85	100	55	85	100
55	85	100	55	85	100	55	85	100
25	36	55	25	36	55	25	36	55

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

3VA2 up to 630 A

2



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	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	85	110	150	200
380 - 415 V AC / 50/60 Hz	kA 55	85	110	150	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	55	85	110	150
500 V AC / 50/60 Hz	kA 36	55	85	100	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	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	85	110	150	200
380 - 415 V AC / 50/60 Hz	kA 55	85	110	150	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	55	85	110	150
500 V AC / 50/60 Hz	kA 36	55	85	100	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	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 * On request

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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

3VA2 up to 630 A

3VA2 over 630 A **NEW**



3VA23

3VA24

3VA25

3, 4

3, 4

3, 4

3VA2 for line protection, selectivity applications

400 A

630 A

1000 A

250 ... 400

400 ... 630

630 ... 1000

690

690

690

800

800

800

8

8

8

✓

✓

✓

50 ... 60

50 ... 60

50 ... 60

(M) (H) (C) (L)

(M) (H) (C) (L)

(M) (H) (C)

85 110 150 *

85 110 150 *

85 110 200

55 85 110 *

55 85 110 *

55 85 110

55 85 110 *

55 85 110 *

* * *

36 55 85 *

36 55 85 *

* * *

5 5 5 *

6 6 6 *

25 35 35

-- -- -- --

-- -- -- --

-- -- --

-- -- -- --

-- -- -- --

-- -- --

-- -- -- --

-- -- -- --

-- -- --

85 110 150 *

85 110 150 *

85 110 150

55 85 110 *

55 85 110 *

55 85 110

55 85 110 *

55 85 110 *

* * *

36 55 65 *

36 55 85¹⁾ *

* * *

5 5 5 *

6 6 6 *

19 19 19

-- -- -- --

-- -- -- --

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Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

3VA1 up to 630 A

2



Type		3VA10	3VA11	3VA11	3VA11
------	--	-------	-------	-------	-------

3VA1 molded case circuit breakers for line protection, standard applications

Service life (make-break operations)

			20000 ¹⁾	20000 ¹⁾	20000 ¹⁾	20000 ¹⁾
Mechanical						
Electrical	380 ... 415 V		8000	8000	8000	8000
Trip units	FTFM	TM210	✓	✓	✓	✓
	ATFM	TM220	--	--	--	✓
	ATAM	TM240	--	--	--	✓
	LI	ETU320	--	--	--	--
	LIG	ETU330	--	--	--	--
	ELISA LI	ETU340	--	--	--	--
	LSI	ETU350	--	--	--	--
	LSI	ETU550/ETU850	--	--	--	--
	LSIG	ETU560/ETU860	--	--	--	--

3VA1 molded case circuit breakers for 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)

			20000 ¹⁾	20000 ¹⁾	20000 ¹⁾	20000 ¹⁾
Mechanical						
Electrical	380 ... 415 V		8000	8000	8000	8000
Trip units	AM	TM120M	--	--	--	✓
	I	ETU310M	--	--	--	--
	LSI	ETU350M	--	--	--	--
	LSIG	ETU860M	--	--	--	--

Switch disconnectors

Electrical characteristics according to IEC 60947-3

Number of poles		--	--	--	3, 4
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 short-circuit making capacity I_{cn} with upstream circuit breaker	kA	--	--	--	70 kA at 415 V
Permissible rated short-time withstand current I_{cw} 1 s	kA	--	--	--	2

Dimensions

			76.2 (3p)/ 101.6 (4p)	25.4	50.8	76.2 (3p)/ 101.6 (4p)
	A	mm				
	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

Standards and specifications		IEC 60947-2, -3, -4	IEC 60947-2, -3, -4	IEC 60947-2, -3, -4	IEC 60947-2, -3, -4
Utilization category according to IEC 60947-2		A	A	A	A
Power and infeed direction		Top and bottom			
Isolating features according to IEC 60947		✓	✓	✓	✓

✓ Available

-- Not available

¹⁾ Operating cycles NO-NC

3VA1 up to 630 A



3VA12

3VA13 **NEW**3VA14 **NEW**

3VA1 molded case circuit breakers for line protection, standard applications

20000 ¹⁾	15000	15000
8000	6000	4000
--	--	--
--	--	--
✓	✓	✓
--	--	--
--	--	--
--	--	--
--	--	--
--	--	--

3VA1 molded case circuit breakers for starter protection (IEC 60947-4-1 standards and specifications acc. to AC-1)

160, 200	250	400 ... 500
20000 ¹⁾	15000	15000
8000	6000	4000
✓	✓	✓
--	--	--
--	--	--
--	--	--

Switch disconnectors

3, 4	3, 4	--
250	400	--
690	690	--
500 (3p)/ 600 (4p)	500 (3p)/ 600 (4p)	--
70 kA at 415 V	On req.	--
3	6	--

Dimensions

105 (3p)/ 140 (4p)	138 (3p)/184 (4p)	138 (3p)/184 (4p)
158	248	248
70	110	110
88	137	137
--	--	--
--	--	--
1.8	4.3	4.3
2.3	4.8	4.8

General information

IEC 60947-2, -3, -4	IEC 60947-2, -3, -4	IEC 60947-2, -3, -4
A	A	A/B ¹⁾
	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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

3VA2 up to 630 A

2



Type

3VA20

3VA21

3VA22

3VA2 molded case circuit breakers for line protection, standard applications

Service life (make-break operations)

		3VA20	3VA21	3VA22
Mechanical		20000	20000	20000
Electrical	380 ... 415 V	12000	12000	10000
Trip units	FTFM	TM210	--	--
	ATFM	TM220	--	--
	ATAM	TM240	--	--
	LI	ETU320	✓	✓
	LIG	ETU330	✓	✓
	ELISA LI	ETU340	✓	✓
	LSI	ETU350	✓	✓
	LSI	ETU550/ETU850	✓	✓
LSIG	ETU560/ETU860	✓	✓	

3VA2 molded case circuit breakers for motor/starter protection (IEC 60947-4-1 standards and specifications acc. to AC-1)

		3VA20	3VA21	3VA22
Rated operational current I_n at 50 °C ambient temperature	A	--	25 ... 100	160 ... 200

Service life (make-break operations)

		3VA20	3VA21	3VA22
Mechanical		--	20000	20000
Electrical	380 ... 415 V	--	12000	10000
Trip units	AM	TM120M	--	--
	I	ETU310M	--	✓
	LSI	ETU350M	--	✓
	LSIG	ETU860M	--	✓

Dimensions

		3VA20	3VA21	3VA22
	A	mm	105 (3p)/ 140 (4p)	105 (3p)/140 (4p)
	B	mm	181	181
	C	mm	86	86
	D	mm	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
	4-pole nut keeper kit	kg	2.94	2.94

General information

		3VA20	3VA21	3VA22
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

3VA2 up to 630 A

3VA2 over 630 A **NEW**

3VA23

3VA24

3VA25

3VA2 molded case circuit breakers for line protection, standard applications

15000	15000	10000
6000	4000	5000
--	--	--
--	--	--
--	--	--
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓

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
15000	15000	10000
6000	4000	4000
--	--	--
✓	✓	--
✓	✓	✓
✓	✓	✓

Dimensions

138 (3p)/184 (4p)	138 (3p)/184 (4p)	210 (3p)/280 (4p)
248	248	320
110	110	120
137	137	253
--	--	--
--	--	--
4.3	4.3	11.35
4.8	4.8	15.42

General information

IEC 60947-2, -3, -4	IEC 60947-2, -3, -4	IEC 60947-2
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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

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 630 A										3VA above 630 A	
	3VA1					3VA2					3VA2	
	100	160	250	400	630	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)												
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												

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.

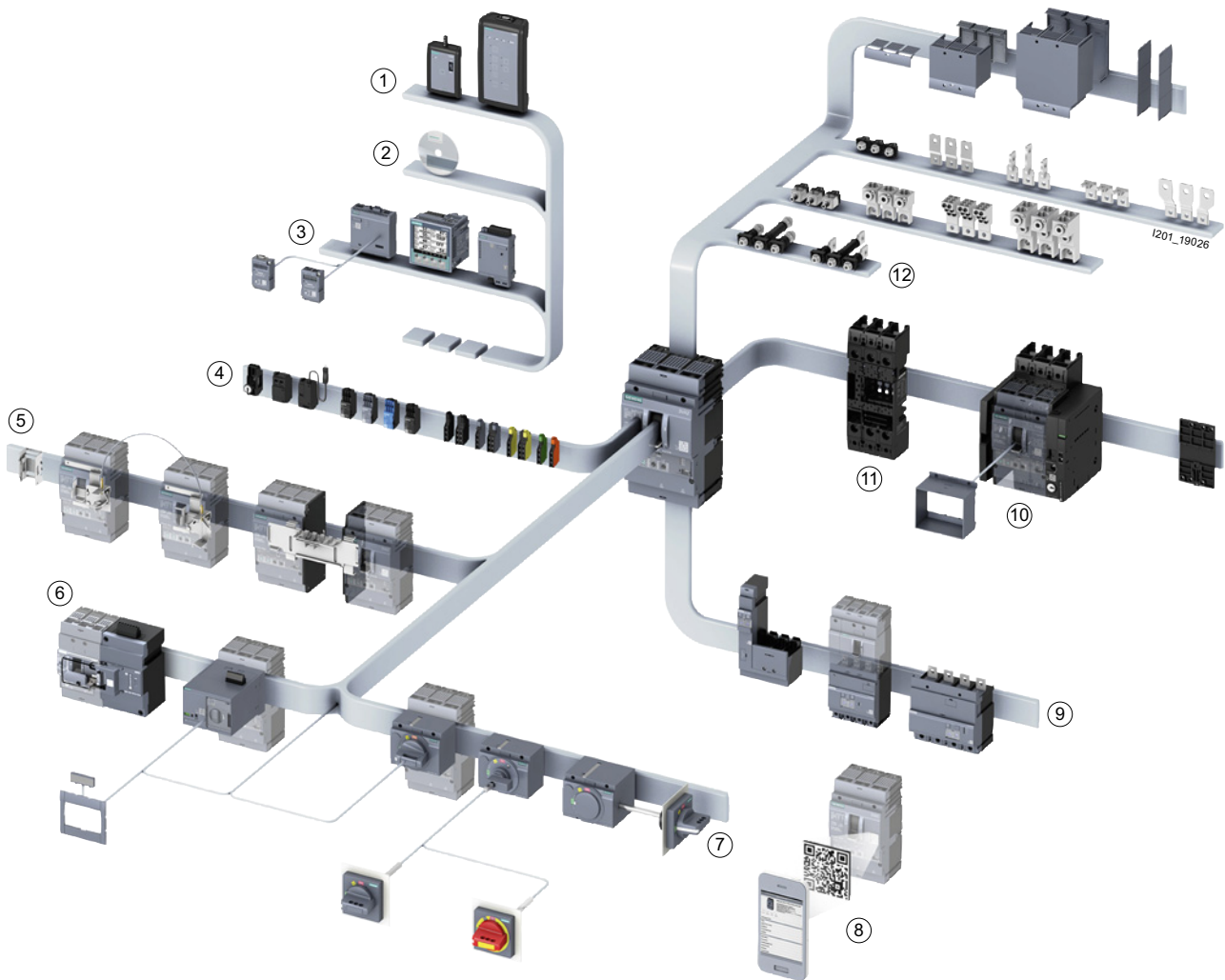
Connection technology	Illustration	3VA1					3VA2					1000	
		100	160	250	400	630	100	160	250	400	630		
Nut keeper kit		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Box terminal		✓	✓	--	--	--	✓	✓	--	--	--	--	--

✓ 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).



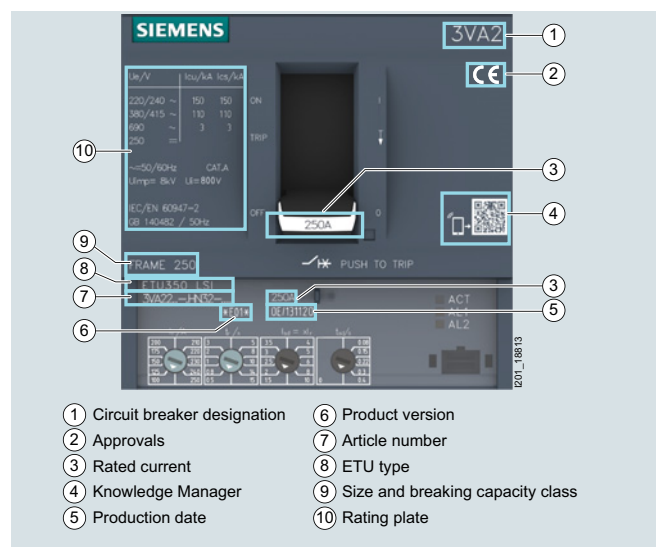
- ① Test devices (page 2/129)
- ② powerconfig commissioning and service software (pages 2/126, chapter "Measuring Devices and Power Monitoring" and chapter "Software")
- ③ Communication (pages 2/124 to 2/129)
- ④ Internal accessories (pages 2/80 to 2/88)
- ⑤ Accessories for locking, blocking and interlocking (pages 2/130 to 2/133)
- ⑥ Motor operators (page 2/96)
- ⑦ Manual operators (pages 2/89 to 2/95)
- ⑧ Knowledge Manager (page 2/15)
- ⑨ Residual current devices (pages 2/120 to 2/122)
- ⑩ Draw-out technology (pages 2/115 to 2/119)
- ⑪ Plug-in technology (pages 2/115 to 2/119)
- ⑫ Connection technology (pages 2/97 to 2/114)

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

Molded Case Circuit Breakers

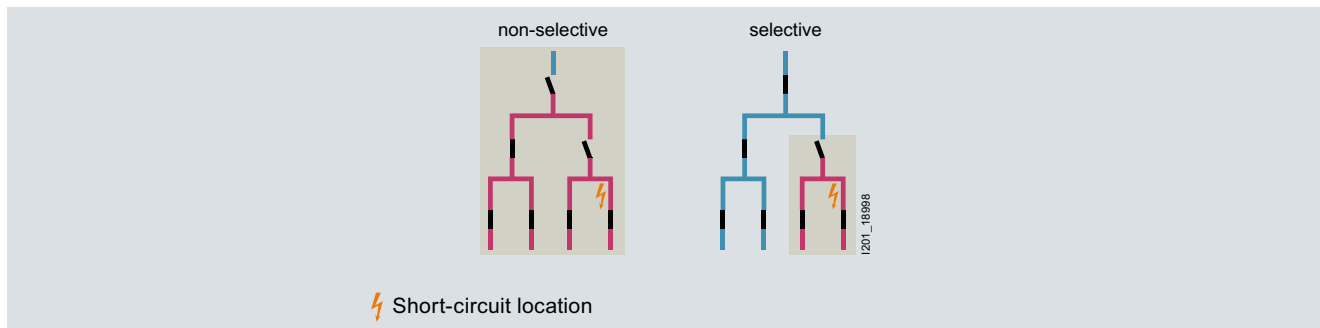
3VA Molded Case Circuit Breakers

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

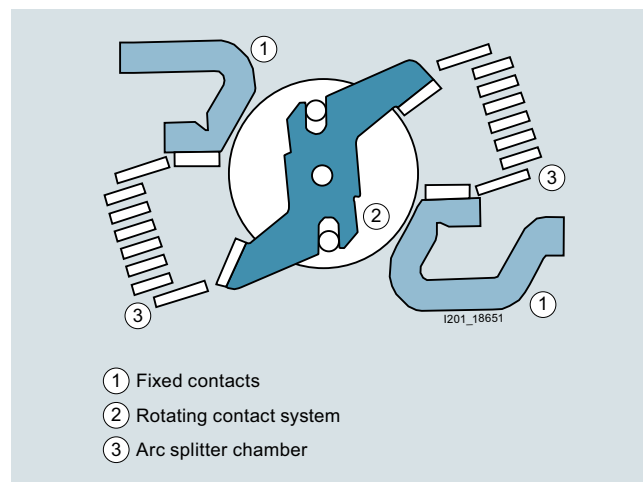
You can find information on selectivity values for the 3VA2 molded case circuit breakers on the Internet under the link for the 3VA documentation

(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

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

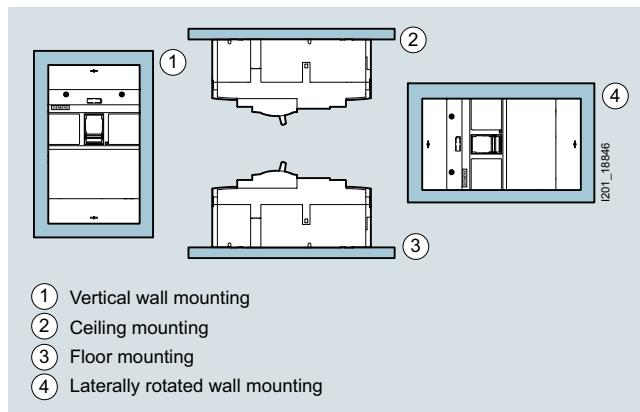
As from January 2015, the energy-efficiency class IE3 will be mandatory, with a few exceptions only, for three-phase asynchronous motors. This will have an effect on motors, low-voltage power distribution and electrical installation technology, as well as industrial controls.

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 controls with IE3/IE4 motors](#), at <https://support.industry.siemens.com/cs/ww/en/view/94770820>.

Are you
IE3/IE4 ready?



Permissible mounting positions



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



Molded Case Circuit Breakers


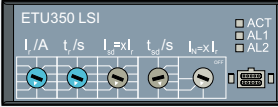


























3VA Molded Case Circuit Breakers

General data

Protection system

Description of functions

2

	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	 <p>Line protection: TM210, TM220, TM240 Starter protection: TM120M</p>	 <p>Line protection: ETU320, ETU330, ETU340, ETU350 Starter protection: ETU310M Motor protection: ETU350M</p>	 <p>Line protection: ETU550, ETU560</p>	 <p>Line protection: ETU850, ETU860 Motor protection: ETU860M</p>
Integrated functions				
Parameterizing	 <p>Setting and reading the parameters in A</p>	 <p>Setting and reading the parameters in A and s</p>	 <ul style="list-style-type: none"> Setting and reading the parameters via display and communication Fine setting of the parameters Reading the measured values 	 <ul style="list-style-type: none"> Setting and reading the parameters via display and communication Fine setting of the parameters Reading the measured values
Status display	--	 <p>Indicating the ETU status via LEDs</p>	 <p>Indicating the ETU status via LEDs</p>	 <p>Indicating the ETU status via LEDs</p>
Interface	--	 <p>Interface for test devices</p>	 <p>Interface for test devices</p>	 <p>Interface for test devices</p>
Metering function	--	--	--	Metering function integrated
Optional expansions				
--	--	--	 <p>24 V module for continuous power supply (also without primary current through the molded case circuit breaker)</p>	 <p>24 V module for continuous power supply (also without primary current through the molded case circuit breaker)</p>
--	 <p>EFB300 external function box for connecting to the ETU</p>	 <p>EFB300 external function box for connecting to the ETU</p>	 <p>EFB300 external function box for connecting to the ETU</p>	
--	--	 <p>COM060 communication module</p>	 <p>COM060 communication module</p>	
--	--	 <p>COM800/COM100 breaker data server Interface to</p> <ul style="list-style-type: none"> PROFIBUS PROFINET Modbus RTU Ethernet (Modbus TCP) 	 <p>COM800/COM100 breaker data server Interface to</p> <ul style="list-style-type: none"> PROFIBUS PROFINET Modbus RTU Ethernet (Modbus TCP) 	
--	--	 <p>DSP800 external display for installing in the cubicle door</p>	 <p>DSP800 external display for installing in the cubicle door</p>	
--	 <p>TD300/TD500 test device</p>	 <p>TD300/TD500 test device</p>	 <p>TD300/TD500 test device</p>	

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 without, 50% or 100% N protection
 50% N protection from $I_n \geq 100$ A and only in size 160 A

Protection functions of the 3VA2 with Electronic Trip Unit

	ETU310M I	ETU320 LI	ETU330 LIG	ETU340 ELISA®	ETU350 LSI	ETU350M LSI	ETU550 LSI	ETU560 LSIG	ETU850 LSI	ETU860 LSIG	ETU860M LSIG
Protection											
Starter protection	✓	--	--	--	--	--	--	--	--	--	--
Motor protection	--	--	--	--	--	✓	--	--	--	--	✓
Line protection	--	✓	✓	✓	✓	--	✓	✓	✓	✓	--
Generator protection	--	✓	✓	--	✓	--	✓	✓	✓	✓	--
Version available with											
3-pole without external neutral conductor transformer	✓	✓	✓	✓	✓	✓	--	--	--	--	✓
3-pole with external neutral conductor transformer	--	--	--	--	--	--	✓	✓	✓	✓	--
4-pole with protected neutral conductor 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_r	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
t_r at $6 \times I_r$	--	✓	✓	--	✓	--	✓	✓	✓	✓	--
t_c	--	--	--	--	--	✓	--	--	--	--	✓
t_p	--	--	--	--	--	--	--	--	--	--	✓
Thermal image	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thermal image can be switched on/off	--	--	--	--	--	--	✓	✓	✓	✓	--
I_{sd}	--	--	--	--	✓	✓	✓	✓	✓	✓	✓
t_{sd} at $8 \times I_r$	--	--	--	--	✓	✓	✓	✓	✓	✓	✓
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 $2 \times I_g$	--	--	✓	--	--	--	--	✓	--	✓	✓
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

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

Line protection

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_t

SD

I_{cu} up to 25 kA at 240 V, low breaking capacity N
See "Overview", p. 2/6 and 2/7

(N)

Article No. www.siemens.com/product?ArticleNo.

Basic price per PU

A

A

A

d

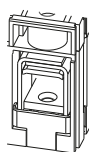
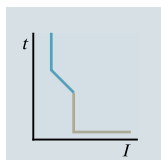
1-pole, fixed-mounted, 3VA11, up to 160 A Thermal-magnetic trip unit



i201_19027

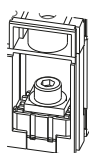
Line protection, 1-pole, TM210 FTFM

With fixed overload protection I_r and fixed short-circuit protection I_t



Connection with box terminal

3VA11	Rated current I_n	Overload protection I_r	Short-circuit protection I_t	Article No.
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	Rated current I_n	Overload protection I_r	Short-circuit protection I_t	Article No.
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

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

Line protection

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 See "Overview", p. 2/6 and 2/7	(S)	Basic price per PU	SD	I_{cu} up to 55 kA at 240 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	(M)	Basic price per PU
A	d	Article No. www.siemens.com/ product?Article No.			d	NEW		

Line protection, 1-pole, TM210 FTFMWith fixed overload protection I_r and fixed short-circuit protection I_s **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

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

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
See "Overview", p. 2/6 and 2/7

(N)

Article No.

www.siemens.com/product?ArticleNo.

Basic price per PU

A

A

A

d

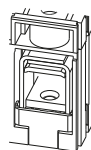
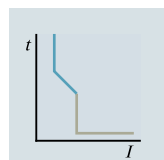
2-pole, fixed-mounted, 3VA11, up to 160 A Thermal-magnetic trip unit



TM210
I201_19027

Line protection, 2-pole, TM210 FTFM

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



Connection with box terminal

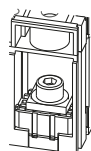
3VA11

16	16	320
20	20	320
25	25	320
32	32	320
40	40	400
50	50	500
63	63	630
80	80	800
100	100	1000
125	125	1250
160	160	1600

3VA1196-3ED26-0AA0
3VA1120-3ED26-0AA0
3VA1125-3ED26-0AA0
3VA1132-3ED26-0AA0

3VA1140-3ED26-0AA0
3VA1150-3ED26-0AA0
3VA1163-3ED26-0AA0
3VA1180-3ED26-0AA0

3VA1110-3ED26-0AA0
3VA1112-3ED26-0AA0
3VA1116-3ED26-0AA0



Connection with nut keeper kit

3VA11

16	16	320
20	20	320
25	25	320
32	32	320
40	40	400
50	50	500
63	63	630
80	80	800
100	100	1000
125	125	1250
160	160	1600

3VA1196-3ED22-0AA0
3VA1120-3ED22-0AA0
3VA1125-3ED22-0AA0
3VA1132-3ED22-0AA0

3VA1140-3ED22-0AA0
3VA1150-3ED22-0AA0
3VA1163-3ED22-0AA0
3VA1180-3ED22-0AA0

3VA1110-3ED22-0AA0
3VA1112-3ED22-0AA0
3VA1116-3ED22-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

Line protection

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 See "Overview", p. 2/6 and 2/7	(S)	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	(M)
A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU
					NEW	

Line protection, 2-pole, TM210 FTFMWith 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

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

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 16 kA at 415 V, very low breaking capacity B
See "Overview", p. 2/6 and 2/7

(B)

Article No.
www.siemens.com/product?Article No.

Basic price per PU

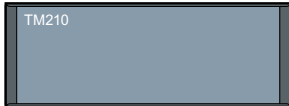
A

A

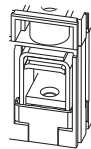
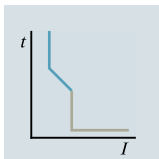
A

d

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



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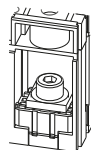


Line protection, TM210 FTFM

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

Connection with box terminal

3VA10	I_n	I_r	I_i	Article No.
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
3VA10	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	I_n	I_r	I_i	Article No.
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
3VA10	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

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

Line protection

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 See "Overview", p. 2/6 and 2/7	(N)	SD	I_{cu} up to 36 kA at 415 V, standard breaking capacity S See "Overview", p. 2/6 and 2/7	(S)
A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU

Line protection, TM210 FTFMWith fixed overload protection I_r and fixed short-circuit protection I_s **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

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

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
See "Overview", p. 2/6 and 2/7

N

Article No.
www.siemens.com/product?ArticleNo.

Basic price per PU

A

A

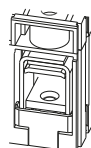
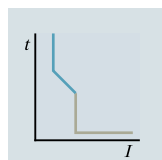
A

d

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



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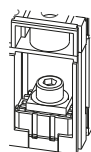


Line protection, TM210 FTFM

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

Connection with box terminal

3VA11	I_n	I_r	I_i	Article No.
16	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	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	100	1000	3VA1110-3ED36-0AA0
	125	125	1250	3VA1112-3ED36-0AA0
	160	160	1600	3VA1116-3ED36-0AA0

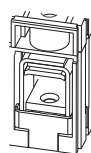
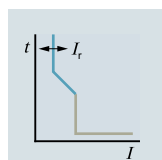


Connection with nut keeper kit

3VA11	I_n	I_r	I_i	Article No.
16	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	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	100	1000	3VA1110-3ED32-0AA0
	125	125	1250	3VA1112-3ED32-0AA0
	160	160	1600	3VA1116-3ED32-0AA0



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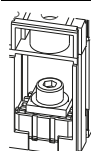


Line protection, TM220 ATFM

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

Connection with box terminal

3VA11	I_n	I_r	I_i	Article No.
16	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	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	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	I_n	I_r	I_i	Article No.
16	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	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	100	70 ... 100	1000	3VA1110-3EE32-0AA0
	125	88 ... 125	1250	3VA1112-3EE32-0AA0
	160	112 ... 160	1600	3VA1116-3EE32-0AA0

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		SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M M		SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H H	
		See "Overview", p. 2/6 and 2/7			See "Overview", p. 2/6 and 2/7			See "Overview", p. 2/6 and 2/7	
A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU

Line protection, TM210 FTFMWith fixed overload protection I_r and fixed short-circuit protection I_f **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 ATFMWith adjustable overload protection I_r and fixed short-circuit protection I_f **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

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

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
See "Overview", p. 2/6 and 2/7

N

Article No.
www.siemens.com/product?Article No.

Basic price per PU

A

A

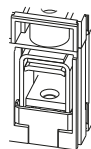
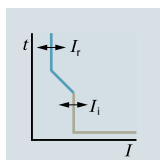
A

d

3-pole, fixed-mounted, 3VA11/3VA12/3VA13/3VA14, up to 630 A
Thermal-magnetic trip unit



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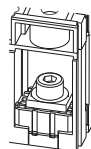


Line protection, TM240 ATAM

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

Connection with box terminal

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



Connection with 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	16 ... 32	160 ... 320	3VA1132-3EF32-0AA0
	40	28 ... 40	200 ... 400	3VA1140-3EF32-0AA0
	50	35 ... 50	250 ... 500	3VA1150-3EF32-0AA0
	63	44 ... 63	315 ... 630	3VA1163-3EF32-0AA0
	80	56 ... 80	400 ... 800	3VA1180-3EF32-0AA0
	100	70 ... 100	500 ... 1000	3VA1110-3EF32-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3EF32-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3EF32-0AA0
3VA12	160	112 ... 160	800 ... 1600	--
	200	140 ... 200	1000 ... 2000	--
	250	175 ... 250	1250 ... 2500	--
3VA13 NEW	320	220 ... 320	1600 ... 3200	--
	400	280 ... 400	2000 ... 4000	--
3VA14 NEW	500	350 ... 500	2500 ... 5000	--
	630	440 ... 630	2520 ... 5040	--

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

Line protection

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		SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M M		SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H H	
		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		

2

Line protection, TM240 ATAMWith adjustable overload protection I_r and adjustable short-circuit protection I_i **Connection with box terminal**

16	3VA1196-4EF36-0AA0	3VA1196-5EF36-0AA0	3VA1196-6EF36-0AA0
20	3VA1120-4EF36-0AA0	3VA1120-5EF36-0AA0	3VA1120-6EF36-0AA0
25	3VA1125-4EF36-0AA0	3VA1125-5EF36-0AA0	3VA1125-6EF36-0AA0
32	3VA1132-4EF36-0AA0	3VA1132-5EF36-0AA0	3VA1132-6EF36-0AA0
40	3VA1140-4EF36-0AA0	3VA1140-5EF36-0AA0	3VA1140-6EF36-0AA0
50	3VA1150-4EF36-0AA0	3VA1150-5EF36-0AA0	3VA1150-6EF36-0AA0
63	3VA1163-4EF36-0AA0	3VA1163-5EF36-0AA0	3VA1163-6EF36-0AA0
80	3VA1180-4EF36-0AA0	3VA1180-5EF36-0AA0	3VA1180-6EF36-0AA0
100	3VA1110-4EF36-0AA0	3VA1110-5EF36-0AA0	3VA1110-6EF36-0AA0
125	3VA1112-4EF36-0AA0	3VA1112-5EF36-0AA0	3VA1112-6EF36-0AA0
160	3VA1116-4EF36-0AA0	3VA1116-5EF36-0AA0	3VA1116-6EF36-0AA0

Connection with 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
NEW 320	3VA1332-4EF32-0AA0	3VA1332-5EF32-0AA0	3VA1332-6EF32-0AA0
400	3VA1340-4EF32-0AA0	3VA1340-5EF32-0AA0	3VA1340-6EF32-0AA0
NEW 500	3VA1450-4EF32-0AA0	3VA1450-5EF32-0AA0	3VA1450-6EF32-0AA0
630	3VA1463-4EF32-0AA0	3VA1463-5EF32-0AA0	3VA1463-6EF32-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

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 16 kA at 415 V, very low breaking capacity B
See "Overview", p. 2/6 and 2/7

B

Article No.
www.siemens.com/product?ArticleNo.

Basic price per PU

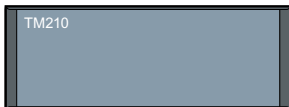
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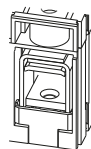
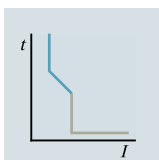
A

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



TM210
I201_19027

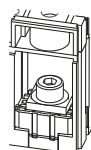


Line protection, TM210 FTFM, without neutral conductor protection

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

Connection with box terminal

3VA10	I_n	I_r	I_i	Article No.
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
3VA10	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	I_n	I_r	I_i	Article No.
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
3VA10	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

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

Line protection

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 See "Overview", p. 2/6 and 2/7	(N)	SD	I_{cu} up to 36 kA at 415 V, standard breaking capacity S See "Overview", p. 2/6 and 2/7	(S)
A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU

Line protection, TM210 FTFM, without neutral conductor protectionWith fixed overload protection I_f and fixed short-circuit protection I_s **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

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 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

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
See "Overview", p. 2/6 and 2/7

(N)

Article No.
www.siemens.com/product?Article No.

Basic price per PU

A

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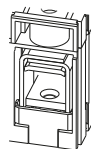
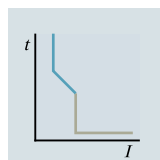
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4-pole, fixed-mounted, 3VA11, up to 160 A Thermal-magnetic trip unit



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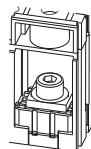


Line protection, TM210 FTFM, without neutral conductor protection

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

Connection with box terminal

3VA11	Rated current I_n	Overload setting I_r	Short-circuit setting I_i	Article No.
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

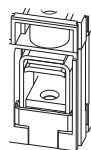
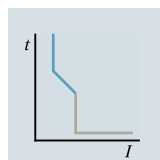


Connection with nut keeper kit

3VA11	Rated current I_n	Overload setting I_r	Short-circuit setting I_i	Article No.
3VA11	16	16	320	3VA1196-3ED42-0AA0
	20	20	320	3VA1120-3ED42-0AA0
	25	25	320	3VA1125-3ED42-0AA0
	32	32	320	3VA1132-3ED42-0AA0
	40	40	400	3VA1140-3ED42-0AA0
	50	50	500	3VA1150-3ED42-0AA0
	63	63	630	3VA1163-3ED42-0AA0
	80	80	800	3VA1180-3ED42-0AA0
	100	100	1000	3VA1110-3ED42-0AA0
	125	125	1250	3VA1112-3ED42-0AA0
	160	160	1600	3VA1116-3ED42-0AA0



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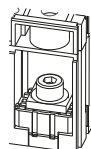


Line protection, TM210 FTFM, 50% neutral conductor protection

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

Connection with box terminal

3VA11	Rated current I_n	Overload setting I_r	Short-circuit setting I_i	Article No.
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	Rated current I_n	Overload setting I_r	Short-circuit setting I_i	Article No.
3VA11	100	100	1000	3VA1110-3FD42-0AA0
	125	125	1250	3VA1112-3FD42-0AA0
	160	160	1600	3VA1116-3FD42-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

Line protection

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		SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M M		SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H H	
		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, TM210 FTFM, without neutral conductor protectionWith fixed overload protection I_T and fixed short-circuit protection I_f

Connection with box terminal

Rated current I_n	Article No.	Article No.	Article No.
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

Rated current I_n	Article No.	Article No.	Article No.
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 protectionWith fixed overload protection I_T and fixed short-circuit protection I_f

Connection with box terminal

Rated current I_n	Article No.	Article No.	Article No.
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

Rated current I_n	Article No.	Article No.	Article No.
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

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

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
See "Overview", p. 2/6 and 2/7

N

Article No.
www.siemens.com/product?ArticleNo.

Basic price per PU

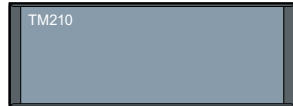
A

A

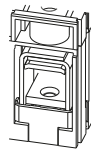
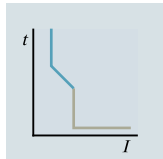
A

d

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



I201_19027

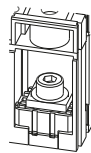


Line protection, TM210 FTFM, 100% neutral conductor protection

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

Connection with box terminal

3VA11	I_n	I_r	I_i	Article No.
16	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	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	100	1000	3VA1110-3GD46-0AA0
	125	125	1250	3VA1112-3GD46-0AA0
	160	160	1600	3VA1116-3GD46-0AA0

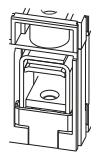
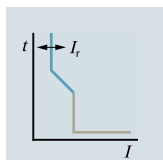


Connection with nut keeper kit

3VA11	I_n	I_r	I_i	Article No.
16	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	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	100	1000	3VA1110-3GD42-0AA0
	125	125	1250	3VA1112-3GD42-0AA0
	160	160	1600	3VA1116-3GD42-0AA0



I201_19028

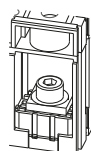


Line protection, TM220 ATFM, without neutral conductor protection

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

Connection with box terminal

3VA11	I_n	I_r	I_i	Article No.
16	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	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	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	I_n	I_r	I_i	Article No.
16	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	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	100	70 ... 100	1000	3VA1110-3EE42-0AA0
	125	88 ... 125	1250	3VA1112-3EE42-0AA0
	160	112 ... 160	1600	3VA1116-3EE42-0AA0

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		SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M M		SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H H	
		See "Overview", p. 2/6 and 2/7			See "Overview", p. 2/6 and 2/7			See "Overview", p. 2/6 and 2/7	
A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU

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

Connection with box terminal			
16		3VA1196-4GD46-0AA0	3VA1196-5GD46-0AA0
20		3VA1120-4GD46-0AA0	3VA1120-5GD46-0AA0
25		3VA1125-4GD46-0AA0	3VA1125-5GD46-0AA0
32		3VA1132-4GD46-0AA0	3VA1132-5GD46-0AA0
40		3VA1140-4GD46-0AA0	3VA1140-5GD46-0AA0
50		3VA1150-4GD46-0AA0	3VA1150-5GD46-0AA0
63		3VA1163-4GD46-0AA0	3VA1163-5GD46-0AA0
80		3VA1180-4GD46-0AA0	3VA1180-5GD46-0AA0
100		3VA1110-4GD46-0AA0	3VA1110-5GD46-0AA0
125		3VA1112-4GD46-0AA0	3VA1112-5GD46-0AA0
160		3VA1116-4GD46-0AA0	3VA1116-5GD46-0AA0

Connection with nut keeper kit			
16		3VA1196-4GD42-0AA0	3VA1196-5GD42-0AA0
20		3VA1120-4GD42-0AA0	3VA1120-5GD42-0AA0
25		3VA1125-4GD42-0AA0	3VA1125-5GD42-0AA0
32		3VA1132-4GD42-0AA0	3VA1132-5GD42-0AA0
40		3VA1140-4GD42-0AA0	3VA1140-5GD42-0AA0
50		3VA1150-4GD42-0AA0	3VA1150-5GD42-0AA0
63		3VA1163-4GD42-0AA0	3VA1163-5GD42-0AA0
80		3VA1180-4GD42-0AA0	3VA1180-5GD42-0AA0
100		3VA1110-4GD42-0AA0	3VA1110-5GD42-0AA0
125		3VA1112-4GD42-0AA0	3VA1112-5GD42-0AA0
160		3VA1116-4GD42-0AA0	3VA1116-5GD42-0AA0

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

Connection with box terminal			
16		3VA1196-4EE46-0AA0	3VA1196-5EE46-0AA0
20		3VA1120-4EE46-0AA0	3VA1120-5EE46-0AA0
25		3VA1125-4EE46-0AA0	3VA1125-5EE46-0AA0
32		3VA1132-4EE46-0AA0	3VA1132-5EE46-0AA0
40		3VA1140-4EE46-0AA0	3VA1140-5EE46-0AA0
50		3VA1150-4EE46-0AA0	3VA1150-5EE46-0AA0
63		3VA1163-4EE46-0AA0	3VA1163-5EE46-0AA0
80		3VA1180-4EE46-0AA0	3VA1180-5EE46-0AA0
100		3VA1110-4EE46-0AA0	3VA1110-5EE46-0AA0
125		3VA1112-4EE46-0AA0	3VA1112-5EE46-0AA0
160		3VA1116-4EE46-0AA0	3VA1116-5EE46-0AA0

Connection with nut keeper kit			
16		3VA1196-4EE42-0AA0	3VA1196-5EE42-0AA0
20		3VA1120-4EE42-0AA0	3VA1120-5EE42-0AA0
25		3VA1125-4EE42-0AA0	3VA1125-5EE42-0AA0
32		3VA1132-4EE42-0AA0	3VA1132-5EE42-0AA0
40		3VA1140-4EE42-0AA0	3VA1140-5EE42-0AA0
50		3VA1150-4EE42-0AA0	3VA1150-5EE42-0AA0
63		3VA1163-4EE42-0AA0	3VA1163-5EE42-0AA0
80		3VA1180-4EE42-0AA0	3VA1180-5EE42-0AA0
100		3VA1110-4EE42-0AA0	3VA1110-5EE42-0AA0
125		3VA1112-4EE42-0AA0	3VA1112-5EE42-0AA0
160		3VA1116-4EE42-0AA0	3VA1116-5EE42-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

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
See "Overview", p. 2/6 and 2/7

(N)

Article No.
www.siemens.com/product?ArticleNo.

Basic price per PU

A

A

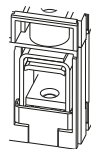
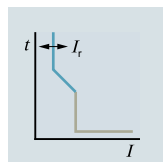
A

d

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



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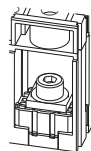
Line protection, TM220 ATFM, 50% neutral conductor protection

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

Connection with box terminal

3VA11	I_n	I_r	I_i
	100	70 ... 100	1000
	125	88 ... 125	1250
	160	112 ... 160	1600

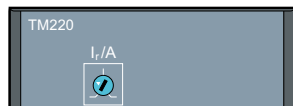
3VA1110-3FE46-0AA0
3VA1112-3FE46-0AA0
3VA1116-3FE46-0AA0



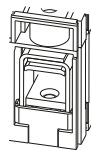
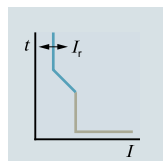
Connection with nut keeper kit

3VA11	I_n	I_r	I_i
	100	70 ... 100	1000
	125	88 ... 125	1250
	160	112 ... 160	1600

3VA1110-3FE42-0AA0
3VA1112-3FE42-0AA0
3VA1116-3FE42-0AA0



1201_19028



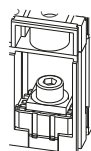
Line protection, TM220 ATFM, 100% neutral conductor protection

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

Connection with box terminal

3VA11	I_n	I_r	I_i
	16	11 ... 16	320
	20	14 ... 20	320
	25	18 ... 25	320
	32	22 ... 32	320
	40	28 ... 40	400
	50	35 ... 50	500
	63	44 ... 63	630
	80	56 ... 80	800
	100	70 ... 100	1000
	125	88 ... 125	1250
	160	112 ... 160	1600

3VA1196-3GE46-0AA0
3VA1120-3GE46-0AA0
3VA1125-3GE46-0AA0
3VA1132-3GE46-0AA0



Connection with nut keeper kit

3VA11	I_n	I_r	I_i
	16	11 ... 16	320
	20	14 ... 20	320
	25	18 ... 25	320
	32	22 ... 32	320
	40	28 ... 40	400
	50	35 ... 50	500
	63	44 ... 63	630
	80	56 ... 80	800
	100	70 ... 100	1000
	125	88 ... 125	1250
	160	112 ... 160	1600

3VA1196-3GE42-0AA0
3VA1120-3GE42-0AA0
3VA1125-3GE42-0AA0
3VA1132-3GE42-0AA0
3VA1140-3GE42-0AA0
3VA1150-3GE42-0AA0
3VA1163-3GE42-0AA0
3VA1180-3GE42-0AA0
3VA1110-3GE42-0AA0
3VA1112-3GE42-0AA0
3VA1116-3GE42-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

Line protection

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 See "Overview", p. 2/6 and 2/7	Basic price per PU	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	Basic price per PU	SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H See "Overview", p. 2/6 and 2/7	Basic price per PU
A	d	Article No. www.siemens.com/ product?Article No.		d	Article No. www.siemens.com/ product?Article No.		d	Article No. www.siemens.com/ product?Article No.	

Line protection, TM220 ATFM, 50% neutral conductor protectionWith adjustable overload protection I_f and fixed short-circuit protection I_f

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 protectionWith adjustable overload protection I_f and fixed short-circuit protection I_f

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		

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 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 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
See "Overview", p. 2/6 and 2/7

N

Article No.
www.siemens.com/product?ArticleNo.

Basic price per PU

A

A

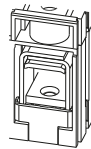
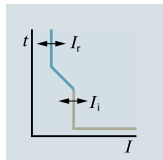
A

d

4-pole, fixed-mounted, 3VA11/3VA12/3VA13/3VA14, up to 630 A Thermal-magnetic trip unit



1201_19035



Line protection, TM240 ATAM, without neutral conductor protection

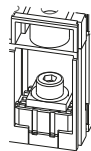
With adjustable overload protection I_r and adjustable short-circuit protection I_i

Connection with box terminal

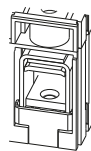
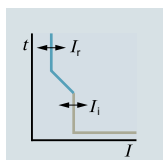
3VA11	I_n	I_r	I_i	Article No.
16	11 ... 16	160 ... 320	3VA1196-3EF46-0AA0	
	14 ... 20	160 ... 320	3VA1120-3EF46-0AA0	
	18 ... 25	160 ... 320	3VA1125-3EF46-0AA0	
	16 ... 32	160 ... 320	3VA1132-3EF46-0AA0	
40	28 ... 40	200 ... 400	3VA1140-3EF46-0AA0	
	35 ... 50	250 ... 500	3VA1150-3EF46-0AA0	
	44 ... 63	315 ... 630	3VA1163-3EF46-0AA0	
	56 ... 80	400 ... 800	3VA1180-3EF46-0AA0	
100	70 ... 100	500 ... 1000	3VA1110-3EF46-0AA0	
	88 ... 125	625 ... 1250	3VA1112-3EF46-0AA0	
	112 ... 160	800 ... 1600	3VA1116-3EF46-0AA0	

Connection with nut keeper kit

3VA11	I_n	I_r	I_i	Article No.
16	11 ... 16	160 ... 320	3VA1196-3EF42-0AA0	
	14 ... 20	160 ... 320	3VA1120-3EF42-0AA0	
	18 ... 25	160 ... 320	3VA1125-3EF42-0AA0	
	16 ... 32	160 ... 320	3VA1132-3EF42-0AA0	
40	28 ... 40	200 ... 400	3VA1140-3EF42-0AA0	
	35 ... 50	250 ... 500	3VA1150-3EF42-0AA0	
	44 ... 63	315 ... 630	3VA1163-3EF42-0AA0	
	56 ... 80	400 ... 800	3VA1180-3EF42-0AA0	
100	70 ... 100	500 ... 1000	3VA1110-3EF42-0AA0	
	88 ... 125	625 ... 1250	3VA1112-3EF42-0AA0	
	112 ... 160	800 ... 1600	3VA1116-3EF42-0AA0	
3VA12	160	112 ... 160	800 ... 1600	--
	200	140 ... 200	1000 ... 2000	--
	250	175 ... 250	1250 ... 2500	--
3VA13 NEW	320	220 ... 320	1600 ... 3200	--
	400	280 ... 400	2000 ... 4000	--
3VA14 NEW	500	350 ... 500	2500 ... 5000	--
	630	440 ... 630	2520 ... 5040	--



1201_19035



Line protection, TM240 ATAM, 50% neutral conductor protection

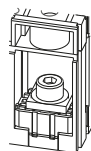
With adjustable overload protection I_r and adjustable short-circuit protection I_i

Connection with box terminal

3VA11	I_n	I_r	I_i	Article No.
100	70 ... 100	500 ... 1000	3VA1110-3FF46-0AA0	
	88 ... 125	625 ... 1250	3VA1112-3FF46-0AA0	
	112 ... 160	800 ... 1600	3VA1116-3FF46-0AA0	

Connection with nut keeper kit

3VA11	I_n	I_r	I_i	Article No.
100	70 ... 100	500 ... 1000	3VA1110-3FF42-0AA0	
	88 ... 125	625 ... 1250	3VA1112-3FF42-0AA0	
	112 ... 160	800 ... 1600	3VA1116-3FF42-0AA0	
3VA12	160	112 ... 160	800 ... 1600	--
	200	140 ... 200	1000 ... 2000	--
	250	175 ... 250	1250 ... 2500	--
3VA13 NEW	320	220 ... 320	1600 ... 3200	--
	400	280 ... 400	2000 ... 4000	--
3VA14 NEW	500	350 ... 500	2500 ... 5000	--
	630	440 ... 630	2520 ... 5040	--



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 See "Overview", p. 2/6 and 2/7	(S)	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	(M)	SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H See "Overview", p. 2/6 and 2/7	(H)
		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, without neutral conductor protectionWith adjustable overload protection I_r and adjustable short-circuit protection I_i **Connection with box terminal**

16	3VA1196-4EF46-0AA0	3VA1196-5EF46-0AA0	3VA1196-6EF46-0AA0
20	3VA1120-4EF46-0AA0	3VA1120-5EF46-0AA0	3VA1120-6EF46-0AA0
25	3VA1125-4EF46-0AA0	3VA1125-5EF46-0AA0	3VA1125-6EF46-0AA0
32	3VA1132-4EF46-0AA0	3VA1132-5EF46-0AA0	3VA1132-6EF46-0AA0
40	3VA1140-4EF46-0AA0	3VA1140-5EF46-0AA0	3VA1140-6EF46-0AA0
50	3VA1150-4EF46-0AA0	3VA1150-5EF46-0AA0	3VA1150-6EF46-0AA0
63	3VA1163-4EF46-0AA0	3VA1163-5EF46-0AA0	3VA1163-6EF46-0AA0
80	3VA1180-4EF46-0AA0	3VA1180-5EF46-0AA0	3VA1180-6EF46-0AA0
100	3VA1110-4EF46-0AA0	3VA1110-5EF46-0AA0	3VA1110-6EF46-0AA0
125	3VA1112-4EF46-0AA0	3VA1112-5EF46-0AA0	3VA1112-6EF46-0AA0
160	3VA1116-4EF46-0AA0	3VA1116-5EF46-0AA0	3VA1116-6EF46-0AA0

Connection with 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
NEW 320	3VA1332-4EF42-0AA0	3VA1332-5EF42-0AA0	3VA1332-6EF42-0AA0
400	3VA1340-4EF42-0AA0	3VA1340-5EF42-0AA0	3VA1340-6EF42-0AA0
NEW 500	3VA1450-4EF42-0AA0	3VA1450-5EF42-0AA0	3VA1450-6EF42-0AA0
630	3VA1463-4EF42-0AA0	3VA1463-5EF42-0AA0	3VA1463-6EF42-0AA0

Line protection, TM240 ATAM, 50% neutral conductor protectionWith 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
NEW 320	3VA1332-4FF42-0AA0	3VA1332-5FF42-0AA0	3VA1332-6FF42-0AA0
400	3VA1340-4FF42-0AA0	3VA1340-5FF42-0AA0	3VA1340-6FF42-0AA0
NEW 500	3VA1450-4FF42-0AA0	3VA1450-5FF42-0AA0	3VA1450-6FF42-0AA0
630	3VA1463-4FF42-0AA0	3VA1463-5FF42-0AA0	3VA1463-6FF42-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

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

See "Overview", p. 2/6 and 2/7

N

Article No.

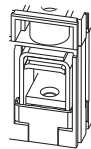
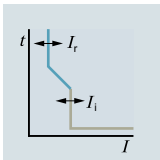
www.siemens.com/product?Article No.

Basic price per PU

4-pole, fixed-mounted, 3VA11/3VA12/3VA13/3VA14, up to 630 A
Thermal-magnetic trip unit



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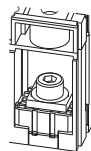


Line protection, TM240 ATAM, 100% neutral conductor protection

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

Connection with box terminal

3VA11	Rated current I_n	Overload protection I_r	Short-circuit protection I_i	Article No.
3VA11	16	11 ... 16	160 ... 320	3VA1196-3GF46-0AA0
	20	14 ... 20	160 ... 320	3VA1120-3GF46-0AA0
	25	18 ... 25	160 ... 320	3VA1125-3GF46-0AA0
	32	16 ... 32	160 ... 320	3VA1132-3GF46-0AA0
	40	28 ... 40	200 ... 400	3VA1140-3GF46-0AA0
	50	35 ... 50	250 ... 500	3VA1150-3GF46-0AA0
	63	44 ... 63	315 ... 630	3VA1163-3GF46-0AA0
	80	56 ... 80	400 ... 800	3VA1180-3GF46-0AA0
	100	70 ... 100	500 ... 1000	3VA1110-3GF46-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3GF46-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3GF46-0AA0



Connection with nut keeper kit

3VA11	Rated current I_n	Overload protection I_r	Short-circuit protection I_i	Article No.
3VA11	16	11 ... 16	160 ... 320	3VA1196-3GF42-0AA0
	20	14 ... 20	160 ... 320	3VA1120-3GF42-0AA0
	25	18 ... 25	160 ... 320	3VA1125-3GF42-0AA0
	32	16 ... 32	160 ... 320	3VA1132-3GF42-0AA0
	40	28 ... 40	200 ... 400	3VA1140-3GF42-0AA0
	50	35 ... 50	250 ... 500	3VA1150-3GF42-0AA0
	63	44 ... 63	315 ... 630	3VA1163-3GF42-0AA0
	80	56 ... 80	400 ... 800	3VA1180-3GF42-0AA0
	100	70 ... 100	500 ... 1000	3VA1110-3GF42-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3GF42-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3GF42-0AA0
3VA12	160	112 ... 160	800 ... 1600	--
	200	140 ... 200	1000 ... 2000	--
	250	175 ... 250	1250 ... 2500	--
3VA13 NEW	320	220 ... 320	1600 ... 3200	--
	400	280 ... 400	2000 ... 4000	--
3VA14 NEW	500	350 ... 500	2500 ... 5000	--
	630	440 ... 630	2520 ... 5040	--

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

Line protection

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		SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M M		SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H H	
		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, 100% neutral conductor protectionWith adjustable overload protection I_f and adjustable short-circuit protection I_s

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
NEW 320	3VA1332-4GF42-0AA0	3VA1332-5GF42-0AA0	3VA1332-6GF42-0AA0
400	3VA1340-4GF42-0AA0	3VA1340-5GF42-0AA0	3VA1340-6GF42-0AA0
NEW 500	3VA1450-4GF42-0AA0	3VA1450-5GF42-0AA0	3VA1450-6GF42-0AA0
630	3VA1463-4GF42-0AA0	3VA1463-5GF42-0AA0	3VA1463-6GF42-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC

Starter protection

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

See "Overview", p. 2/6 and 2/7

Article No. www.siemens.com/product?ArticleNo.

Basic price per PU

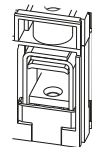
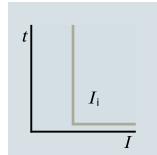


d

3-pole, fixed-mounted, 3VA11/3VA12/3VA13/3VA14, up to 500 A
Magnetic trip unit



i201_19523



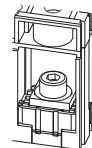
Starter protection, TM110M FM **NEW**

With fixed short-circuit protection I_i

Connection with box terminal

3VA11	8	--	128
	12.5	--	200

3VA1108-5MG36-0AA0
3VA1192-5MG36-0AA0



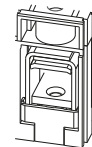
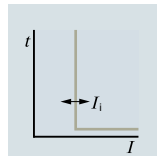
Connection with nut keeper kit

3VA11	8	--	128
	12.5	--	200

3VA1108-5MG32-0AA0
3VA1192-5MG32-0AA0



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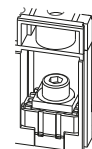
Starter protection, TM120M AM

With adjustable short-circuit protection I_i

Connection with box terminal

3VA11	20	NEW	--	140 ... 320
	32	--	--	220 ... 510
	40	--	--	280 ... 640
	50	--	--	350 ... 800
	63	--	--	440 ... 1010
	80	--	--	560 ... 1280
	100	--	--	700 ... 1600
	125	--	--	875 ... 2000

3VA1120-5MH36-0AA0
3VA1132-5MH36-0AA0
3VA1140-5MH36-0AA0
3VA1150-5MH36-0AA0



Connection with nut keeper kit

3VA11	20	NEW	--	140 ... 320
	32	--	--	220 ... 510
	40	--	--	280 ... 640
	50	--	--	350 ... 800
	63	--	--	440 ... 1010
	80	--	--	560 ... 1280
	100	--	--	700 ... 1600
	125	--	--	875 ... 2000
3VA12	160	--	--	1120 ... 2560
	200	--	--	1200 ... 2800
3VA13	250	NEW	--	2000 ... 4000
	320	--	--	2240 ... 4480
3VA14	400	NEW	--	2400 ... 4800
	500	--	--	2500 ... 5000

3VA1120-5MH32-0AA0
3VA1132-5MH32-0AA0
3VA1140-5MH32-0AA0
3VA1150-5MH32-0AA0

3VA1163-5MH36-0AA0
3VA1180-5MH36-0AA0
3VA1110-5MH36-0AA0
3VA1112-5MH36-0AA0

3VA1216-5MH32-0AA0
3VA1220-5MH32-0AA0

3VA1325-5MH32-0AA0
3VA1332-5MH32-0AA0

3VA1440-5MH32-0AA0
3VA1450-5MH32-0AA0

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 See "Overview", p. 2/6 and 2/7 H	Article No. www.siemens.com/ product?Article No.	Basic price per PU
A	d			

Starter protection, TM110M FM NEWWith fixed short-circuit protection I_f

8		Connection with box terminal	3VA1108-6MG36-0AA0 3VA1192-6MG36-0AA0
12.5			

8		Connection with nut keeper kit	3VA1108-6MG32-0AA0 3VA1192-6MG32-0AA0
12.5			

Starter protection, TM120M AMWith adjustable short-circuit protection I_f

20	NEW	Connection with box terminal	3VA1120-6MH36-0AA0 3VA1132-6MH36-0AA0 3VA1140-6MH36-0AA0 3VA1150-6MH36-0AA0
32			
40			
50			
63			3VA1163-6MH36-0AA0
80			3VA1180-6MH36-0AA0
100			3VA1110-6MH36-0AA0
125			3VA1112-6MH36-0AA0

20	NEW	Connection with nut keeper kit	3VA1120-6MH32-0AA0 3VA1132-6MH32-0AA0 3VA1140-6MH32-0AA0 3VA1150-6MH32-0AA0
32			
40			
50			
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

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 630 A, IEC


Switch disconnectors

Selection and ordering data

PU (UNIT, SET, M) = 1

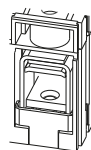
PS = 1 UNIT

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, 3VA11/3VA12/3VA13/3VA14, up to 630 A
Without trip unit

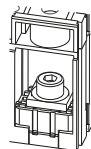
Switch disconnector without SD100 trip unit



Connection with box terminal

3VA11	63	--	--
	100	--	--
	125	--	--
	160	--	--

3VA1163-1AA36-0AA0
3VA1110-1AA36-0AA0
3VA1112-1AA36-0AA0
3VA1116-1AA36-0AA0



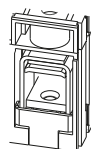
Connection with nut keeper kit

3VA11	63	--	--
	100	--	--
	125	--	--
	160	--	--
3VA12	250	--	--
3VA13 NEW	400	--	--

3VA1163-1AA32-0AA0
3VA1110-1AA32-0AA0
3VA1112-1AA32-0AA0
3VA1116-1AA32-0AA0
3VA1225-1AA32-0AA0
3VA1340-1AA32-0AA0

4-pole, fixed-mounted, 3VA11/3VA12/3VA13/3VA14, up to 630 A
Without trip unit

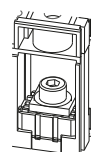
Switch disconnector without SD100 trip unit



Connection with box terminal

3VA11	63	--	--
	100	--	--
	125	--	--
	160	--	--
3VA13	400	--	--

3VA1163-1AA46-0AA0
3VA1110-1AA46-0AA0
3VA1112-1AA46-0AA0
3VA1116-1AA46-0AA0



Connection with nut keeper kit

3VA11	63	--	--
	100	--	--
	125	--	--
	160	--	--
3VA12	250	--	--
3VA13 NEW	400	--	--

3VA1163-1AA42-0AA0
3VA1110-1AA42-0AA0
3VA1112-1AA42-0AA0
3VA1116-1AA42-0AA0
3VA1225-1AA42-0AA0
3VA1340-1AA42-0AA0

Note

You will find the 3VA2 molded case circuit breakers up to 1000 A, IEC from page [2/46](#) onwards.

Molded Case Circuit Breakers

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

Line protection

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

See "Overview", p. 2/8 and 2/9
Article No.
www.siemens.com/product?ArticleNo.

Basic price per PU



d

3-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A Electronic Trip Unit



1201_18857

Line protection, ETU320 LI

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

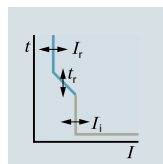
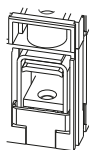
Connection with box terminal

3VA20	25	10 ... 25	38 ... 300
	40	16 ... 40	60 ... 480
63	25 ... 63	95 ... 756	
	100	40 ... 100	150 ... 1200

3VA2025-5HL36-0AA0
3VA2040-5HL36-0AA0
3VA2063-5HL36-0AA0
3VA2010-5HL36-0AA0

3VA21	25	10 ... 25	38 ... 300
	40	16 ... 40	60 ... 480
63	25 ... 63	95 ... 756	
	100	40 ... 100	150 ... 1200
160	63 ... 160	240 ... 1600	

3VA2125-5HL36-0AA0
3VA2140-5HL36-0AA0
3VA2163-5HL36-0AA0
3VA2110-5HL36-0AA0
3VA2116-5HL36-0AA0



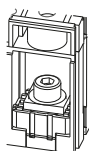
Connection with nut keeper kit

3VA20	25	10 ... 25	38 ... 300
	40	16 ... 40	60 ... 480
63	25 ... 63	95 ... 756	
	100	40 ... 100	150 ... 1200

3VA2025-5HL32-0AA0
3VA2040-5HL32-0AA0
3VA2063-5HL32-0AA0
3VA2010-5HL32-0AA0

3VA21	25	10 ... 25	38 ... 300
	40	16 ... 40	60 ... 480
63	25 ... 63	95 ... 756	
	100	40 ... 100	150 ... 1200
160	63 ... 160	240 ... 1600	

3VA2125-5HL32-0AA0
3VA2140-5HL32-0AA0
3VA2163-5HL32-0AA0
3VA2110-5HL32-0AA0
3VA2116-5HL32-0AA0



3VA22	160	63 ... 160	240 ... 1920
	250	100 ... 250	375 ... 2500

3VA2216-5HL32-0AA0
3VA2225-5HL32-0AA0

3VA23	250	100 ... 250	375 ... 3000
	400	160 ... 400	600 ... 4000

3VA2325-5HL32-0AA0
3VA2340-5HL32-0AA0

3VA24	400	160 ... 400	600 ... 4800 ¹⁾
	630	250 ... 630	945 ... 5670

3VA2440-5HL32-0AA0
3VA2463-5HL32-0AA0

3VA25	630 ²⁾	250 ... 630	945 ... 7560
	800	320 ... 800	1200 ... 8000
	1000	400 ... 1000	1500 ... 10000

3VA2563-5HL32-0AA0
3VA2580-5HL32-0AA0
3VA2510-5HL32-0AA0

¹⁾ At breaking capacity L 4400 A

²⁾ Start of delivery scheduled for 3rd quarter 2018

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2

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

Line protection, ETU320 LIWith 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 ¹⁾	3VA2563-6HL32-0AA0	3VA2563-7HL32-0AA0	--
800	3VA2580-6HL32-0AA0	3VA2580-7HL32-0AA0	--
1000	3VA2510-6HL32-0AA0	3VA2510-7HL32-0AA0	--

¹⁾ Start of delivery scheduled for 3rd quarter 2018

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

Conne-
tion
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**

 Article No.
[www.siemens.com/
product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)

 Basic
price
per PU

A

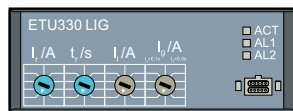
A

A

A

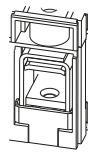
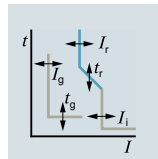
d

3-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A Electronic Trip Unit



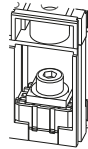
I201_18426

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

Model	I_n	I_r	I_i	I_g	Product Code
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

Model	I_n	I_r	I_i	I_g	Product Code
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
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 ²⁾	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

²⁾ Start of delivery scheduled for 3rd quarter 2018

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

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

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

25	3VA2025-6HM36-0AA0	3VA2025-7HM36-0AA0
40	3VA2040-6HM36-0AA0	3VA2040-7HM36-0AA0
63	3VA2063-6HM36-0AA0	3VA2063-7HM36-0AA0
100	3VA2010-6HM36-0AA0	3VA2010-7HM36-0AA0
25	3VA2125-6HM36-0AA0	3VA2125-7HM36-0AA0
40	3VA2140-6HM36-0AA0	3VA2140-7HM36-0AA0
63	3VA2163-6HM36-0AA0	3VA2163-7HM36-0AA0
100	3VA2110-6HM36-0AA0	3VA2110-7HM36-0AA0
160	3VA2116-6HM36-0AA0	3VA2116-7HM36-0AA0

Connection with nut keeper kit

25	3VA2025-6HM32-0AA0	3VA2025-7HM32-0AA0
40	3VA2040-6HM32-0AA0	3VA2040-7HM32-0AA0
63	3VA2063-6HM32-0AA0	3VA2063-7HM32-0AA0
100	3VA2010-6HM32-0AA0	3VA2010-7HM32-0AA0
25	3VA2125-6HM32-0AA0	3VA2125-7HM32-0AA0
40	3VA2140-6HM32-0AA0	3VA2140-7HM32-0AA0
63	3VA2163-6HM32-0AA0	3VA2163-7HM32-0AA0
100	3VA2110-6HM32-0AA0	3VA2110-7HM32-0AA0
160	3VA2116-6HM32-0AA0	3VA2116-7HM32-0AA0
160	3VA2216-6HM32-0AA0	3VA2216-7HM32-0AA0
250	3VA2225-6HM32-0AA0	3VA2225-7HM32-0AA0
250	3VA2325-6HM32-0AA0	3VA2325-7HM32-0AA0
400	3VA2340-6HM32-0AA0	3VA2340-7HM32-0AA0
400	3VA2440-6HM32-0AA0	3VA2440-7HM32-0AA0
630	3VA2463-6HM32-0AA0	3VA2463-7HM32-0AA0
630 ¹⁾	3VA2563-6HM32-0AA0	3VA2563-7HM32-0AA0
800	3VA2580-6HM32-0AA0	3VA2580-7HM32-0AA0
1000	3VA2510-6HM32-0AA0	3VA2510-7HM32-0AA0

¹⁾ Start of delivery scheduled for 3rd quarter 2018

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

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 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

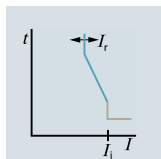
A

d

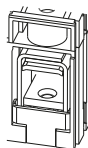
3-pole, fixed-mounted, 3VA21 to 3VA25, up to 1000 A Electronic Trip Unit



I201_18427



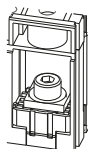
Line protection, ETU340 ELISA

With **easily** adjustable characteristic (characteristic form of a fuse)

Connection with box terminal

3VA21	25	10 ... 25	375
	40	16 ... 40	600
	63	25 ... 63	945
	100	40 ... 100	1500

3VA2125-5HK36-0AA0
3VA2140-5HK36-0AA0
3VA2163-5HK36-0AA0
3VA2110-5HK36-0AA0



Connection with nut keeper kit

3VA21	25	10 ... 25	375
	40	16 ... 40	600
	63	25 ... 63	945
	100	40 ... 100	1500
3VA22	160	63 ... 160	2400
3VA23	250	100 ... 250	3750
3VA24	400	160 ... 400	6000 ¹⁾
	500	200 ... 500	7000
	630	250 ... 630	5670
3VA25	630 ²⁾	250 ... 630	7560
	800	320 ... 800	8000
	1000	400 ... 1000	10000

3VA2125-5HK32-0AA0
3VA2140-5HK32-0AA0
3VA2163-5HK32-0AA0
3VA2110-5HK32-0AA0

3VA2216-5HK32-0AA0

3VA2325-5HK32-0AA0

3VA2440-5HK32-0AA0

3VA2450-5HK32-0AA0

3VA2463-5HK32-0AA0

3VA2563-5HK32-0AA0

3VA2580-5HK32-0AA0

3VA2510-5HK32-0AA0

¹⁾ At breaking capacity L 4400 A

²⁾ Start of delivery scheduled for 3rd quarter 2018

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

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H H		SD	I_{cu} up to 110 kA at 415 V, very high breaking capacity C C		SD	I_{cu} up to 150 kA at 415 V, extremely high breaking capacity L L	
		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		

2

Line protection, ETU340 ELISAWith **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 ¹⁾	3VA2563-6HK32-0AA0	3VA2563-7HK32-0AA0	--
800	3VA2580-6HK32-0AA0	3VA2580-7HK32-0AA0	--
1000	3VA2510-6HK32-0AA0	3VA2510-7HK32-0AA0	--

¹⁾ Start of delivery scheduled for 3rd quarter 2018

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

2

Conne-
tion
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

Article No.
[www.siemens.com/
product?Article No.](http://www.siemens.com/product?Article No.)

Basic
price
per PU

A

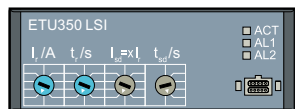
A

A

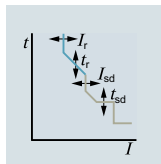
A

d

3-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A Electronic Trip Unit



I201_18430

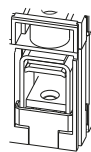


Line and generator protection, ETU350 LSI

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

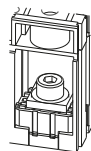
 $I_r \times \dots$

Connection with box terminal



			$I_r \times \dots$		
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



			$I_r \times \dots$		
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 ²⁾	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

²⁾ Start of delivery scheduled for 3rd quarter 2018

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

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H H		SD	I_{cu} up to 110 kA at 415 V, very high breaking capacity C C		SD	I_{cu} up to 150 kA at 415 V, extremely high breaking capacity L L	
		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		

2

Line and generator protection, ETU350 LSIWith adjustable overload protection I_r , adjustable delayed short-circuit protection I_{sd} and fixed instantaneous ground-fault 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 ¹⁾	3VA2563-6HN32-0AA0	3VA2563-7HN32-0AA0	--
800	3VA2580-6HN32-0AA0	3VA2580-7HN32-0AA0	--
1000	3VA2510-6HN32-0AA0	3VA2510-7HN32-0AA0	--

¹⁾ Start of delivery scheduled for 3rd quarter 2018

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

2



Conne-
tion
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

Article No.
[www.siemens.com/
product?Article No.](http://www.siemens.com/product?Article No.)

Basic
price
per PU

A

A

A

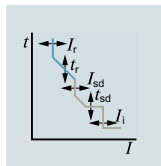
A

d

3-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A Electronic Trip Unit



1201_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 ²⁾	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

²⁾ Start of delivery scheduled for 3rd quarter 2018

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

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H H		SD	I_{cu} up to 110 kA at 415 V, very high breaking capacity C C		SD	I_{cu} up to 150 kA at 415 V, extremely high breaking capacity L L	
		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		

2

Line and generator protection, with display, ETU550 LSI

With adjustable overload protection I_n , 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 ¹⁾	3VA2563-6JP32-0AA0	3VA2563-7JP32-0AA0	--
800	3VA2580-6JP32-0AA0	3VA2580-7JP32-0AA0	--
1000	3VA2510-6JP32-0AA0	3VA2510-7JP32-0AA0	--

¹⁾ Start of delivery scheduled for 3rd quarter 2018

Molded Case Circuit Breakers

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

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

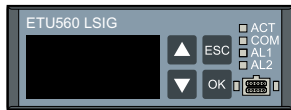
PG = 1CB

2

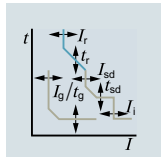


Conne- tion technology	Type	Rated current I_n	Current setting of the inverse- time delayed overload protection "L" I_r	S function (short-time delayed short-circuit protection "S") I_{sd}	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/8 and 2/9	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_16481

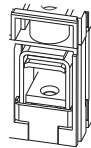


Line and generator protection, with display, ETU560 LSIG

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

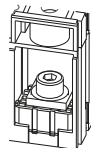
Connection with box terminal

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

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

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H H		SD	I_{cu} up to 110 kA at 415 V, very high breaking capacity C C		SD	I_{cu} up to 150 kA at 415 V, extremely high breaking capacity L L	
		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		

2

Line and generator protection, with display, ETU560 LSIG

With adjustable overload protection I_p , 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

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

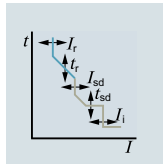


Conne- tion technology	Type	Rated current I_n	Current setting of the inverse- time delayed overload protection "L" I_r	S function (short-time delayed short-circuit protection "S") I_{sd}	Operating current of the instanta- neous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/8 and 2/9	Basic price per PU
		A	A	A	A	d	www.siemens.com/ product?ArticleNo.	

3-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A Electronic Trip Unit



I201_18482

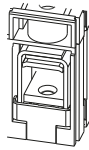


Line and generator protection, with display, with metering function, ETU850 LSI

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

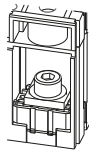
Connection with box terminal

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

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

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H H		SD	I_{cu} up to 110 kA at 415 V, very high breaking capacity C C		SD	I_{cu} up to 150 kA at 415 V, extremely high breaking capacity L L	
		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		

2

Line and generator protection, with display, with metering function, ETU850 LSIWith adjustable overload protection I_p , 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

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

2

Conne-
tion
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

Article No.
[www.siemens.com/
product?Article No.](http://www.siemens.com/product?ArticleNo.)

Basic
price
per PU

A

A

A

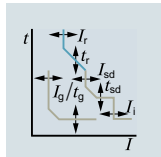
A

d

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 ²⁾	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

²⁾ Start of delivery scheduled for 3rd quarter 2018

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

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H H		SD	I_{cu} up to 110 kA at 415 V, very high breaking capacity C C		SD	I_{cu} up to 150 kA at 415 V, extremely high breaking capacity L L	
		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		

2

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 ¹⁾	3VA2563-6KQ32-0AA0	3VA2563-7KQ32-0AA0	--
800	3VA2580-6KQ32-0AA0	3VA2580-7KQ32-0AA0	--
1000	3VA2510-6KQ32-0AA0	3VA2510-7KQ32-0AA0	--

¹⁾ Start of delivery scheduled for 3rd quarter 2018

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 = 1 CB

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 55 kA at 415 V, medium breaking capacity M

See "Overview", p. 2/8 and 2/9

(M)

Article No.
www.siemens.com/product?ArticleNo.

Basic price per PU

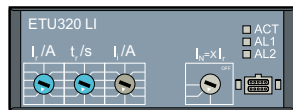
A

A

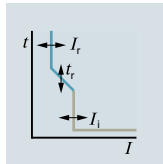
A

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4-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A Electronic Trip Unit

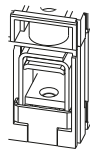


1201_18830



Line protection, ETU320 LI

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

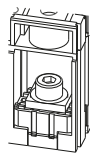


Connection with box terminal

3VA20	25	10 ... 25	38 ... 300
	40	16 ... 40	60 ... 480
	63	25 ... 63	95 ... 756
	100	40 ... 100	150 ... 1200
3VA21	25	10 ... 25	38 ... 300
	40	16 ... 40	60 ... 480
	63	25 ... 63	95 ... 756
	100	40 ... 100	150 ... 1200
	160	63 ... 160	240 ... 1600

3VA2025-5HL46-0AA0
3VA2040-5HL46-0AA0
3VA2063-5HL46-0AA0
3VA2010-5HL46-0AA0

3VA2125-5HL46-0AA0
3VA2140-5HL46-0AA0
3VA2163-5HL46-0AA0
3VA2110-5HL46-0AA0
3VA2116-5HL46-0AA0



Connection with nut keeper kit

3VA20	25	10 ... 25	38 ... 300
	40	16 ... 40	60 ... 480
	63	25 ... 63	95 ... 756
	100	40 ... 100	150 ... 1200
3VA21	25	10 ... 25	38 ... 300
	40	16 ... 40	60 ... 480
	63	25 ... 63	95 ... 756
	100	40 ... 100	150 ... 1200
	160	63 ... 160	240 ... 1600
3VA22	160	63 ... 160	240 ... 1920
	250	100 ... 250	375 ... 2500
3VA23	250	100 ... 250	375 ... 3000
	400	160 ... 400	600 ... 4000
3VA24	400	160 ... 400	600 ... 4800 ¹⁾
	630	250 ... 630	945 ... 5670
3VA25	630 ²⁾	250 ... 630	945 ... 7560
	800	320 ... 800	1200 ... 8000
	1000	400 ... 1000	1500 ... 10000

3VA2025-5HL42-0AA0
3VA2040-5HL42-0AA0
3VA2063-5HL42-0AA0
3VA2010-5HL42-0AA0

3VA2125-5HL42-0AA0
3VA2140-5HL42-0AA0
3VA2163-5HL42-0AA0
3VA2110-5HL42-0AA0
3VA2116-5HL42-0AA0

3VA2216-5HL42-0AA0
3VA2225-5HL42-0AA0

3VA2325-5HL42-0AA0
3VA2340-5HL42-0AA0

3VA2440-5HL42-0AA0
3VA2463-5HL42-0AA0

3VA2563-5HL42-0AA0
3VA2580-5HL42-0AA0
3VA2510-5HL42-0AA0

¹⁾ At breaking capacity L 4400 A

²⁾ Start of delivery scheduled for 3rd quarter 2018

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

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H H		SD	I_{cu} up to 110 kA at 415 V, very high breaking capacity C C		SD	I_{cu} up to 150 kA at 415 V, extremely high breaking capacity L L	
		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		

2

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 ¹⁾	3VA2563-6HL42-0AA0	3VA2563-7HL42-0AA0	--
800	3VA2580-6HL42-0AA0	3VA2580-7HL42-0AA0	--
1000	3VA2510-6HL42-0AA0	3VA2510-7HL42-0AA0	--

¹⁾ Start of delivery scheduled for 3rd quarter 2018

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

Conne-
tion
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 SD
protection G
 I_g **I_{cu} up to 55 kA at 415 V,
medium breaking capacity M**Article No.
[www.siemens.com/
product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)Basic
price
per PU

A

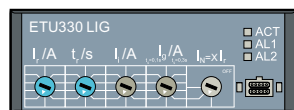
A

A

A

d

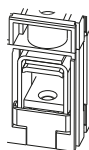
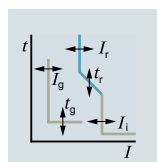
4-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A Electronic Trip Unit



I201_18829

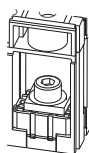
Line protection, ETU330 LIG

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

Model	Rated current I_n	Overload protection I_r	Instantaneous short-circuit protection I_i	Ground-fault protection I_g	Article No.
3VA20	25	10 ... 25	38 ... 300	15 ... 25	3VA2025-5HM46-0AA0 3VA2040-5HM46-0AA0 3VA2063-5HM46-0AA0 3VA2010-5HM46-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	
	63	25 ... 63	95 ... 756	16 ... 63	
	100	40 ... 100	150 ... 1200	20 ... 100	
3VA21	25	10 ... 25	38 ... 300	15 ... 25	3VA2125-5HM46-0AA0 3VA2140-5HM46-0AA0 3VA2163-5HM46-0AA0 3VA2110-5HM46-0AA0 3VA2116-5HM46-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	
	63	25 ... 63	95 ... 756	16 ... 63	
	100	40 ... 100	150 ... 1200	20 ... 100	
	160	63 ... 160	240 ... 1600	32 ... 160	



Connection with nut keeper kit

Model	Rated current I_n	Overload protection I_r	Instantaneous short-circuit protection I_i	Ground-fault protection I_g	Article No.
3VA20	25	10 ... 25	38 ... 300	15 ... 25	3VA2025-5HM42-0AA0 3VA2040-5HM42-0AA0 3VA2063-5HM42-0AA0 3VA2010-5HM42-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	
	63	25 ... 63	95 ... 756	16 ... 63	
	100	40 ... 100	150 ... 1200	20 ... 100	
3VA21	25	10 ... 25	38 ... 300	15 ... 25	3VA2125-5HM42-0AA0 3VA2140-5HM42-0AA0 3VA2163-5HM42-0AA0 3VA2110-5HM42-0AA0 3VA2116-5HM42-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	
	63	25 ... 63	95 ... 756	16 ... 63	
	100	40 ... 100	150 ... 1200	20 ... 100	
	160	63 ... 160	240 ... 1600	32 ... 160	
3VA22	160	63 ... 160	240 ... 1920	32 ... 160	3VA2216-5HM42-0AA0 3VA2225-5HM42-0AA0
	250	100 ... 250	375 ... 2500	50 ... 250	
3VA23	250	100 ... 250	375 ... 3000	50 ... 250	3VA2325-5HM42-0AA0 3VA2340-5HM42-0AA0
	400	160 ... 400	600 ... 4000	80 ... 400	
3VA24	400	160 ... 400	600 ... 4800 ¹⁾	80 ... 400	3VA2440-5HM42-0AA0 3VA2463-5HM42-0AA0
	630	250 ... 630	945 ... 5670	126 ... 630	
3VA25	630 ²⁾	250 ... 630	945 ... 7560	126 ... 630	3VA2563-5HM42-0AA0 3VA2580-5HM42-0AA0 3VA2510-5HM42-0AA0
	800	320 ... 800	1200 ... 8000	160 ... 800	
	1000	400 ... 1000	1500 ... 10000	200 ... 1000	

¹⁾ At breaking capacity L 4400 A

²⁾ Start of delivery scheduled for 3rd quarter 2018

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

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H H		SD	I_{cu} up to 110 kA at 415 V, very high breaking capacity C C		SD	I_{cu} up to 150 kA at 415 V, extremely high breaking capacity L L	
		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		

2

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 ¹⁾	3VA2563-6HM42-0AA0	3VA2563-7HM42-0AA0	--
800	3VA2580-6HM42-0AA0	3VA2580-7HM42-0AA0	--
1000	3VA2510-6HM42-0AA0	3VA2510-7HM42-0AA0	--

¹⁾ Start of delivery scheduled for 3rd quarter 2018

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

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 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

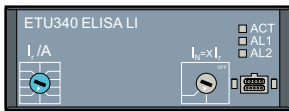
A

A

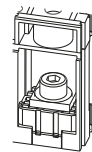
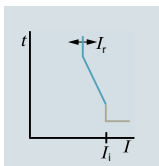
A

d

4-pole, fixed-mounted, 3VA21 to 3VA25, up to 1000 A Electronic Trip Unit



1201_19627



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
	40	16 ... 40	600
	63	25 ... 63	945
	100	40 ... 100	1500

3VA2125-5HK46-0AA0
3VA2140-5HK46-0AA0
3VA2163-5HK46-0AA0
3VA2110-5HK46-0AA0

Connection with nut keeper kit

3VA21	25	10 ... 25	375
	40	16 ... 40	600
	63	25 ... 63	945
	100	40 ... 100	1500
3VA22	160	63 ... 160	2400
3VA23	250	100 ... 250	3750
3VA24	400	160 ... 400	6000 ¹⁾
	500	200 ... 500	7000
	630	250 ... 630	5670
3VA25	630 ²⁾	250 ... 630	7560
	800	320 ... 800	8000
	1000	400 ... 1000	10000

3VA2125-5HK42-0AA0
3VA2140-5HK42-0AA0
3VA2163-5HK42-0AA0
3VA2110-5HK42-0AA0

3VA2216-5HK42-0AA0

3VA2325-5HK42-0AA0

3VA2440-5HK42-0AA0

3VA2450-5HK42-0AA0

3VA2463-5HK42-0AA0

3VA2563-5HK42-0AA0

3VA2580-5HK42-0AA0

3VA2510-5HK42-0AA0

¹⁾ At breaking capacity L 4400 A

²⁾ Start of delivery scheduled for 3rd quarter 2018

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

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H H		SD	I_{cu} up to 110 kA at 415 V, very high breaking capacity C C		SD	I_{cu} up to 150 kA at 415 V, extremely high breaking capacity L L	
		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		

2

Line protection, ETU340 ELISAWith **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 ¹⁾	3VA2563-6HK42-0AA0	3VA2563-7HK42-0AA0	--
800	3VA2580-6HK42-0AA0	3VA2580-7HK42-0AA0	--
1000	3VA2510-6HK42-0AA0	3VA2510-7HK42-0AA0	--

¹⁾ Start of delivery scheduled for 3rd quarter 2018

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

Conne-
tion
technology

Type

Rated
current
 I_n Current setting
of the inverse-
time delayed
overload
protection "L"
 I_r S function
(short-time
delayed
short-circuit
protection
"S")
 I_{sd} Operating
current of
the instan-
taneous
short-
circuit
protection
"I"
 I_i

SD

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

A

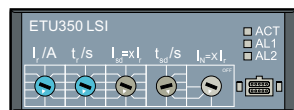
A

A

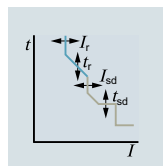
A

d

4-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A Electronic Trip Unit



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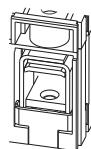


Line and generator protection, ETU350 LSI

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)

 $I_r \times \dots$

Connection with box terminal

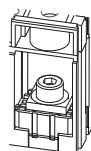


Model	I_n	I_r	I_{sd}	I_i
3VA20	25	10 ... 25	1.5 ... 10	300
	40	16 ... 40	1.5 ... 10	480
	63	25 ... 63	1.5 ... 10	756
	100	40 ... 100	1.5 ... 10	1200
3VA21	25	10 ... 25	1.5 ... 10	300
	40	16 ... 40	1.5 ... 10	480
	63	25 ... 63	1.5 ... 10	756
	100	40 ... 100	1.5 ... 10	1200
	160	63 ... 160	1.5 ... 10	1600

3VA2025-5HN46-0AA0
3VA2040-5HN46-0AA0
3VA2063-5HN46-0AA0
3VA2010-5HN46-0AA0

3VA2125-5HN46-0AA0
3VA2140-5HN46-0AA0
3VA2163-5HN46-0AA0
3VA2110-5HN46-0AA0
3VA2116-5HN46-0AA0

Connection with nut keeper kit



Model	I_n	I_r	I_{sd}	I_i
3VA20	25	10 ... 25	1.5 ... 10	300
	40	16 ... 40	1.5 ... 10	480
	63	25 ... 63	1.5 ... 10	756
	100	40 ... 100	1.5 ... 10	1200
3VA21	25	10 ... 25	1.5 ... 10	300
	40	16 ... 40	1.5 ... 10	480
	63	25 ... 63	1.5 ... 10	756
	100	40 ... 100	1.5 ... 10	1200
	160	63 ... 160	1.5 ... 10	1600
3VA22	160	63 ... 160	1.5 ... 10	1920
	250	100 ... 250	1.5 ... 10	2500
3VA23	250	100 ... 250	1.5 ... 10	3000
	400	160 ... 400	1.5 ... 10	4000
3VA24	400	160 ... 400	1.5 ... 10	4800 ¹⁾
	630	250 ... 630	1.5 ... 9	5670
3VA25	630 ²⁾	250 ... 630	1.5 ... 10	7560
	800	320 ... 800	1.5 ... 10	8000
	1000	400 ... 1000	1.5 ... 10	10000

3VA2025-5HN42-0AA0
3VA2040-5HN42-0AA0
3VA2063-5HN42-0AA0
3VA2010-5HN42-0AA0

3VA2125-5HN42-0AA0
3VA2140-5HN42-0AA0
3VA2163-5HN42-0AA0
3VA2110-5HN42-0AA0
3VA2116-5HN42-0AA0

3VA2216-5HN42-0AA0
3VA2225-5HN42-0AA0

3VA2325-5HN42-0AA0
3VA2340-5HN42-0AA0

3VA2440-5HN42-0AA0
3VA2463-5HN42-0AA0

3VA2563-5HN42-0AA0
3VA2580-5HN42-0AA0
3VA2510-5HN42-0AA0

¹⁾ At breaking capacity L 4400 A

²⁾ Start of delivery scheduled for 3rd quarter 2018

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

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H H		SD	I_{cu} up to 110 kA at 415 V, very high breaking capacity C C		SD	I_{cu} up to 150 kA at 415 V, extremely high breaking capacity L L	
		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		

2

Line and generator protection, ETU350 LSI

With adjustable overload protection I_n , 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 ¹⁾	3VA2563-6HN42-0AA0	3VA2563-7HN42-0AA0	--
800	3VA2580-6HN42-0AA0	3VA2580-7HN42-0AA0	--
1000	3VA2510-6HN42-0AA0	3VA2510-7HN42-0AA0	--

¹⁾ Start of delivery scheduled for 3rd quarter 2018

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

Conne-
tion
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**

 Article No.
[www.siemens.com/
product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)

 Basic
price
per PU

A

A

A

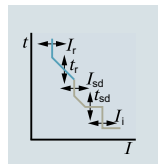
A

d

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 ²⁾	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

²⁾ Start of delivery scheduled for 3rd quarter 2018

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

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H H		SD	I_{cu} up to 110 kA at 415 V, very high breaking capacity C C		SD	I_{cu} up to 150 kA at 415 V, extremely high breaking capacity L L	
		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		

2

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 ¹⁾	3VA2563-6JP42-0AA0	3VA2563-7JP42-0AA0	--
800	3VA2580-6JP42-0AA0	3VA2580-7JP42-0AA0	--
1000	3VA2510-6JP42-0AA0	3VA2510-7JP42-0AA0	--

¹⁾ Start of delivery scheduled for 3rd quarter 2018

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

2

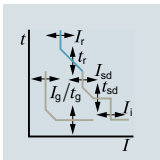


Conne- tion technology	Type	Rated current I_n	Current setting of the inverse- time delayed overload protection "L" I_r	S function (short-time delayed short-circuit protection "S") I_{sd}	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, medium breaking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

4-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A Electronic Trip Unit



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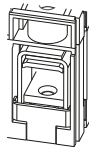


Line and generator protection, with display, ETU560 LSIG

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

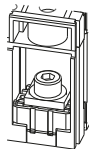
Connection with box terminal

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
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

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

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H H		SD	I_{cu} up to 110 kA at 415 V, very high breaking capacity C C		SD	I_{cu} up to 150 kA at 415 V, extremely high breaking capacity L L	
		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		

2

Line and generator protection, with display, ETU560 LSIG

With adjustable overload protection I_n , 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

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

2

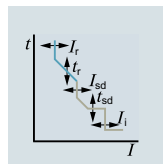


Conne- tion technology	Type	Rated current I_n	Current setting of the inverse- time delayed overload protection "L" I_r	S function (short-time delayed short-circuit protection "S") I_{sd}	Operating current of the instanta- neous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity 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	40	63	100	10 ... 25	16 ... 40	25 ... 63	40 ... 100	15 ... 250	24 ... 400	38 ... 630	60 ... 1000	38 ... 300	60 ... 480	95 ... 756	150 ... 1200	3VA2025-5KP46-0AA0	3VA2040-5KP46-0AA0	3VA2063-5KP46-0AA0	3VA2010-5KP46-0AA0			
3VA21	25	40	63	100	160	10 ... 25	16 ... 40	25 ... 63	40 ... 100	63 ... 160	15 ... 250	24 ... 400	38 ... 630	60 ... 480	95 ... 756	150 ... 1200	96 ... 1600	240 ... 1600	3VA2125-5KP46-0AA0	3VA2140-5KP46-0AA0	3VA2163-5KP46-0AA0	3VA2110-5KP46-0AA0	3VA2116-5KP46-0AA0

Connection with nut keeper kit

3VA20	25	40	63	100	10 ... 25	16 ... 40	25 ... 63	40 ... 100	15 ... 250	24 ... 400	38 ... 630	60 ... 1000	38 ... 300	60 ... 480	95 ... 756	150 ... 1200	3VA2025-5KP42-0AA0	3VA2040-5KP42-0AA0	3VA2063-5KP42-0AA0	3VA2010-5KP42-0AA0				
3VA21	25	40	63	100	160	10 ... 25	16 ... 40	25 ... 63	40 ... 100	63 ... 160	15 ... 250	24 ... 400	38 ... 630	60 ... 480	95 ... 756	150 ... 1200	96 ... 1600	240 ... 1600	3VA2125-5KP42-0AA0	3VA2140-5KP42-0AA0	3VA2163-5KP42-0AA0	3VA2110-5KP42-0AA0	3VA2116-5KP42-0AA0	
3VA22	160	250	375	500	630	1000	1600	2500	3750	5000	6300	8000	1200	1600	2500	3750	5000	6300	8000	12000	16000	25000	37500	50000
3VA23	250	400	630	1000	1600	2500	3750	5000	6300	8000	10000	12000	16000	25000	37500	50000	63000	80000	100000	120000	160000	250000	375000	500000
3VA24	400	500	630	800	1000	1200	1600	2500	3750	5000	6300	8000	10000	12000	16000	25000	37500	50000	63000	80000	100000	120000	160000	250000

¹⁾ At breaking capacity L 4400 A

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

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H H		SD	I_{cu} up to 110 kA at 415 V, very high breaking capacity C C		SD	I_{cu} up to 150 kA at 415 V, extremely high breaking capacity L L	
		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		

2

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

With adjustable overload protection I_n , 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

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

2

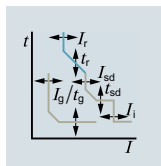


Conne- tion technology	Type	Rated current I_n	Current setting of the inverse- time delayed overload protection "L" I_r	S function (short-time delayed short-circuit protection "S") I_{sd}	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, medium breaking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

4-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A Electronic Trip Unit



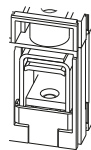
1201_18483



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

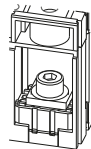
With adjustable overload protection I_r , adjustable delayed short-circuit protection I_{sd} and adjustable instantaneous short-circuit protection I_i , with neutral protection against overload and short circuit from 20%/40% to 100%/160% and adjustable ground-fault protection I_g

Connection with box terminal



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

Connection with nut keeper kit



3VA20	25	10 ... 25	15 ... 250	38 ... 300	3VA2025-5KQ42-0AA0 3VA2040-5KQ42-0AA0 3VA2063-5KQ42-0AA0 3VA2010-5KQ42-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	
	63	25 ... 63	38 ... 630	95 ... 756	
	100	40 ... 100	60 ... 1000	150 ... 1200	
3VA21	25	10 ... 25	15 ... 250	38 ... 300	3VA2125-5KQ42-0AA0 3VA2140-5KQ42-0AA0 3VA2163-5KQ42-0AA0 3VA2110-5KQ42-0AA0 3VA2116-5KQ42-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	
	63	25 ... 63	38 ... 630	95 ... 756	
	100	40 ... 100	60 ... 1000	150 ... 1200	
	160	63 ... 160	96 ... 1600	240 ... 1600	
3VA22	160	63 ... 160	96 ... 1600	240 ... 1920	3VA2216-5KQ42-0AA0 3VA2225-5KQ42-0AA0
3VA23	250	100 ... 250	150 ... 2500	375 ... 3000	3VA2325-5KQ42-0AA0 3VA2340-5KQ42-0AA0
	400	160 ... 400	240 ... 4000	600 ... 4000	
3VA24	400	160 ... 400	240 ... 4000	600 ... 6000 ¹⁾	3VA2440-5KQ42-0AA0 3VA2450-5KQ42-0AA0 3VA2463-5KQ42-0AA0
	500	200 ... 500	300 ... 5000	750 ... 7000	
	630	250 ... 630	378 ... 5670	945 ... 5670	
3VA25	630 ²⁾	250 ... 630	378 ... 6300	945 ... 7560	3VA2563-5KQ42-0AA0 3VA2580-5KQ42-0AA0 3VA2510-5KQ42-0AA0
	800	320 ... 800	480 ... 8000	1200 ... 8000	
	1000	400 ... 1000	600 ... 10000	1500 ... 10000	

¹⁾ At breaking capacity L 4400 A

²⁾ Start of delivery scheduled for 3rd quarter 2018

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

Rated current I_n	SD	I_{cu} up to 85 kA at 415 V, high breaking capacity H H		SD	I_{cu} up to 110 kA at 415 V, very high breaking capacity C C		SD	I_{cu} up to 150 kA at 415 V, extremely high breaking capacity L L	
		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		

2

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

With adjustable overload protection I_n , 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 ¹⁾	3VA2563-6KQ42-0AA0	3VA2563-7KQ42-0AA0	--
800	3VA2580-6KQ42-0AA0	3VA2580-7KQ42-0AA0	--
1000	3VA2510-6KQ42-0AA0	3VA2510-7KQ42-0AA0	--

¹⁾ Start of delivery scheduled for 3rd quarter 2018

Molded Case Circuit Breakers

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

Motor and starter protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2

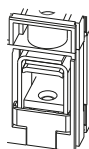
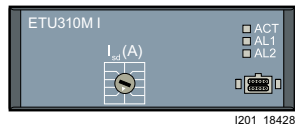


Conne- ction technology	Type	Rated current I_n	Current setting of the inverse- time delayed overload protection "L" I_r	S function (short-time delayed short-circuit protection "S") I_{sd}	Operating current of the instanta- neous short-circuit protection "I" I_i	SD
	A	A	A	A	A	d

I_{cu} up to 55 kA at 415 V, medium breaking capacity M M

Article No. www.siemens.com/product?Article No. Basic price per PU

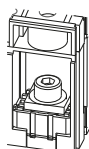
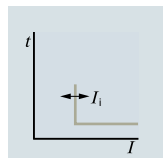
3-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A Electronic Trip Unit



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

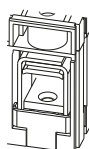
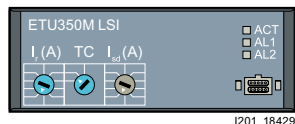
Connection with box terminal

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



Connection with nut keeper kit

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



Motor protection, ETU350M LSI

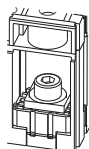
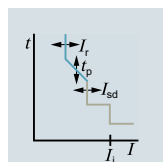
With adjustable overload protection I_r (delay adjustable via trip class T_C (10A, 10/10E, 20/20E), adjustable delayed short-circuit protection I_{sd} , and fixed instantaneous short-circuit protection I_i

$I_r \times \dots$

Connection with box terminal

3VA21	25	40	63	100	10 ... 25	16 ... 40	25 ... 63	40 ... 100	3 ... 15	375	600	945	1500

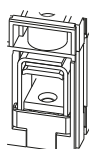
3VA2125-5MN36-0AA0
3VA2140-5MN36-0AA0
3VA2163-5MN36-0AA0
3VA2110-5MN36-0AA0



Connection with screw terminal

3VA21	25	40	63	100	10 ... 25	16 ... 40	25 ... 63	40 ... 100	3 ... 15	375	600	945	1500
3VA22	160	200	63 ... 160	80 ... 200	3 ... 15	3 ... 15	3 ... 15	3 ... 15	2400	3000			
3VA23	250	--	100 ... 250	--	3 ... 15	--	--	--	3750				
3VA24	400	500	160 ... 400	200 ... 500	3 ... 15	3 ... 15	3 ... 15	3 ... 15	6000	7500			

3VA2125-5MN32-0AA0
3VA2140-5MN32-0AA0
3VA2163-5MN32-0AA0
3VA2110-5MN32-0AA0
3VA2216-5MN32-0AA0
3VA2220-5MN32-0AA0
3VA2325-5MN32-0AA0
3VA2440-5MN32-0AA0
3VA2450-5MN32-0AA0



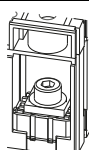
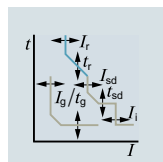
Motor protection, with display, with metering function, ETU860M LSIG

With adjustable overload protection I_r (delay adjustable 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 $7.2 \times I$ (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	40	63	100	10 ... 25	16 ... 40	25 ... 63	40 ... 100	38 ... 375	60 ... 600	95 ... 945	189 ... 945	150 ... 1500	75 ... 375	120 ... 600	189 ... 945	300 ... 1500

3VA2125-5MQ36-0AA0
3VA2140-5MQ36-0AA0
3VA2163-5MQ36-0AA0
3VA2110-5MQ36-0AA0



Connection with screw terminal

3VA21	25	40	63	100	10 ... 25	16 ... 40	25 ... 63	40 ... 100	30 ... 375	48 ... 600	76 ... 945	120 ... 1500	75 ... 375	120 ... 600	189 ... 945	300 ... 1500
3VA22	160	200	63 ... 160	80 ... 200	192 ... 2400	240 ... 3000	240 ... 3000	240 ... 3000	480 ... 2400	480 ... 2400	600 ... 3000	600 ... 3000	480 ... 2400	600 ... 3000		
3VA23	250	--	100 ... 250	--	300 ... 3750	750 ... 3750	750 ... 3750	750 ... 3750	750 ... 3750				750 ... 3750			
3VA24	400	500	160 ... 400	200 ... 500	480 ... 6000	600 ... 7500	600 ... 7500	600 ... 7500	1200 ... 6000	1200 ... 6000	1500 ... 7500	1500 ... 7500	1200 ... 6000	1500 ... 7500		

3VA2125-5MQ32-0AA0
3VA2140-5MQ32-0AA0
3VA2163-5MQ32-0AA0
3VA2110-5MQ32-0AA0
3VA2216-5MQ32-0AA0
3VA2220-5MQ32-0AA0
3VA2325-5MQ32-0AA0
3VA2440-5MQ32-0AA0
3VA2450-5MQ32-0AA0

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 See "Overview", p. 2/8 and 2/9	H	SD	I_{cu} up to 110 kA at 415 V, very high breaking capacity C See "Overview", p. 2/8 and 2/9	C
		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		

Starter protection, ETU310M IWith 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 LSIWith 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

Motor protection, with display, with metering function, ETU860M LSIgWith adjustable overload protection I_r (delay adjustable 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 $7.2 \times I$ (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

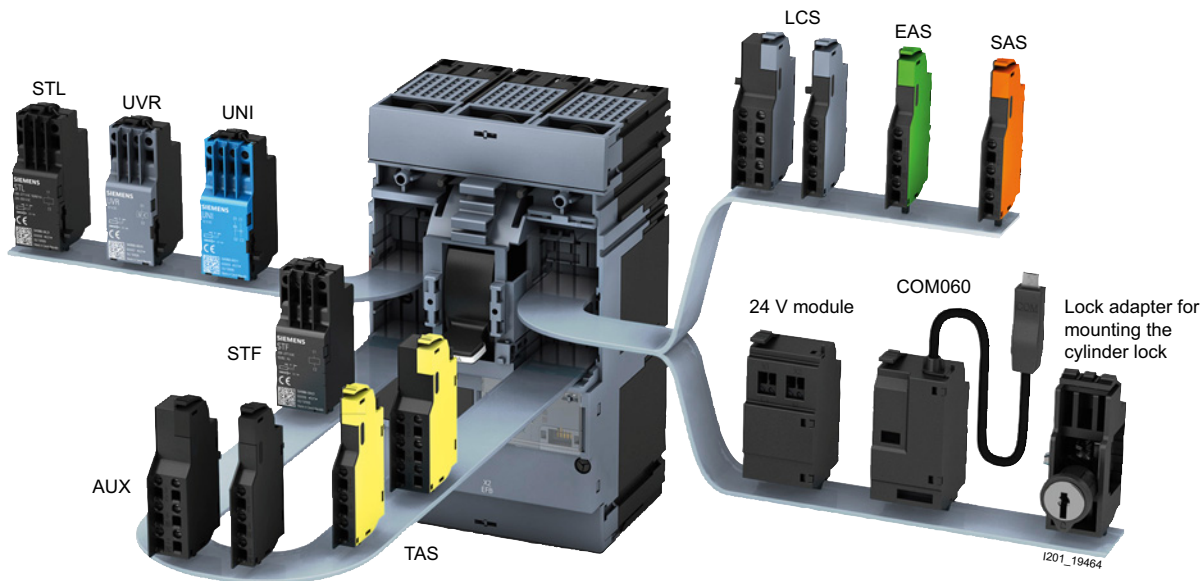
Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Internal accessories

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	<ul style="list-style-type: none"> • Shunt trip left STL • Shunt trip flexible STF
Gray	Leading changeover switch LCS	<ul style="list-style-type: none"> • Undervoltage release UVR
Yellow	Trip alarm switches TAS	--
Orange	Short circuit alarm switch SAS	--
Green	Electrical alarm switch EAS	--
Blue	--	Universal release UNI

Auxiliary switches

All auxiliary and alarm switches for the 3VA molded case circuit breakers and switch disconnectors belong to an integrated range of accessories. 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.

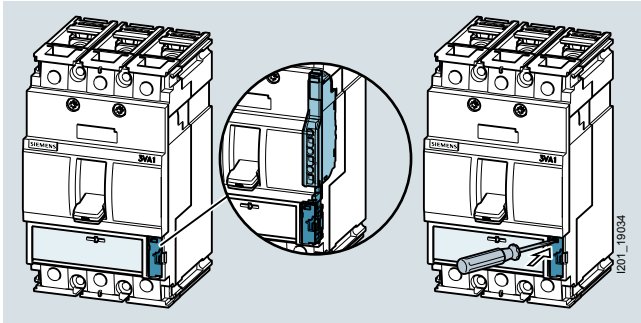
Undervoltage releases trip the 3VA molded case circuit breaker in the event that the rated voltage of a monitored circuit drops below a minimum permissible limit or fails altogether.

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.

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.

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.

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 mm². 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.

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

3VA molded-case circuit breaker ⓘ
▶ Language
✕

✔ The configuration is complete. You can order this product. ➤ Additional actions

Basic configuration
Release
Form type
Main conductor connection
Auxiliary release/auxiliary switch
Mountable accessories
Result
CAD/CAE
1.81

Assembly option

Self-assembly

When selecting factory installation by Siemens, an assembly surcharge will be added to the value of the built-in components. The standard delivery time for fitted 3VA switches is 10 working days. The best possible delivery times will only be offered on purchase of the components.

Auxiliary release

No auxiliary release

STL 24 V AC 50/60 Hz / 12-30

STL 110-127 V AC 50/60 Hz / DC

STL 208-277 V AC 50/60 Hz / 220-250 V DC

UVR 24 V DC

UVR 120-127 V AC 50/60 Hz

UVR 208-230 V AC 50/60 Hz

UNI 24 V DC

Slot assignment

Auxiliary switch/alarm switch

Without auxiliary/alarm switches

Type HP 2 AUX

Type HQ 2 AUX

Type HQ 3 AUX

Type HQ 4 AUX

Type HQ 1 AUX + 1 TAS

Type HP 1 AUX + 1 TAS

Type HQ 2 AUX + 1 TAS

Type HP 2 AUX + 1 TAS

Type HQ 1 AUX + 1 TAS + 1 EAS

Type HQ 2 AUX + 1 TAS + 1 EAS

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Internal accessories

Design

2

Internal accessories		3VA11 2-pole	3VA10 3 and 4-pole	3VA11 3 and 4-pole	3VA12 3 and 4-pole
Optional equipment		160 A			250 A
Slot No.:		23 22 21	23 22 21 11 12 13	23 22 21 11 12 13	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
Leading changeover switch	LCS_HQ				
	LCS_HQ_el				
	LCS_HP				
Alarm switch	Type				
Trip alarm switch	TAS_HQ	x x	x x x x 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	x x x x x x
	TAS_HP	x		x	x
Short circuit alarm switch	SAS_HQ				x
	SAS_HQ_el				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⁾				
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

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Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Internal accessories

2

Internal accessories Optional equipment		3VA13/14 3-pole										3VA13/14 4-pole														
		25	24	23	22	21	11	12	13	14	15	35	34	33	32	31	25	24	23	22	21	11	12	13	14	15
Slot No.:																										
Auxiliary switch																										
Type																										
Auxiliary switch	AUX_HQ	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	AUX_HQ_el	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	AUX_HP			x	x				x	x				x	x				x	x				x	x	
Leading changeover switch	LCS_HQ								x																	
	LCS_HQ_el								x																	
	LCS_HP								x																	
Alarm switch																										
Type																										
Trip alarm switch	TAS_HQ			x	x			x	x									x	x							
	TAS_HQ_el			x	x			x	x									x	x							
	TAS_HP			x				x										x								
Short circuit alarm switch	SAS_HQ																									x
	SAS_HQ_el																									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
Other																										
Cylinder lock (type Ronis)																										x

I201_19689

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Internal accessories

2

Internal accessories		Optional equipment		Slot No.:							
		3VA20/21/22 3-pole				3VA20/21/22 4-pole					
		24 23 22 21 11 12 13 14				34 33 32 31 24 23 22 21 11 12 13 14					
		250 A				250 A					
Auxiliary switch		Type									
Auxiliary switch		AUX_HQ		x x x x				x x x x			
		AUX_HQ_el		x x x x				x x x x			
		AUX_HP		x x				x x			
Leading changeover switch		LCS_HQ									
		LCS_HQ_el									
		LCS_HP									
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									
		EAS_HQ_el									
Auxiliary release		Type									
Shunt trip flexible		STF		x				x			
Shunt trip left		STL		x							
		STL (EI)		x							
Undervoltage release		UVR		x				x			
Universal release		UNI		x				x			
ETU/communication		Type									
Breaker data server communication module		COM060						x			
24 V module								x			
Other											
Cylinder lock (type Ronis)								x			

I201_18812

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Internal accessories

2

Internal accessories		3VA23/24 3-pole										3VA23/24 4-pole														
Optional equipment		3-pole										4-pole														
Slot No.:		25	24	23	22	21	11	12	13	14	15	35	34	33	32	31	25	24	23	22	21	11	12	13	14	15
Auxiliary switch	Type																									
	AUX_HQ	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	AUX_HQ_el	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Auxiliary switch	AUX_HP			x	x			x	x					x	x			x	x				x	x		
		x	x				x	x				x	x				x	x				x	x			
Leading changeover switch	LCS_HQ						x															x				
	LCS_HQ_el						x															x				
	LCS_HP							x															x			
Alarm switch	Type																									
	TAS_HQ			x	x		x	x									x	x		x	x					
	TAS_HQ_el			x	x		x	x									x	x		x	x					
Trip alarm switch	TAS_HP			x			x									x			x							
Electrical alarm switch	EAS_HQ																									x
	EAS_HQ_el																									x
Auxiliary release	Type																									
	Shunt trip flexible			x							x											x				x
Shunt trip left	STL			x																						
	STL (EI)			x																						
Undervoltage release	UVR			x																						
Universal release	UNI			x																						
ETU/communication	Type																									
	Breaker data server communication module										x															x
24 V module										x																x
Other																										
	Cylinder lock (type Ronis)										x															x

I201_18812

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Internal accessories

2

Internal accessories Optional equipment		3VA25 3-pole											3VA25 4-pole																			
		24	23	22	21	11	12	13	14	15	16	24	23	22	21	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		
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	
	EAS_HQ_el																														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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Internal accessories

Selection and ordering data





Version	SD	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 3VA9988-0AA12 3VA9988-0AA13	1	1 unit	1CB
	HQ/compact size/1 slot	--		1	1 unit	1CB
HQ_el/compact size/1 slot	✓	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 3VA9988-0AA22 3VA9988-0AA23	1	1 unit	1CB
	HQ/compact size/1 slot	--		1	1 unit	1CB
HQ_el/compact size/1 slot	✓	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 3VA9988-0AB12 3VA9988-0AB13	1	1 unit	1CB
	HQ/compact size/1 slot	--		1	1 unit	1CB
HQ_el/compact size/1 slot	✓	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		3VA9988-0AB32 3VA9988-0AB33	1	1 unit	1CB
	• HQ/compact size/1 slot • HQ_el/compact size/1 slot	-- ✓		1	1 unit	1CB
	For 3VA12, 3VA13 and 3VA14		3VA9988-0AB34 3VA9988-0AB35	1	1 unit	1CB
	• HQ/compact size/1 slot • HQ_el/compact size/1 slot	-- ✓		1	1 unit	1CB
 3VA9988-0AB22	Electrical alarm switch EAS (3VA2 only)					
	Type/switching capacity/size	Electronic-compatible				
	HQ/compact size/1 slot HQ_el/compact size/1 slot	-- ✓	3VA9988-0AB22 3VA9988-0AB23	1	1 unit	1CB
		1		1 unit	1CB	
Undervoltage releases						
 3VA9908-0BB15	Undervoltage release UVR					
	50/60 Hz V AC	V DC				
	--	12	3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB13	1	1 unit	1CB
	--	24		1	1 unit	1CB
	--	48		1	1 unit	1CB
	--	60		1	1 unit	1CB
	--	125 ... 127	3VA9908-0BB14 3VA9908-0BB15 3VA9908-0BB16	1	1 unit	1CB
	--	220 ... 230		1	1 unit	1CB
	--	250		1	1 unit	1CB
	--			1	1 unit	1CB
	24	--	3VA9908-0BB20 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23	1	1 unit	1CB
	48	--		1	1 unit	1CB
	60	--		1	1 unit	1CB
	110	--		1	1 unit	1CB
	120 ... 127	--	3VA9908-0BB24 3VA9908-0BB25 3VA9908-0BB26 3VA9908-0BB27	1	1 unit	1CB
208 ... 230	--	1		1 unit	1CB	
380 ... 400	--	1		1 unit	1CB	
440 ... 480	--	1		1 unit	1CB	

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Internal accessories

2

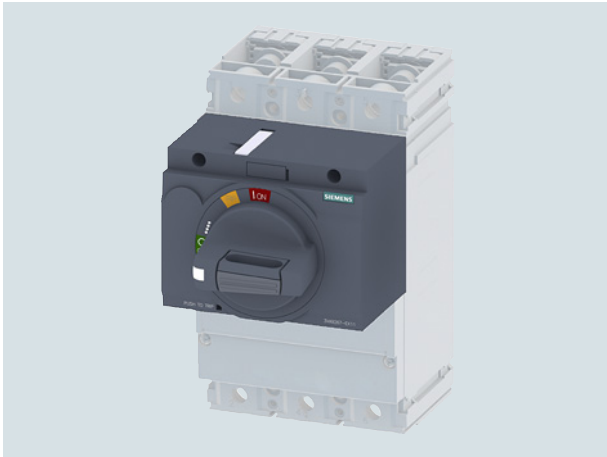
	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
Shunt trip left								
 3VA9988-0BL33	Shunt trip left STL							
	50/60 Hz V AC	V DC						
	--	12	3VA9988-0BL10		1	1 unit	1CB	
	24	24 ... 30	3VA9988-0BL30		1	1 unit	1CB	
	48 ... 60	48 ... 60	3VA9988-0BL31		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							
--	24	3VA9988-0BM10		1	1 unit	1CB		
Shunt trip flexible STF								
 3VA9988-0BA23	Shunt trip flexible							
	50/60 Hz V AC	V DC						
	24	--	3VA9988-0BA20		1	1 unit	1CB	
	48 ... 60	--	3VA9988-0BA21		1	1 unit	1CB	
	110 ... 127	--	3VA9988-0BA22		1	1 unit	1CB	
	208 ... 277	--	3VA9988-0BA23		1	1 unit	1CB	
	380 ... 500	--	3VA9988-0BA24		1	1 unit	1CB	
	600	--	3VA9988-0BA25		1	1 unit	1CB	
	Universal release UNI							
	 3VA9908-0BD13	Universal release						
50/60 Hz V AC		V DC						
--		12	3VA9908-0BD11		1	1 unit	1CB	
--		24	3VA9908-0BD12		1	1 unit	1CB	
--	48	3VA9908-0BD13		1	1 unit	1CB		
Time-delay device for undervoltage releases								
 3VA9988-0BF22	Time-delay device							
	V AC	V DC	Delay time					
	110	110	Fixed	3VA9988-0BF21		1	1 unit	1CB
	230	230	Fixed	3VA9988-0BF22		1	1 unit	1CB
	--	24	Fixed	3VA9988-0BF23		1	1 unit	1CB

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.

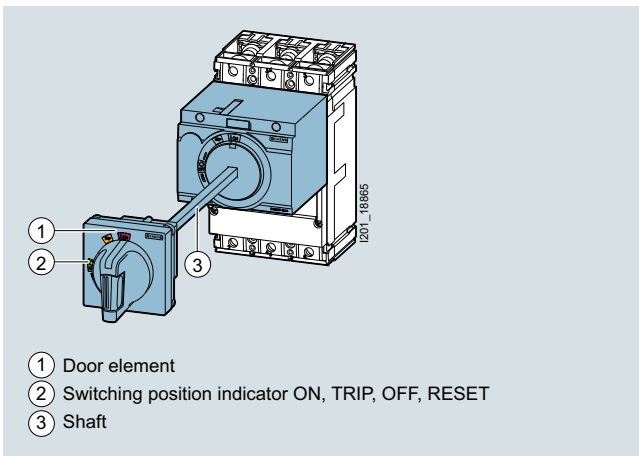
Front mounted rotary operator

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

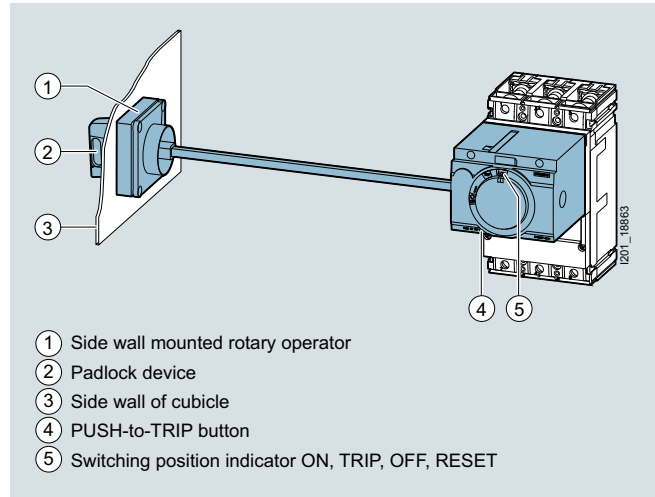
The door mounted rotary operator enables operation of the molded case circuit breaker from the cubicle door. The door element meets the requirements for degree of protection IP65 and features a door interlocking system and tolerance compensation. A variable depth adapter can be deployed to allow use 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 removed at any time. If the lock is used to create an interlock, the key can be removed only when it is in the OFF position, allowing the creation of an interlock by the use of a single key for several breakers.

Active illumination

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

Benefits



- Convenient circuit breaker operation inside and outside the cubicle
- Locking, 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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Manual operators

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	3VA25						
Front mounted rotary operators											
 3VA9267-0EK11	Front mounted rotary operators <ul style="list-style-type: none"> • Rotary operator • Handle • For IEC • Degree of protection IP30 										
	Type	Color									
• Standard, without illumination kit	Gray	✓	--	--	--	--	3VA9157-0EK11		1	1 unit	1CB
		--	✓	--	--	--	3VA9257-0EK11		1	1 unit	1CB
		--	--	✓	--	--	3VA9267-0EK11		1	1 unit	1CB
		--	--	--	✓	--	3VA9467-0EK11		1	1 unit	1CB
		--	--	--	--	✓ NEW	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
		--	--	--	--	✓ NEW	3VA9687-0EK13		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
		--	--	--	--	✓ NEW	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
		--	--	--	--	✓ NEW	3VA9687-0EK17		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
		--	--	--	--	✓ NEW	3VA9687-0EK23		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
		--	--	--	--	✓ NEW	3VA9687-0EK27		1	1 unit	1CB
 3VA9267-0GK00	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
		--	--	--	--	✓ NEW	3VA9687-0GK00		1	1 unit	1CB

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Manual operators

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	3VA25	d						
Door mounted rotary operators												
Door mounted rotary operator												
<ul style="list-style-type: none"> Rotary operator Shaft 300 mm (325 mm for 1000 A) Mounting tolerance compensation Handle with masking plate 75 x 75 mm Degree of protection IP65 												
 3VA9267-0FK21												
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	
		--	--	--	--	✓ NEW		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	
		--	--	--	--	✓ NEW		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	
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	
Shaft												
Versions												
• 8 mm	- 300 mm long	✓	✓	✓	✓	--		8UD1900-2WA00	1	1 unit	1CB	
	- 600 mm long	✓	✓	✓	✓	--		8UD1900-2WB00	1	1 unit	1CB	
• 12 mm NEW	- 325 mm long	--	--	--	--	✓		8UD1900-4WA00	1	1 unit	1CB	
	- 600 mm long	--	--	--	--	✓		8UD1900-4WB00	1	1 unit	1CB	
 8UD1900-2WB00												
 8UD1900-4WB00												

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Manual operators

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	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	3VA25						
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 NEW 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 NEW	--	--	--	--	✓		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 NEW	--	--	--	--	✓		8UD1900-4GA00		1	1 unit	1CL
Fixing bracket for shaft												
 3VA9487-0GA80		✓	✓	--	--	--		3VA9287-0GA80		1	1 unit	1CB
		--	--	✓	✓	--		3VA9487-0GA80		1	1 unit	1CB
Variable depth adapter												
 3VA9487-0GB10	8 x 8 mm							3VA9487-0GB10		1	1 unit	1CB

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Manual operators

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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						
Side wall mounted rotary operators										
 <p>Side wall mounted rotary operators</p> <ul style="list-style-type: none"> Without mounting plate <ul style="list-style-type: none"> Rotary operator with shaft 300 mm Handle with masking plate 75 x 75 mm Degree of protection IP65 										
 <p>3VA9267-0PK11</p>	• 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										
 <p>Side wall mounted rotary operators</p> <ul style="list-style-type: none"> With mounting plate <ul style="list-style-type: none"> Rotary operator with short shaft Handle with masking plate 75 x 75 mm Degree of protection IP65 										
 <p>3VA9267-0PK51</p>	• Standard	Gray	✓	--	--	--	3VA9157-0PK51	1	1 unit	1CB
			--	✓	--	--	3VA9257-0PK51	1	1 unit	1CB
			--	--	✓	--	3VA9267-0PK51	1	1 unit	1CB
			--	--	--	✓	3VA9467-0PK51	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
			--	--	--	✓	3VA9467-0PK53	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
			--	--	--	✓	3VA9467-0PK55	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
			--	--	--	✓	3VA9467-0PK57	1	1 unit	1CB
Extended DIN rail for N/PE terminal										
 <p>Extended DIN rail for N/PE terminal</p> <ul style="list-style-type: none"> For mounting plate Up to 250 A 										
						3VA9987-0GL30	1	1 unit	1CB	

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Manual operators

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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	3VA25							
Handles												
Handles • With masking plate												
 8UD1731-0AB11	Type	Color	Tolerance compensa- tion									
	• 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	--	--	--	--	✓ NEW	8UD1741-0AB11	1	1 unit	1CB
			With	--	--	--	--	✓ NEW	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	--	--	--	--	✓ NEW	8UD1741-0AB15	1	1 unit	1CB
			With	--	--	--	--	✓ NEW	8UD1741-0AB25	1	1 unit	1CB
	 Spare part: Toggle lever extension NEW	--	--	--	--	✓		3VA9987-0SC10	1	1 unit	1CB	

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Manual operators

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Version	SD	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			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 2	3VA9980-0VL20	1	1 unit 1CB
			Key 3	3VA9980-0VL30	1	1 unit 1CB
			Key 4	3VA9980-0VL40	1	1 unit 1CB
		Note The cylinder lock adapter for rotary operators is also needed for locking or interlocking circuit breakers via rotary operators.				
 3VA9980-0LF20		Cylinder lock adapter for rotary operators To mount the cylinder lock in the rotary operator (also possible with door mounted rotary operator and side wall mounted rotary operator)		3VA9980-0LF20	1	1 unit 1CB

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Motor operators

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

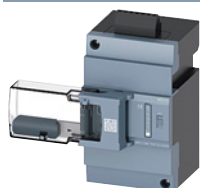
MO310 motor operator	3VA1
	160 A
Degree of protection	IP20, with cover frame IP30
Rated control supply voltage (operating range of control supply voltage)	42 V ... 60 V AC/ 24 V ... 60 V DC (0.85 ... 1.26) 110 V ... 230 V AC/ 110 V ... 250 V DC (0.85 ... 1.1)
Rating	250 W, max. 500 W (60 ms)
Make time, 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				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					

Motor operators



3VA9267-0HB10

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 feature (MO320)

Versions

• 24 ... 60 V DC	✓	--	--	--		3VA9157-0HA10		1	1 unit	1CB
	--	✓	--	--		3VA9257-0HA10		1	1 unit	1CB
	--	--	✓	--		3VA9267-0HA10		1	1 unit	1CB
	--	--	--	✓		3VA9467-0HA10		1	1 unit	1CB
• 110 ... 230 V AC, 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

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:

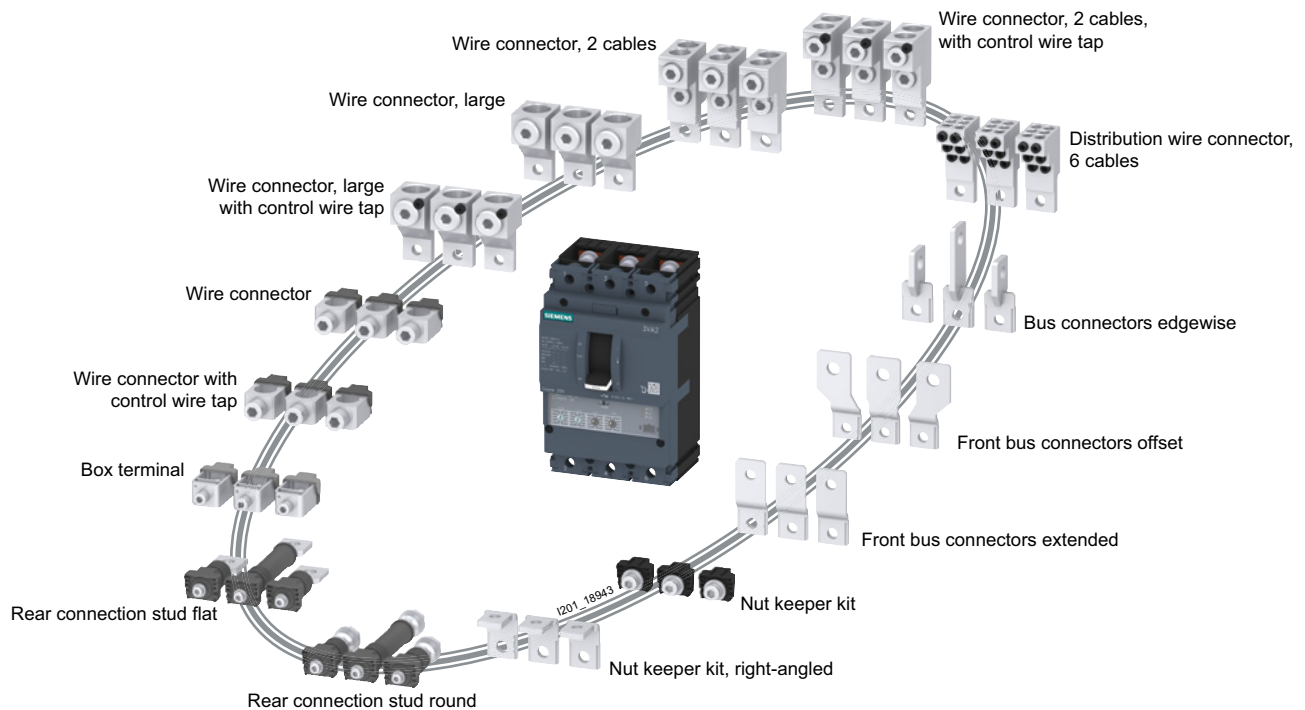
- Installation, e.g. connection to cables or busbars
- Dimensioning of the cables and busbars
- Installation medium, e.g. rigid or flexible

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 breaker 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.



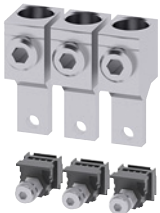


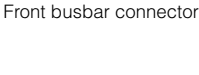


Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC



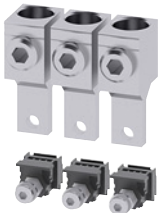


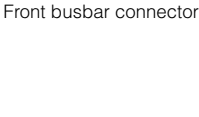
Connection technology

3VA1 conductor cross-sections

Connection technology	Cable medium	Cables and busbars	Dimensions	3VA1		
				3VA10 / 3VA11	3VA12	3VA13 / 3VA14
	Solid cable	Cu cable	mm ²	1.5 ... 16	6 ... 16	--
	Stranded cable	Cu cable	mm ²	1.5 ... 70	6 ... 120 50 ... 185	35 ... 300 ¹⁾
	Finely stranded cable	Cu cable	mm ²	1.5 ... 50	10 ... 95 95 ... 150	25 ... 240 ¹⁾
	Finely stranded with insulated end sleeve	Cu cable	mm ²	1.5 ... 50	6 ... 95 50 ... 150	25 ... 240 ¹⁾
	Flexible copper busbar	Flexible busbar	mm x mm	2x ..6x [13 x 0.5] ... 2x ..9x [9 x 0.8]	2x ..6x [13 x 0.5] ... 2x ..6x [15.5 x 0.8] ... 2x ..6x [20 x 1]	2x ..10x [20 x 1] ... 2x ..10x [24 x 1]
	Solid cable	Cu/Al cable	mm ²	2.5/4 ... 16	--	--
	Stranded cable	Cu/Al cable	mm ²	1.5/4 ... 95	35 ... 185	50 ... 300 ¹⁾
	Finely stranded cable	Cu cable	mm ²	1.5 ... 35	35 ... 150	50 ... 240 ¹⁾
	Finely stranded with insulated end sleeve	Cu cable	mm ²	1.5 ... 35	35 ... 150	50 ... 240 ¹⁾
	Solid cable			--	--	--
	Stranded cable	Cu/Al cable	mm ²	25 ... 150	50 ... 240	--
	Finely stranded cable	Cu cable	mm ²	25 ... 120	50 ... 185	--
	Finely stranded with insulated end sleeve	Cu cable	mm ²	25 ... 95	50 ... 185	--
	Solid cable			--	--	--
	Stranded cable	Cu/Al cable	mm ²	--	25 ... 150	70 ... 300
	Finely stranded cable	Cu cable	mm ²	--	25 ... 150	70 ... 240
	Finely stranded with insulated end sleeve	Cu cable	mm ²	--	25 ... 70	70 ... 185
	Solid cable	Cu/Al cable	mm ²	1.5/4 ... 16	1.5/4 ... 16	1.5/4 ... 16
	Stranded cable	Cu/Al cable	mm ²	1.5/4 ... 35	1.5/4 ... 35	1.5/4 ... 35
	Finely stranded cable	Cu cable	mm ²	1.5 ... 25	1.5 ... 25	1.5 ... 25
	Finely stranded with insulated end sleeve	Cu cable	mm ²	1.5 ... 25	1.5 ... 25	1.5 ... 25
	Direct (width x height)	Busbar	mm x mm	17 x 6.5	25 x 8	35 x 10
	Front bus connectors extended	Busbar	mm x mm	22 x 8	32 x 10	40 x 12.5
	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

3VA2 conductor cross-sections

Connection technology	Cable medium	Cables and busbars	Dimensions	3VA2		
				3VA20 / 3VA21 / 3VA22	3VA23 / 3VA24	3VA25
	Solid cable	Cu cable	mm ²	6 ... 16	--	--
	Stranded cable	Cu cable	mm ²	6 ... 120 25 ... 185	35 ... 300 ¹⁾	--
	Finely stranded cable	Cu cable	mm ²	10 ... 95 35 ... 150	25 ... 240 ¹⁾	--
	Finely stranded with insulated end sleeve	Cu cable	mm ²	6 ... 95 25 ... 150	25 ... 240 ¹⁾	--
	Flexible copper busbar	Flexible busbar	mm x mm	2x .6x [13 x 0.5] ... 2x .6x [15.5 x 0.8] ... 2x .6x [20 x 1]	2x ..10x [20 x 1] ... 2x ..10x [24 x 1]	--
	Solid cable	Cu/Al cable	mm ²	1.5/4 ... 16	--	--
	Stranded cable	Cu/Al cable	mm ²	1.5/4 ... 50 16 ... 185	50 ... 300 ¹⁾	--
	Finely stranded cable	Cu cable	mm ²	1.5 ... 35 25 ... 150	50 ... 240 ¹⁾	--
	Finely stranded with insulated end sleeve	Cu cable	mm ²	1.5 ... 35 16 ... 120	50 ... 240 ¹⁾	--
	Solid cable			--	--	--
	Stranded cable	Cu/Al cable	mm ²	50 ... 240	--	--
	Finely stranded cable	Cu cable	mm ²	50 ... 185	--	--
	Finely stranded with insulated end sleeve	Cu cable	mm ²	50 ... 185	--	--
	Solid cable			--	--	--
	Stranded cable	Cu/Al cable	mm ²	25 ... 150	70 ... 300	120 ... 185
	Finely stranded cable	Cu cable	mm ²	25 ... 150	70 ... 240	120 ... 185
	Finely stranded with insulated end sleeve	Cu cable	mm ²	25 ... 70	70 ... 185	120 ... 300
	Solid cable	Cu/Al cable	mm ²	1.5/4 ... 16	1.5/4 ... 16	--
	Stranded cable	Cu/Al cable	mm ²	1.5/4 ... 35	1.5/4 ... 35	--
	Finely stranded cable	Cu cable	mm ²	1.5 ... 25	1.5 ... 25	--
	Finely stranded with insulated end sleeve	Cu cable	mm ²	1.5 ... 25	1.5 ... 25	--
	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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

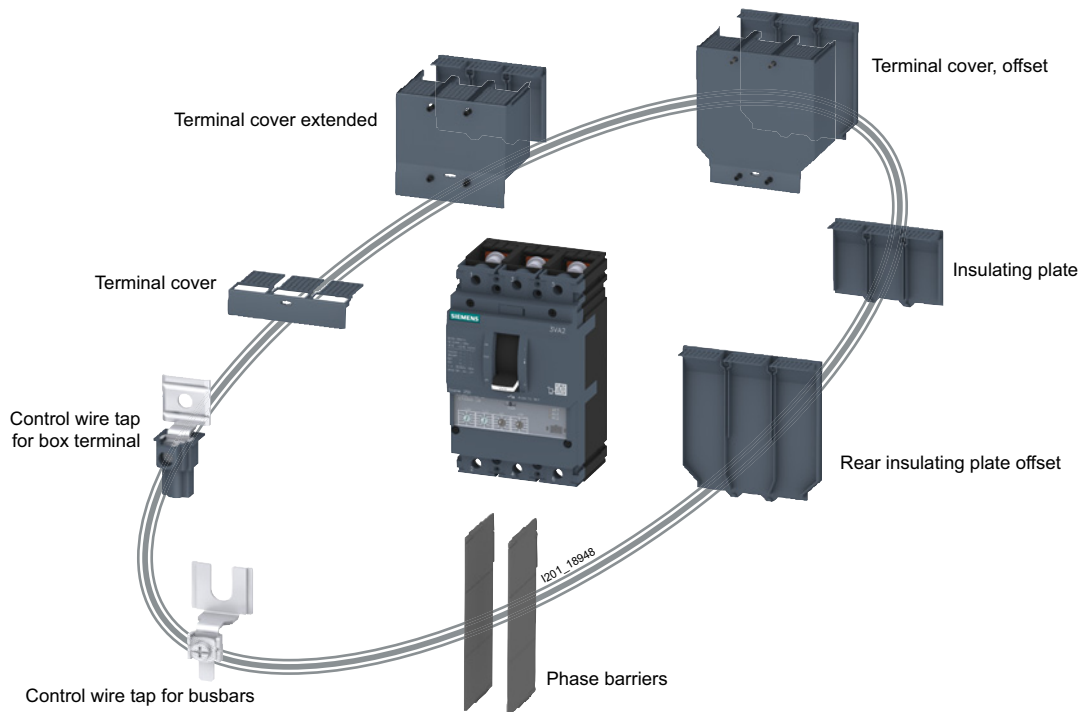
Connection technology

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.
- Broad 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 mm² can be connected.

Benefits







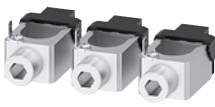
- High degree of flexibility
- Cables and busbars can be connected quickly and easily to the 3VA molded case circuit breaker
- Extensive selection of connection accessories

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

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

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	3VA25						
Box terminals – suitable for all installation types (fixed-mounted, plug-in and draw-out versions)													
 3VA9163-OJA12 Box terminal • Connection of Cu cable • Included in scope of supply: 3 single terminals	1.5 mm ²	70 mm ²	✓	--	--	--	--		3VA9153-OJA11		1	1 unit	1CB
	6 mm ²	120 mm ²	--	✓	--	--	--		3VA9253-OJA11		1	1 unit	1CB
	50 mm ²	185 mm ²	--	✓	--	--	--		3VA9253-OJA12		1	1 unit	1CB
	6 mm ²	120 mm ²	--	--	✓	--	--		3VA9163-OJA12		1	1 unit	1CB
	25 mm ²	185 mm ²	--	--	✓	--	--		3VA9263-OJA12		1	1 unit	1CB
	35 mm ²	300 mm ²	--	--	--	✓ ¹⁾	--		3VA9483-OJA13		1	1 unit	1CB
 3VA9164-OJA12 Box terminal • Connection of Cu cable • Included in scope of supply: 4 single terminals	1.5 mm ²	70 mm ²	✓	--	--	--	--		3VA9154-OJA11		1	1 unit	1CB
	6 mm ²	120 mm ²	--	✓	--	--	--		3VA9254-OJA11		1	1 unit	1CB
	50 mm ²	185 mm ²	--	✓	--	--	--		3VA9254-OJA12		1	1 unit	1CB
	6 mm ²	120 mm ²	--	--	✓	--	--		3VA9164-OJA12		1	1 unit	1CB
	25 mm ²	185 mm ²	--	--	✓	--	--		3VA9264-OJA12		1	1 unit	1CB
	35 mm ²	300 mm ²	--	--	--	✓ ¹⁾	--		3VA9484-OJA13		1	1 unit	1CB
Wire connectors suitable for all installation types (fixed-mounted, plug-in and draw-out versions)													
 3VA9103-OJB11 Wire connector • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals	1.5 mm ²	95 mm ²	✓	--	--	--	--		3VA9113-OJB11		1	1 unit	1CB
	35 mm ²	185 mm ²	--	✓	--	--	--		3VA9253-OJB12		1	1 unit	1CB
	1.5 mm ²	50 mm ²	--	--	✓	--	--		3VA9103-OJB11		1	1 unit	1CB
	16 mm ²	185 mm ²	--	--	✓	--	--		3VA9263-OJB12		1	1 unit	1CB
	50 mm ²	300 mm ²	--	--	--	✓ ¹⁾	--		3VA9383-OJB13		1	1 unit	1CB
 3VA9503-OJB23 Wire connector, 2 cables • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals and 1 terminal cover, short	120 mm ²	300 mm ²	--	--	--	--	✓ NEW		3VA9503-OJB23		1	1 unit	1CB
 3VA9104-OJB11 Wire connector • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals	1.5 mm ²	95 mm ²	✓	--	--	--	--		3VA9114-OJB11		1	1 unit	1CB
	35 mm ²	185 mm ²	--	✓	--	--	--		3VA9254-OJB12		1	1 unit	1CB
	1.5 mm ²	50 mm ²	--	--	✓	--	--		3VA9104-OJB11		1	1 unit	1CB
	16 mm ²	185 mm ²	--	--	✓	--	--		3VA9264-OJB12		1	1 unit	1CB
	50 mm ²	300 mm ²	--	--	--	✓ ¹⁾	--		3VA9384-OJB13		1	1 unit	1CB
 3VA9504-OJB23 Wire connector, 2 cables • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals and 1 terminal cover, short	120 mm ²	300 mm ²	--	--	--	--	✓ NEW		3VA9504-OJB23		1	1 unit	1CB
 3VA9103-OJG11 Wire connector with control wire tap • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals	16 mm ²	95 mm ²	✓	--	--	--	--		3VA9113-OJG11		1	1 unit	1CB
	35 mm ²	185 mm ²	--	✓	--	--	--		3VA9253-OJG12		1	1 unit	1CB
	1.5 mm ²	50 mm ²	--	--	✓	--	--		3VA9103-OJG11		1	1 unit	1CB
	16 mm ²	185 mm ²	--	--	✓	--	--		3VA9263-OJG12		1	1 unit	1CB
	50 mm ²	300 mm ²	--	--	--	✓ ¹⁾	--		3VA9383-OJG13		1	1 unit	1CB

¹⁾ Only approved up to rated current 400 A





Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – 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	3VA25						
 3VA9503-0JG23	120 mm ²	300 mm ²	--	--	--	--	✓ NEW				1	1 unit	1CB
 3VA9104-0JG11	16 mm ²	95 mm ²	✓	--	--	--	--				1	1 unit	1CB
	35 mm ²	185 mm ²	--	✓	--	--	--				1	1 unit	1CB
	1.5 mm ²	50 mm ²	--	--	✓	--	--				1	1 unit	1CB
	16 mm ²	185 mm ²	--	--	✓	--	--				1	1 unit	1CB
 3VA9504-0JG23	50 mm ²	300 mm ²	--	--	--	✓ ¹⁾	--				1	1 unit	1CB
	120 mm ²	300 mm ²	--	--	--	--	✓ NEW				1	1 unit	1CB




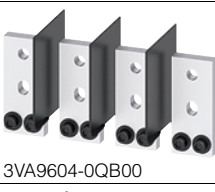

¹⁾ Only approved up to rated current 400 A

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	3VA25						
Nut keeper kits suitable for all installation types (fixed-mounted, plug-in and draw-out versions)													
 3VA9203-0QA00	17 mm	6.5 mm	✓	--	--	--	--				1	1 unit	1CB
	25 mm	8 mm	--	✓	--	--	--				1	1 unit	1CB
	25 mm	8 mm	--	--	✓	--	--				1	1 unit	1CB
	35 mm	10 mm	--	--	--	✓	--				1	1 unit	1CB
 3VA9603-0QA00	50 mm	28 mm	--	--	--	--	✓ NEW				1	1 unit	1CB
 3VA9204-0QA00	17 mm	6.5 mm	✓	--	--	--	--				1	1 unit	1CB
	25 mm	8 mm	--	✓	--	--	--				1	1 unit	1CB
	25 mm	8 mm	--	--	✓	--	--				1	1 unit	1CB
	35 mm	10 mm	--	--	--	✓	--				1	1 unit	1CB
 3VA9604-0QA00	50 mm	28 mm	--	--	--	--	✓ NEW				1	1 unit	1CB

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – 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	3VA25						
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	--	--	--	--	✓ NEW	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	--	--	--	--	✓ NEW	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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – 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						
 <p>Front bus connectors offset Included in scope of supply: • 4 single terminals • 3 phase barriers Distance between pole centers: 100/160 A = 35 mm 250 A = 45 mm 400/630 A = 70 mm</p> <p>3VA9264-0QC00</p>	30 mm	8 mm	✓	--	--	--	3VA9154-0QC00		1	1 unit	1CB	
	35 mm	10 mm	--	✓	--	--	3VA9254-0QC00		1	1 unit	1CB	
	35 mm	10 mm	--	--	✓	--	3VA9264-0QC00		1	1 unit	1CB	
	60 mm	12.5 mm	--	--	--	✓	3VA9484-0QC00		1	1 unit	1CB	
 <p>Bus connectors edgewise Included in scope of supply: • 3 single terminals • 2 phase barriers</p> <p>3VA9263-0QD00</p>	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	
 <p>Bus connectors edgewise Included in scope of supply: • 4 single terminals • 3 phase barriers</p> <p>3VA9264-0QD00</p>	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	
 <p>Nut keeper kit right-angled¹⁾ Included in scope of supply: • 3 single terminals • 2 phase barriers</p> <p>3VA9223-0QG00</p>	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	
 <p>Nut keeper kit right-angled¹⁾ Included in scope of supply: • 4 single terminals • 3 phase barriers</p> <p>3VA9224-0QG00</p>	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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

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

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 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


Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Connection technology – specially for fixed mounting

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	3VA25						
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	
	--	--	--	--	✓	NEW	3VA9602-0WA00	1	1 unit	1CB	

Version	Max. tap width	Max. tap thick- ness	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	3VA25						
Bus connectors extended specially for fixed mounting													
 3VA9151-0QB00	Front bus connectors extended Included in scope of supply: • 1 busbar connection piece		32 mm	10 mm	✓	--	--	--	3VA9151-0QB00	1	1 unit	1CB	

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC








Connection technology – specially for fixed mounting

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 mm ²	150 mm ²	✓	--	--	--	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 mm ²	150 mm ²	✓	--	--	--	3VA9113-0JJ12		1	1 unit	1CB
		50 mm ²	240 mm ²	--	✓	--	--	3VA9213-0JJ13		1	1 unit	1CB
		50 mm ²	240 mm ²	--	--	✓	--	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 mm ²	150 mm ²	✓	--	--	--	3VA9114-0JJ12		1	1 unit	1CB
		50 mm ²	240 mm ²	--	✓	--	--	3VA9214-0JJ13		1	1 unit	1CB
		50 mm ²	240 mm ²	--	--	✓	--	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 mm ²	150 mm ²	✓	--	--	--	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 mm ²	150 mm ²	✓	--	--	--	3VA9113-0JC12		1	1 unit	1CB
		50 mm ²	240 mm ²	--	✓	--	--	3VA9213-0JC13		1	1 unit	1CB
		50 mm ²	240 mm ²	--	--	✓	--	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 mm ²	150 mm ²	✓	--	--	--	3VA9114-0JC12		1	1 unit	1CB
		50 mm ²	240 mm ²	--	✓	--	--	3VA9214-0JC13		1	1 unit	1CB
		50 mm ²	240 mm ²	--	--	✓	--	3VA9224-0JC13		1	1 unit	1CB

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC


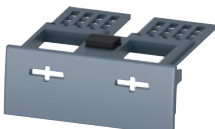
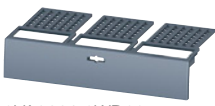
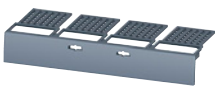




Connection technology – specially for fixed mounting

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									
 <p>Wire connector, 2 cables</p> <ul style="list-style-type: none"> • Connection of Cu/Al cable • Included in scope of supply: <ul style="list-style-type: none"> - 3 single terminals - 1 terminal cover extended - 1 insulating plate 	2 x 25 mm ²	2 x 150 mm ²	--	✓	--	--	3VA9213-0JJ22		1	1 unit	1CB				
	2 x 25 mm ²	2 x 150 mm ²	--	--	✓	--						3VA9223-0JJ22	1	1 unit	1CB
	2 x 70 mm ²	2 x 300 mm ²	--	--	--	✓						3VA9403-0JJ23	1	1 unit	1CB
 <p>Wire connector, 2 cables</p> <ul style="list-style-type: none"> • Connection of Cu/Al cable • Included in scope of supply: <ul style="list-style-type: none"> - 4 single terminals - 1 terminal cover extended - 1 insulating plate 	2 x 25 mm ²	2 x 150 mm ²	--	✓	--	--	3VA9214-0JJ22		1	1 unit	1CB				
	2 x 25 mm ²	2 x 150 mm ²	--	--	✓	--						3VA9224-0JJ22	1	1 unit	1CB
	2 x 70 mm ²	2 x 300 mm ²	--	--	--	✓						3VA9404-0JJ23	1	1 unit	1CB
 <p>Wire connector, 2 cables, with control wire tap</p> <ul style="list-style-type: none"> • Connection of Cu/Al cable • Included in scope of supply: <ul style="list-style-type: none"> - 3 single terminals - 1 terminal cover extended - 1 insulating plate 	2 x 25 mm ²	2 x 150 mm ²	--	✓	--	--	3VA9213-0JC22		1	1 unit	1CB				
	2 x 25 mm ²	2 x 150 mm ²	--	--	✓	--						3VA9223-0JC22	1	1 unit	1CB
	2 x 70 mm ²	2 x 300 mm ²	--	--	--	✓						3VA9403-0JC23	1	1 unit	1CB
 <p>Wire connector, 2 cables, with control wire tap</p> <ul style="list-style-type: none"> • Connection of Cu/Al cable • Included in scope of supply: <ul style="list-style-type: none"> - 4 single terminals - 1 terminal cover extended - 1 insulating plate 	2 x 25 mm ²	2 x 150 mm ²	--	✓	--	--	3VA9214-0JC22		1	1 unit	1CB				
	2 x 25 mm ²	2 x 150 mm ²	--	--	✓	--						3VA9224-0JC22	1	1 unit	1CB
	2 x 70 mm ²	2 x 300 mm ²	--	--	--	✓						3VA9404-0JC23	1	1 unit	1CB
 <p>Distribution wire connector, 6 cables</p> <ul style="list-style-type: none"> • Connection of Cu/Al cable • Included in scope of supply: <ul style="list-style-type: none"> - 2 single terminals - 1 terminal cover extended - 1 insulating plate 	6 x 1.5 mm ²	6 x 35 mm ²	✓	--	--	--	3VA9112-0JF60		1	1 unit	1CB				
 <p>Distribution wire connector, 6 cables</p> <ul style="list-style-type: none"> • Connection of Cu/Al cable • Included in scope of supply: <ul style="list-style-type: none"> - 3 single terminals - 1 terminal cover extended - 1 insulating plate 	6 x 1.5 mm ²	6 x 35 mm ²	✓	--	--	--	3VA9113-0JF60		1	1 unit	1CB				
	6 x 1.5 mm ²	6 x 35 mm ²	--	✓	--	--	3VA9213-0JF60		1	1 unit	1CB				
	6 x 1.5 mm ²	6 x 35 mm ²	--	--	✓	--	3VA9223-0JF60		1	1 unit	1CB				
	6 x 1.5 mm ²	6 x 35 mm ²	--	--	--	✓	3VA9303-0JF60		1	1 unit	1CB				
 <p>Distribution wire connector, 6 cables</p> <ul style="list-style-type: none"> • Connection of Cu/Al cable • Included in scope of supply: <ul style="list-style-type: none"> - 4 single terminals - 1 terminal cover extended - 1 insulating plate 	6 x 1.5 mm ²	6 x 35 mm ²	✓	--	--	--	3VA9114-0JF60		1	1 unit	1CB				
	6 x 1.5 mm ²	6 x 35 mm ²	--	✓	--	--	3VA9214-0JF60		1	1 unit	1CB				
	6 x 1.5 mm ²	6 x 35 mm ²	--	--	✓	--	3VA9224-0JF60		1	1 unit	1CB				
	6 x 1.5 mm ²	6 x 35 mm ²	--	--	--	✓	3VA9304-0JF60		1	1 unit	1CB				

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

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
		--	--	--	✓	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
		--	--	--	✓	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
		--	--	--	✓	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
		--	--	--	✓	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
		--	--	--	✓	3VA9401-0WG30		1	1 unit	1CB

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Connection technology – specially for fixed mounting





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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						
 <p>Terminal cover offset for 4-pole breakers including insulating plate</p>	✓	--	--	--		3VA9111-0WG40	1	1 unit	1CB	
	--	✓	--	--		3VA9211-0WG40	1	1 unit	1CB	
	--	--	✓	--		3VA9221-0WG40	1	1 unit	1CB	
	--	--	--	✓		3VA9401-0WG40	1	1 unit	1CB	
3VA9221-0WG40	Insulating plates specially for fixed mounting									
 <p>Insulating plate, 2-pole</p>	✓	--	--	--		3VA9111-0WJ20	1	1 unit	1CB	
	✓	--	--	--		3VA9111-0WJ30	1	1 unit	1CB	
	--	✓	--	--		3VA9211-0WJ30	1	1 unit	1CB	
	--	--	✓	--		3VA9221-0WJ30	1	1 unit	1CB	
3VA9221-0WJ30	 <p>Insulating plate, 3-pole</p>	✓	--	--	--		3VA9111-0WJ40	1	1 unit	1CB
--		✓	--	--		3VA9211-0WJ40	1	1 unit	1CB	
--		--	✓	--		3VA9221-0WJ40	1	1 unit	1CB	
--		--	--	✓		3VA9481-0WJ40	1	1 unit	1CB	
3VA9221-0WJ40	 <p>Insulating plate, 4-pole</p>	✓	--	--	--		3VA9111-0WK30	1	1 unit	1CB
--		✓	--	--		3VA9211-0WK30	1	1 unit	1CB	
--		--	✓	--		3VA9221-0WK30	1	1 unit	1CB	
--		--	--	✓		3VA9481-0WK30	1	1 unit	1CB	
3VA9221-0WK30	 <p>Insulating plate offset, 3-pole</p>	✓	--	--	--		3VA9111-0WK40	1	1 unit	1CB
--		✓	--	--		3VA9211-0WK40	1	1 unit	1CB	
--		--	✓	--		3VA9221-0WK40	1	1 unit	1CB	
--		--	--	✓		3VA9481-0WK40	1	1 unit	1CB	
3VA9221-0WK40	 <p>Insulating plate offset, 4-pole</p>	✓	--	--	--		3VA9111-0WK40	1	1 unit	1CB
--		✓	--	--		3VA9211-0WK40	1	1 unit	1CB	
--		--	✓	--		3VA9221-0WK40	1	1 unit	1CB	
--		--	--	✓		3VA9481-0WK40	1	1 unit	1CB	

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Connection technology – specially for fixed mounting


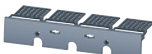




Version	For molded case circuit breakers/Article No. stem				SD	Article No. www.siemens.com/product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24 d						
Control wire taps specially for fixed mounting										
 3VA9200-0WB00	Control wire 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
- 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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

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

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
	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)										
<ul style="list-style-type: none"> To provide circuit breaker touch protection For mounting on the molded case circuit breaker 										
Versions										
 3VA9123-0KB01	<ul style="list-style-type: none"> 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
 3VA9124-0KB01	<ul style="list-style-type: none"> 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
Terminal cover for plug-in or draw-out socket										
<ul style="list-style-type: none"> 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										
 3VA9153-0KB03	<ul style="list-style-type: none"> 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
 3VA9154-0KB03	<ul style="list-style-type: none"> 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
Terminal cover, extended, for plug-in or draw-out socket										
<ul style="list-style-type: none"> 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										
 3VA9153-0KB04	<ul style="list-style-type: none"> 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
 3VA9154-0KB04	<ul style="list-style-type: none"> 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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

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

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
	3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24						
Terminal cover, offset, for plug-in or draw-out socket <ul style="list-style-type: none"> 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 										
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
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



3VA9153-0KB05



3VA9154-0KB05







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
			3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24						
Wire connectors specially for plug-in and draw-out units												
Wire connector, large, with control wire tap												
 3VA9153-0JC12	25 mm ²	150 mm ²	✓	--	--	--		3VA9153-0JC12		1	1 unit	1CB
	50 mm ²	240 mm ²	--	✓	--	--		3VA9253-0JC13		1	1 unit	1CB
	50 mm ²	240 mm ²	--	--	✓	--		3VA9263-0JC13		1	1 unit	1CB
Wire connector, large, with control wire tap												
 3VA9154-0JC12	25 mm ²	150 mm ²	✓	--	--	--		3VA9154-0JC12		1	1 unit	1CB
	50 mm ²	240 mm ²	--	✓	--	--		3VA9254-0JC13		1	1 unit	1CB
	50 mm ²	240 mm ²	--	--	✓	--		3VA9264-0JC13		1	1 unit	1CB

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

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

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
				3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24						
 <p>Wire connector, 2 cables, with control wire tap Included in scope of supply:</p> <ul style="list-style-type: none"> • 3 single terminals • 1 terminal cover extended • 1 insulating plate 		2 x 25 mm ²	2 x 150 mm ²	--	✓	--	--		3VA9253-0JC22		1	1 unit	1CB
		2 x 25 mm ²	2 x 150 mm ²	--	--	✓	--		3VA9263-0JC22		1	1 unit	1CB
		2 x 70 mm ²	2 x 300 mm ²	--	--	--	✓		3VA9483-0JC23		1	1 unit	1CB
 <p>Wire connector, 2 cables, with control wire tap Included in scope of supply:</p> <ul style="list-style-type: none"> • 4 single terminals • 1 terminal cover extended • 1 insulating plate 		2 x 25 mm ²	2 x 150 mm ²	--	✓	--	--		3VA9254-0JC22		1	1 unit	1CB
		2 x 25 mm ²	2 x 150 mm ²	--	--	✓	--		3VA9264-0JC22		1	1 unit	1CB
		2 x 70 mm ²	2 x 300 mm ²	--	--	--	✓		3VA9484-0JC23		1	1 unit	1CB
 <p>Distribution wire connector, 6 cables Included in scope of supply:</p> <ul style="list-style-type: none"> • 3 single terminals • 1 terminal cover extended • 1 insulating plate 		6 x 1.5 mm ²	6 x 35 mm ²	✓	--	--	--		3VA9153-0JF60		1	1 unit	1CB
		6 x 1.5 mm ²	6 x 35 mm ²	--	✓	--	--		3VA9253-0JF60		1	1 unit	1CB
		6 x 1.5 mm ²	6 x 35 mm ²	--	--	✓	--		3VA9263-0JF60		1	1 unit	1CB
		6 x 1.5 mm ²	6 x 35 mm ²	--	--	--	✓		3VA9383-0JF60		1	1 unit	1CB
 <p>Distribution wire connector, 6 cables Included in scope of supply:</p> <ul style="list-style-type: none"> • 4 single terminals • 1 terminal cover extended • 1 insulating plate 		6 x 1.5 mm ²	6 x 35 mm ²	✓	--	--	--		3VA9154-0JF60		1	1 unit	1CB
		6 x 1.5 mm ²	6 x 35 mm ²	--	✓	--	--		3VA9254-0JF60		1	1 unit	1CB
		6 x 1.5 mm ²	6 x 35 mm ²	--	--	✓	--		3VA9264-0JF60		1	1 unit	1CB
		6 x 1.5 mm ²	6 x 35 mm ²	--	--	--	✓		3VA9384-0JF60		1	1 unit	1CB
Control wire taps specially for plug-in and draw-out units													
 <p>Control wire tap for box terminal</p>				✓	--	--	--		3VA9150-0WB00		1	10 units	1CB
				--	✓	✓	--		3VA9280-0WB00		1	10 units	1CB
				--	--	--	✓		3VA9480-0WB00		1	10 units	1CB
 <p>Control wire tap for busbar</p>				✓	--	--	--		3VA9150-0WC00		1	10 units	1CB
				--	✓	✓	--		3VA9280-0WC00		1	10 units	1CB
				--	--	--	✓		3VA9480-0WC00		1	10 units	1CB

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.

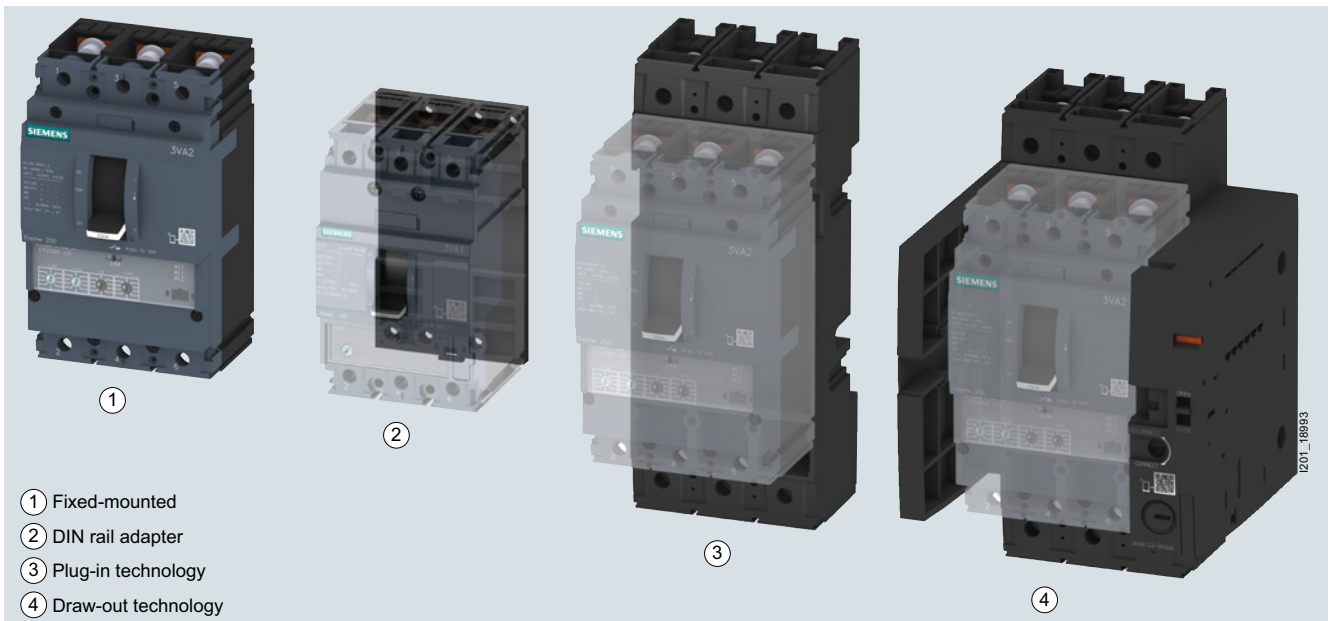
The main differences between plug-in units and draw-out units are convenience of operation and the potential for functional expansion.

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.

Installation variants

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

**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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Plug-in and draw-out technology

Selection and ordering data


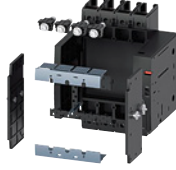
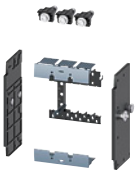
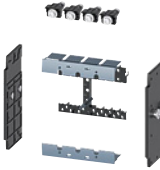
Version	For molded case circuit breakers/ Article No. stem				SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG			
	3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24									
Plug-in socket													
Plug-in unit, complete kit Comprising: • Plug-in socket • 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			

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Plug-in and draw-out technology

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
	3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24						
Draw-out units										
Draw-out unit, complete kit										
Comprising:										
<ul style="list-style-type: none"> • 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:										
<ul style="list-style-type: none"> • 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

Molded Case Circuit Breakers

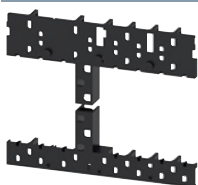
3VA Molded Case Circuit Breakers – Accessories, IEC

Plug-in and draw-out technology

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
	3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24						

Cable cage



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

3VA9167-0KB02

Door feedthrough



Door feedthrough

--	✓	--	--		3VA9257-0KT00		1	1 unit	1CB
--	--	✓	--		3VA9167-0KT00		1	1 unit	1CB
--	--	--	✓		3VA9367-0KT00		1	1 unit	1CB

3VA9167-0KT00

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						

Spare part: Autotrip plunger **NEW**



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
--	✓	--	--		3VA9257-0KD81		1	1 unit	1CB
--	--	✓	--		3VA9267-0KD81		1	1 unit	1CB
--	--	--	✓		3VA9457-0KD81		1	1 unit	1CB








3VA9457-0KP81

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Plug-in and draw-out technology

2

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Other accessories						
 3VA9987-0KC00		3VA9987-0KC00		1	1 unit	1CB
Communication link for draw-out unit Comprising: <ul style="list-style-type: none"> • Cable kit with 3 special position signaling switches • Connecting cable 3VA9987-0KC10 						
 3VA9987-0KB00		3VA9987-0KB00		1	1 unit	1CB
Position signaling switches <ul style="list-style-type: none"> • For draw-out unit • For plug-in unit 						
 3VA9987-0KC10		3VA9987-0KC10		1	1 unit	1CB
Spare part: connecting cable To connect the position signaling switches for communication with the COM060						
 3VA9987-0KD81		3VA9987-0KD81		1	1 unit	1CB
Crank handle for draw-out unit Insulated, incl. crank holder						
 3VA9987-0KD80	Auxiliary circuit connector Versions					
	<ul style="list-style-type: none"> • For all draw-out units 	3VA9987-0KD80		1	1 unit	1CB
	<ul style="list-style-type: none"> • For all plug-in units 	3VA9987-0KP80		1	1 unit	1CB
Note Each auxiliary circuit connector is designed for 4 cables.						
Cylinder lock (type Ronis)						
 3VA9980-0VL10	<ul style="list-style-type: none"> • 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 (lock number 1)	3VA9980-0VL10	1	1 unit	1CB
		Key 2 (lock number 2)	3VA9980-0VL20	1	1 unit	1CB
		Key 3 (lock number 3)	3VA9980-0VL30	1	1 unit	1CB
		Key 4 (lock number 4)	3VA9980-0VL40	1	1 unit	1CB
Not for 3VA25!						
 3VA9980-0LF40		3VA9980-0LF40		1	1 unit	1CB
Cylinder lock adapter for draw-out unit <ul style="list-style-type: none"> • 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 						

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Residual current devices

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 up to the largest circuit breaker size. All residual current devices detect both purely sinusoidal AC residual currents as well as pulsating DC residual currents (type A), and the combination of molded case circuit breakers or switch disconnectors with mounted residual current devices complies with IEC 60947-2 Annex B, while the combination with modular residual current devices complies with IEC 60947-2 Annex M.



"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

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

RCD310 and RCD510

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

RCD320 and RCD520

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

"Advanced" type residual current devices for 3VA2

RCD820

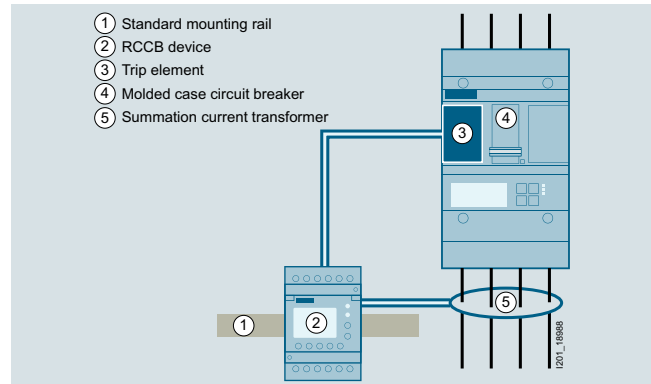
"Advanced" residual current devices can detect fault type A currents up to 10 A and type AC up to 30 A. Status message can be forwarded via the large number of auxiliary contacts on the unit or via the communication connection. LEDs for signaling the "ready" state of the residual current device, the 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, an external solution is also available. The modular solution consists of a residual current protection device, a separate summation current transformer and a trip element.

If the trip element is omitted, the combination of residual current device and summation current transformer works purely as a display unit.

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



Modular residual current device

Benefits

RCD310 and RCD510

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

RCD320 and RCD520

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

RCD820

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

Modular residual current device








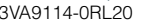
- Modular design allows mounting on different breaker designs (e.g. 1, 2, 3 and 4-pole breakers)
- Reuse in the event of a change of application ensures cost savings
- Time savings thanks to simple upgrading of the residual current functionality in an existing plant
- Especially suitable for use where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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Residual current devices

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
	3VA11	3VA12						
Residual current devices (RCD) for 3VA1								
<p>Type A (pulse current sensitive)</p> <ul style="list-style-type: none"> Mounted on the side (left) Trip element (RCR) included in the scope of delivery Can only be mounted on molded case circuit breakers and switch disconnectors with box terminal $U_e = 127 - 480 \text{ V AC}, 50/60 \text{ Hz}$ <p>Note</p> <p>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.</p>								
	RCD310	✓	--	3VA9114-ORS10		1	1 unit	1CB
	<ul style="list-style-type: none"> 4-pole Rated residual response current, adjustable: $I_{\Delta n} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 \text{ A}$; default: 30 mA Instantaneous (INS) 							
	RCD510	✓	--	3VA9113-ORS20		1	1 unit	1CB
	<ul style="list-style-type: none"> Rated residual response current, adjustable: $I_{\Delta n} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 \text{ A}$; default: 30 mA Delay time, adjustable: $\Delta t = \text{Instantaneous (INS)} - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3 \text{ s}$; default: Instantaneous (INS) <p>Versions</p>							
	• 3-pole	--	✓	3VA9213-ORS20		1	1 unit	1CB
	• 4-pole	✓	--	3VA9114-ORS20		1	1 unit	1CB
	• 4-pole	--	✓	3VA9214-ORS20		1	1 unit	1CB
<p>Type A (pulse current sensitive)</p> <ul style="list-style-type: none"> Mounted below (under trip unit) Can be mounted on molded case circuit breakers $U_e = 127 - 480 \text{ V AC}, 50/60 \text{ Hz}$ 								
	RCD320	✓	--	3VA9114-ORL10		1	1 unit	1CB
	<ul style="list-style-type: none"> 4-pole Rated residual response current, adjustable: $I_{\Delta n} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 \text{ A}$; default: 30 mA Instantaneous (INS) 							
	RCD520	✓	--	3VA9113-ORL20		1	1 unit	1CB
	<ul style="list-style-type: none"> Rated residual response current, adjustable: $I_{\Delta n} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 \text{ A}$; default: 30 mA Delay time, adjustable: $\Delta t = \text{Instantaneous (INS)} - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3 \text{ s}$; default: Instantaneous (INS) <p>Versions</p>							
	• 3-pole	--	✓	3VA9213-ORL20		1	1 unit	1CB
	• 4-pole	✓	--	3VA9114-ORL20		1	1 unit	1CB
	• 4-pole	--	✓	3VA9214-ORL20		1	1 unit	1CB

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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Residual current devices

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
	3VA20 3VA21	3VA22	3VA23	3VA24			d

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.
 - $U_e = 127 - 690 \text{ V AC}, 50/60 \text{ Hz}$

RCD820

- Rated residual response current, adjustable:
 $I_{\Delta n} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 - 10 - 30 \text{ A}$;
default: 30 mA
- Delay time, adjustable:
 $\Delta t = 0 - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3 - 5 - 10 \text{ s}$;
default: Instantaneous (INS)
- Note: 30 A setting range only for type AC applications



3VA9123-ORL30



3VA9124-ORL30

Versions

• 3-pole	✓	--	--	--	3VA9123-ORL30	1	1 unit	1CB
	--	✓	--	--	3VA9223-ORL30	1	1 unit	1CB
	--	--	✓	--	3VA9323-ORL30	1	1 unit	1CB
	--	--	--	✓	3VA9423-ORL30	1	1 unit	1CB
• 4-pole	✓	--	--	--	3VA9124-ORL30	1	1 unit	1CB
	--	✓	--	--	3VA9224-ORL30	1	1 unit	1CB
	--	--	✓	--	3VA9324-ORL30	1	1 unit	1CB
	--	--	--	✓	3VA9424-ORL30	1	1 unit	1CB

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

Modular residual current device MRCD

For more information, see chapter "Monitoring Devices".



Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Communication and testing/commissioning devices

2

Overview

Metering function

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

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

Communication via the COM800/COM100 breaker data server

The 3VA2 molded case circuit breaker utilizes 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 \geq 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

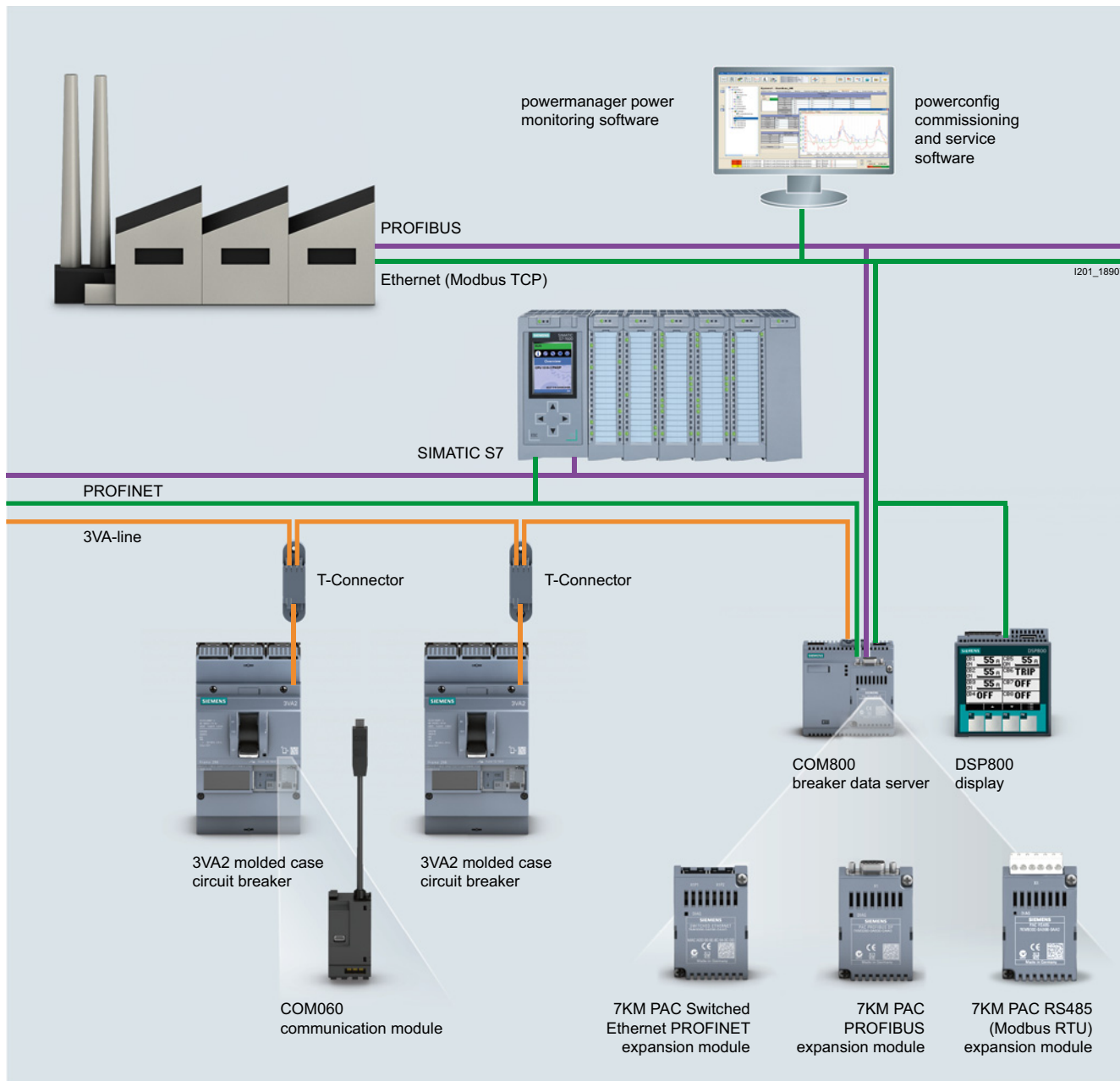
Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Communication and testing/commissioning devices

Design

2



Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Communication and testing/commissioning devices

Overview of the metering functions

Metering function ¹⁾	ETUs of the		Display		Communication COM800/COM100		
	5-series	8-series	Display in ETU	DSP800			
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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Communication and testing/commissioning devices

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	$0.08 \times I_b \dots 2 \times I_b$	±1%
Voltage (L-N)	$80 \text{ V} < U < 480 \text{ V}$	±1%
THD current	Up to the 19th harmonic $0.08 \times I_b \dots 2 \times I_b$	±5%
THD voltage	Up to the 19th harmonic $80 \text{ V} < U < 480 \text{ V}$	±5%
Power factor PF	$0.08 \times I_b \dots 2 \times I_b$	± 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	$0.08 \times I_b \dots 2 \times I_b$	±2%
Apparent power	PF ≥ 0.6 inductive PF ≥ 0.8 capacitive	
Reactive energy	$0.08 \times I_b \dots 2 \times I_b$	±2%
Apparent energy	PF ≥ 0.6 inductive PF ≥ 0.8 capacitive	
Frequency	$80 \text{ V} < U < 480 \text{ V}$	±0.1%

Legend:

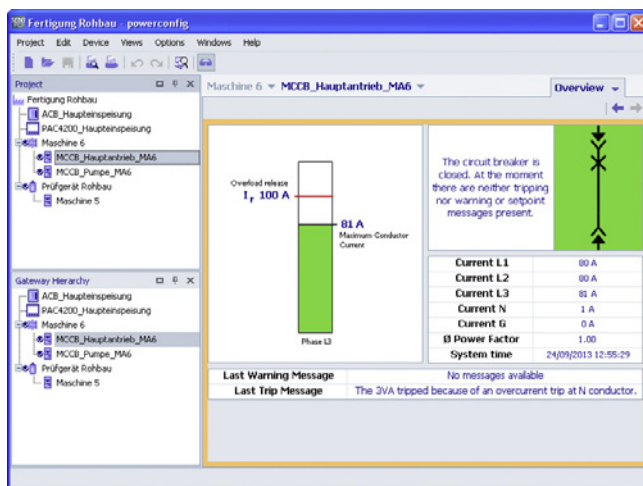
I_b is the maximum current in the relevant size.

Example: 3VA21 → $I_b = 160 \text{ A}$

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

All specified accuracies refer to an ambient temperature of $23 \text{ °C} \pm 2 \text{ °C}$.

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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Communication and testing/commissioning devices


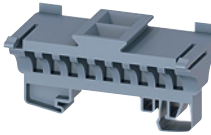







Selection and ordering data

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
24 V module							
 <p>24 V module</p> <ul style="list-style-type: none"> • 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							
 <p>COM060 communication module</p> <ul style="list-style-type: none"> • 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							
 <p>COM800 breaker data server</p> <ul style="list-style-type: none"> • 2 terminating resistors • Central communication module for connecting up to eight 3VA2 molded case circuit breakers via the 3VA-line • Ethernet 10/100 Mps interface • Module slot for plugging on an optional PROFIBUS DP or PROFINET module 			3VA9987-0TA10		1	1 unit	1CB
 <p>COM100 breaker data server</p> <ul style="list-style-type: none"> • 2 terminating resistors • Optimized, central communication module for connecting a 3VA2 molded case circuit breaker via the 3VA-line • Ethernet 10/100 Mps interface • Module slot for plugging on an optional PROFIBUS DP or PROFINET module 			3VA9987-0TA20		1	1 unit	1CB
 <p>7KM PAC PROFIBUS DP expansion module</p> <ul style="list-style-type: none"> • 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
 <p>7KM PAC Switched Ethernet PROFINET expansion module</p> <ul style="list-style-type: none"> • 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
 <p>7KM PAC RS 485 Modbus RTU expansion module</p> <ul style="list-style-type: none"> • 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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC



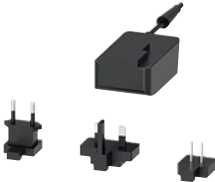

Communication and testing/commissioning devices

Version	SD	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.		1	1 unit	1CB	
 3VA9987-0TG11		DIN rail adapter For snapping the T-Connector onto a DIN rail.		1	1 unit	1CB	
 3VA9987-0TC10		Preassembled T-Connector-to-T-Connector or T-Connector-to-COM800/COM100 connecting cable • 0.4 m long		1	1 unit	1CB	
		• 1 m long		1	1 unit	1CB	
		• 2 m long		1	1 unit	1CB	
		• 4 m long		1	1 unit	1CB	
 3VA9987-0TF20		Preassembled connecting cable for extending the COM060-to-T-Connector spur line connection • 0.4 m long		1	1 unit	1CB	
		• 0.8 m long		1	1 unit	1CB	
 3VA9987-0TE10		Additional bus terminating resistors		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		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	• $I_n = 25 \dots 150$ A		1	1 unit	1CB
			• $I_n = 160 \dots 350$ A		1	1 unit	1CB
			• $I_n = 400 \dots 630$ A		1	1 unit	1CB
		Spare part: cable for connecting external current transformer for N conductor		1	1 unit	1CB	
Display							
 3VA9987-0TD10		DSP800 display • For displaying the status, measured values and parameters of up to 8 3VA2 molded case circuit breakers • Connection to the COM800/COM100 via Ethernet for displaying information of the COM800/COM100 and the connected 3VA2 molded case circuit breaker		1	1 unit	1CB	
External function box							
 3VA9987-0UA10		EFB300 • External function box for connection to the ETU of the 3VA2 molded case circuit breaker • 4 digital outputs for information output • 1 digital input • ZSI functionality • SO interface • Including cable 1.5 m in length		1	1 unit	1CB	
		Connecting cable for EFB300 Spare part					
		• Length 1.5 m		1	1 unit	1CB	
		• Length 3.0 m		1	1 unit	1CB	
	• Length 3.0 m for 3VA2 with EFB and RCD820		1	1 unit	1CB		

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Communication and testing/commissioning devices

Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Test devices						
 3VA9987-0MA10		TD300				
		<ul style="list-style-type: none"> • Connection to the front interface of the ETU • Test device for activating the ETU and triggering a test trip 			1	1 unit 1CB
 3VA9987-0MB10		TD500				
		<ul style="list-style-type: none"> • 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 external power supply • Including connecting cable to the 3VA2 molded case circuit breaker 			1	1 unit 1CB
 3VA9987-0MX10		Spare part: external power supply for TD500				
		Spare part 110 ... 240 V AC			1	1 unit 1CB
 3VA9987-0MY10		Spare part: cable for connecting the TD500 to the 3VA2 molded case circuit breaker				
					1	1 unit 1CB

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Locking, blocking and interlocking

Overview

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

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

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

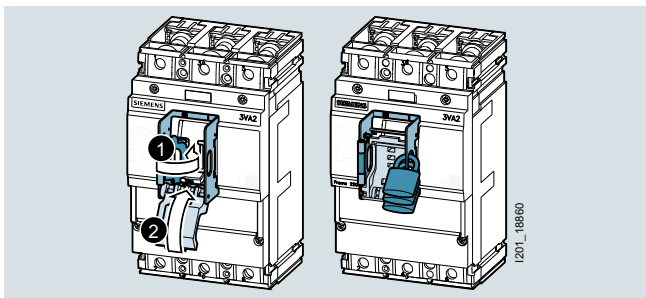
Using the interlocking technology, it is possible to mutually interlock two or more molded case circuit breakers. The interlock system is designed to ensure that no more than one molded case circuit breaker can be operated at a time. The following methods of interlocking can be used on 3VA molded case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

- Front interlock
- Rear interlock

Locking technology

Padlock device for the handle

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

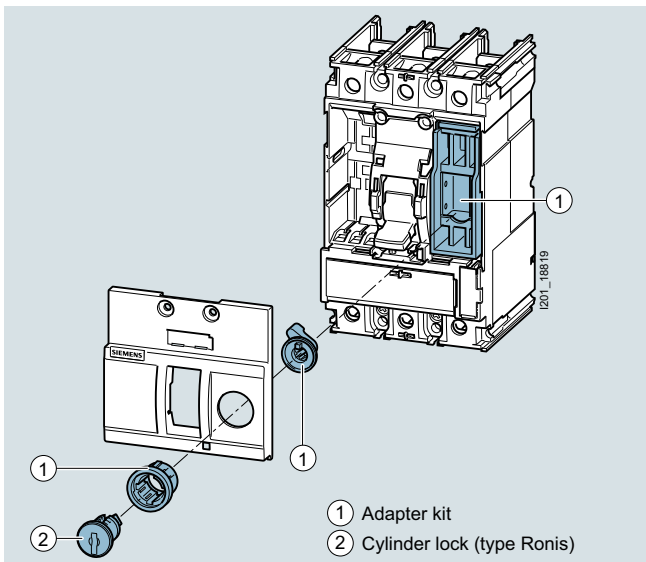


Locking with cylinder lock

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

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

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

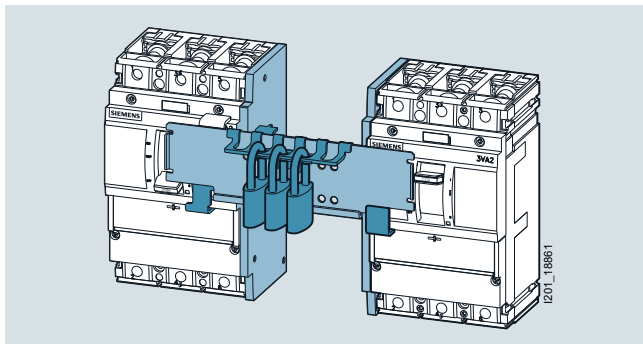


Interlocking technology

Interlocking by means of a sliding bar

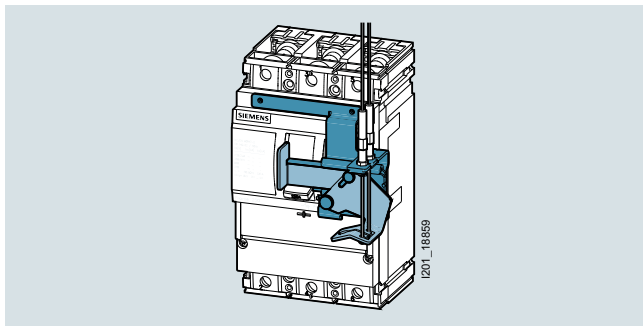
The sliding bar allows between two and three 3VA molded case circuit breakers of the same size to be mutually interlocked by means of a sliding bar.

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



Handle interlock using a Bowden cable

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



Interlocking with cylinder locks

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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

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

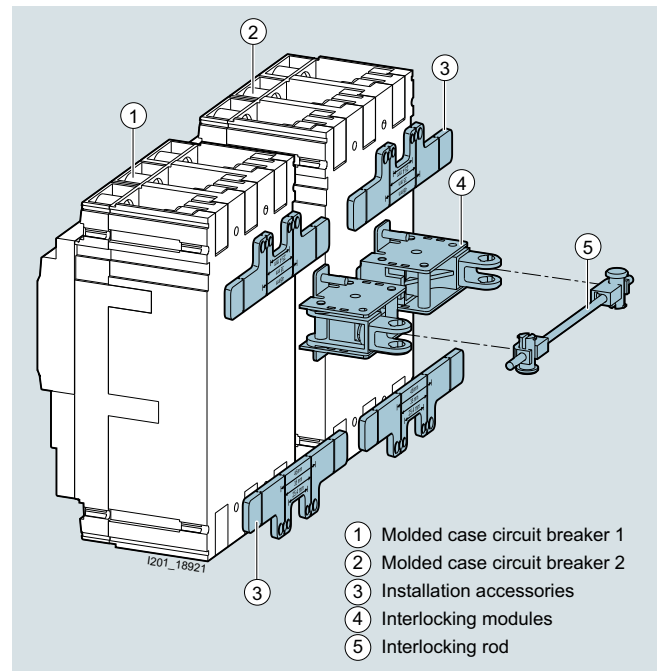
The rear interlock system allows implementation of an interlock without restricting the number of accessories which can be installed at the front of the 3VA molded case circuit breaker. Using the rear interlock, it is possible to create an interlock between two molded case circuit breakers of different 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

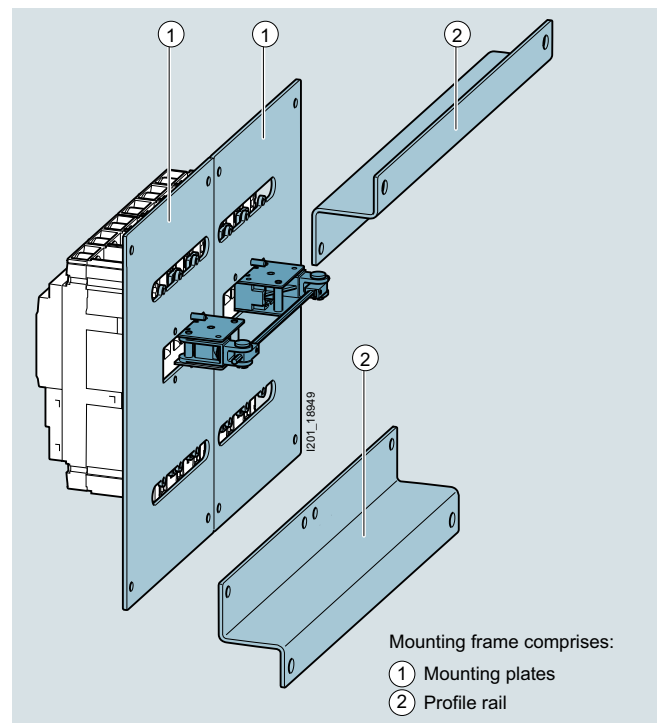
In order to install a rear interlock for plug-in or draw-out versions of the molded case circuit breakers, the plunger needs to be lengthened. The rear interlock for plug-in or draw-out versions is offered as a complete kit.



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.





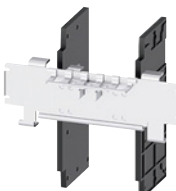




Rear interlock with mounting frame

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Locking, blocking and interlocking

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
	3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24						
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
 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 2 (lock number 2)	✓	✓	✓	✓	3VA9980-0VL20		1	1 unit	1CB
	• Key 3 (lock number 3)	✓	✓	✓	✓	3VA9980-0VL30		1	1 unit	1CB
• Key 4 (lock number 4)	✓	✓	✓	✓	3VA9980-0VL40		1	1 unit	1CB	
 3VA9168-0VF30	Sliding bar 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.	--	✓	--	--	3VA9257-0VF10		1	1 unit	1CB
	• A Bowden cable must be ordered separately.	--	--	✓	--	3VA9167-0VF10		1	1 unit	1CB
		--	--	--	✓	3VA9367-0VF10		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									
	Note	✓	✓	✓	✓	3VA9088-0VM30		1	1 unit	1CB
	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.									


Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Locking, blocking and interlocking

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
	3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24						
Mounting frame for rear interlock with rod For fixed mounting only The following are required for the complete mounting frame kit:										
Versions										
 3VA9088-0VK10	<ul style="list-style-type: none"> Profile rails Contents: 2 units 	✓	✓	✓	✓		3VA9088-0VK10	1	1 unit	1CB
	<ul style="list-style-type: none"> Mounting plate one per breaker, depending on size 	✓	--	--	--		3VA9158-0VK20	1	1 unit	1CB
 3VA9268-0VK20	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


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						
Accessories for locking										
Locking devices for toggle levers										
 3VA9388-0LB10	✓	✓	--	--		3VA9088-0LB10	1	1 unit	1CB	
	--	--	✓	✓		3VA9388-0LB10	1	1 unit	1CB	

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Other

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	d								
Cover frame for door cut-out										
Cover frame for door cut-out for molded case circuit breaker										
Versions										
 3VA9163-0SB10	• 3-pole, door cut-out without trip unit	✓	--	--	--	--	3VA9053-0SB10 3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB10	1	1 unit	1CB
		--	✓	--	--	--	3VA9053-0SB20 3VA9253-0SB20 3VA9163-0SB20 3VA9363-0SB20 3VA9503-0SB20	1	1 unit	1CB
		--	--	✓	--	--	3VA9054-0SB10 3VA9254-0SB10 3VA9164-0SB10 3VA9384-0SB10 3VA9504-0SB10	1	1 unit	1CB
		--	--	--	✓	--	3VA9054-0SB20 3VA9254-0SB20 3VA9164-0SB20 3VA9364-0SB20 3VA9504-0SB20	1	1 unit	1CB
		--	--	--	--	✓ NEW	3VA9053-0SB10 3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB10	1	1 unit	1CB
	• 3-pole, door cut-out with trip unit	✓	--	--	--	--	3VA9053-0SB20 3VA9253-0SB20 3VA9163-0SB20 3VA9363-0SB20 3VA9503-0SB20	1	1 unit	1CB
		--	✓	--	--	--	3VA9054-0SB10 3VA9254-0SB10 3VA9164-0SB10 3VA9384-0SB10 3VA9504-0SB10	1	1 unit	1CB
		--	--	✓	--	--	3VA9054-0SB20 3VA9254-0SB20 3VA9164-0SB20 3VA9364-0SB20 3VA9504-0SB20	1	1 unit	1CB
		--	--	--	✓ NEW	--	3VA9053-0SB10 3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB10	1	1 unit	1CB
	• 4-pole, door cut-out without trip unit	✓	--	--	--	--	3VA9054-0SB10 3VA9254-0SB10 3VA9164-0SB10 3VA9384-0SB10 3VA9504-0SB10	1	1 unit	1CB
		--	✓	--	--	--	3VA9054-0SB20 3VA9254-0SB20 3VA9164-0SB20 3VA9364-0SB20 3VA9504-0SB20	1	1 unit	1CB
		--	--	✓	--	--	3VA9053-0SB10 3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB10	1	1 unit	1CB
		--	--	--	✓ NEW	--	3VA9054-0SB10 3VA9254-0SB10 3VA9164-0SB10 3VA9384-0SB10 3VA9504-0SB10	1	1 unit	1CB
	• 4-pole, door cut-out with trip unit	✓	--	--	--	--	3VA9054-0SB20 3VA9254-0SB20 3VA9164-0SB20 3VA9364-0SB20 3VA9504-0SB20	1	1 unit	1CB
		--	✓	--	--	--	3VA9053-0SB10 3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB10	1	1 unit	1CB
		--	--	✓	--	--	3VA9054-0SB10 3VA9254-0SB10 3VA9164-0SB10 3VA9384-0SB10 3VA9504-0SB10	1	1 unit	1CB
		--	--	--	✓ NEW	--	3VA9053-0SB10 3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB10	1	1 unit	1CB
	Cover frame for MO320 motor operators	✓	--	--	--	--	3VA9053-0SB20 3VA9257-0SB30 3VA9387-0SB30	1	1 unit	1CB
		--	✓	✓	--	--	3VA9053-0SB10 3VA9253-0SB10 3VA9303-0SB40	1	1 unit	1CB
		--	--	--	✓	--	3VA9054-0SB10 3VA9254-0SB10 3VA9304-0SB40	1	1 unit	1CB
		--	--	--	✓	--	3VA9053-0SB10 3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB50	1	1 unit	1CB
	Cover frame for RCD320, RCD520 and RCD820 residual current devices	✓	--	--	--	--	3VA9053-0SB10 3VA9253-0SB10 3VA9303-0SB40	1	1 unit	1CB
	Versions									
	• 3-pole	✓	--	--	--	--	3VA9053-0SB10 3VA9253-0SB10 3VA9303-0SB40	1	1 unit	1CB
		--	✓	✓	--	--	3VA9054-0SB10 3VA9254-0SB10 3VA9304-0SB40	1	1 unit	1CB
		--	--	--	✓	--	3VA9053-0SB10 3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB50	1	1 unit	1CB
	• 4-pole	✓	--	--	--	--	3VA9054-0SB10 3VA9254-0SB10 3VA9304-0SB40	1	1 unit	1CB
		--	✓	✓	--	--	3VA9053-0SB10 3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB50	1	1 unit	1CB
		--	--	--	✓	--	3VA9054-0SB10 3VA9254-0SB10 3VA9304-0SB40	1	1 unit	1CB
	Cover frame for front mounted rotary operator	✓	--	--	--	--	3VA9053-0SB10 3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB50	1	1 unit	1CB
		--	✓	--	--	--	3VA9053-0SB10 3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB50	1	1 unit	1CB
		--	--	✓	--	--	3VA9053-0SB10 3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB50	1	1 unit	1CB
		--	--	--	✓ NEW	--	3VA9053-0SB10 3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB50	1	1 unit	1CB
	Cover frame for door feedthrough	--	✓	✓	--	--	3VA9253-0SB20 3VA9353-0SB20	1	1 unit	1CB
		--	--	--	✓	--	3VA9253-0SB20 3VA9353-0SB20	1	1 unit	1CB
	Labeling plate for cover frame						3VA9087-0SX10	1	10 units	1CB
							3VA9087-0SX10	1	10 units	1CB

3VA9087-0SX10

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

Other

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						

Adapter for DIN rails for 3VA1 molded case circuit breakers



Adapter for DIN rails for 3VA1 molded case circuit breakers

Versions

- 1-pole¹⁾
- 2-pole
- 3 and 4-pole
- 3 and 4-pole in conjunction with RCD310 or RCD510

3VA9187-0SH10

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 3VA 1000 A 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










Molded Case Circuit Breakers








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

Introduction

Overview

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Devices	Page	Application/ individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
 <p>3VL molded case circuit breakers for line protection</p> <p>3VL molded case circuit breakers for generator protection</p>	2/146 ... 2/161, 2/170 ... 2/187	<p>The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads.</p> <p>The overload and short-circuit releases can be used for optimized protection of generators.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.	✓	✓	✓
 <p>3VL molded case circuit breakers for motor protection</p> <p>Are you IE3/IE4 ready?</p> 	2/162 ... 2/165	<p>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.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2. IE3 ready	✓	✓	✓
 <p>3VL molded case circuit breakers for starter protection</p> <p>Are you IE3/IE4 ready?</p> 	2/166, 2/167	<p>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.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2. IE3 ready	✓	✓	✓
 <p>3VL non-automatic circuit breakers, molded case</p>	2/166, 2/167, 2/188, 2/189	<p>These circuit breakers are used as feeder circuit breakers, main control switches or disconnectors without overload protection. They have fixed short-circuit releases.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2. Isolating features according to IEC 60947-2, EN 60947-2.	✓	✓	✓
 <p>Auxiliary switches and auxiliary releases for 3VL molded case circuit breakers</p>	2/195, 2/196	<p>Auxiliary switches, alarm switches, undervoltage releases and shunt releases</p>	As for circuit breakers	✓	✓	✓
 <p>Operating mechanisms</p>	2/198 ... 2/205	<p>The manual operating mechanisms are available in two versions:</p> <ul style="list-style-type: none"> • Front-operated rotary operating mechanism, • Door-coupling rotary operating mechanism <p>In the case of the motorized operating mechanisms there are also two versions:</p> <ul style="list-style-type: none"> • MO for standard applications • SEO for network synchronization tasks 	As for circuit breakers	✓	✓	✓
 <p>Plug-in versions/withdrawable versions</p>	2/206 ... 2/211	<p>Assembly in plug-in and withdrawable versions allows the 3VL molded case circuit breaker to be replaced quickly without accessing the terminals.</p>	As for circuit breakers	✓	✓	✓

Devices	Page	Application/ individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
	2/212	Protection of plant and personnel against damage or injury caused by residual currents and insulation faults.	IEC EN 60947-2 (Annex 5)	✓	✓	✓
	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)	✓	✓	✓
	2/213 ... 2/218	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	✓	✓	✓
	2/219 ... 2/224	Locking devices for toggle levers, rear interlocking modules, interlocking modules for Bowden cable interlocking	As for circuit breakers	✓	✓	✓
	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	✓	✓	✓
	Ch. 11	Busbar adapters	As for circuit breakers	✓	✓	✓
	2/227	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	2/228 ... 2/231	Cover frames for door cut-outs, to increase degree of protection	As for circuit breakers	✓	✓	✓

Molded Case Circuit Breakers

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

Introduction

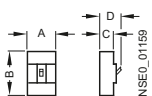
2



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 DC ¹⁾	V	690	690	690	690	690	690	690	690
	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
	B	mm	157	157	175	175	175	175	279
	C	mm	81	81	81	81	81	81	102
	D	mm	107	107	107	107	107	107	138

Breaking capacity I_{cu}/I_{cs}

RMS value acc. to IEC 60947-2

Standard breaking capacity N³⁾

		VL160X/3VL1		VL160/3VL2		VL250/3VL3		VL400/3VL4	
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 H³⁾

		VL160X/3VL1		VL160/3VL2		VL250/3VL3		VL400/3VL4	
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 L³⁾

		VL160X/3VL1		VL160/3VL2		VL250/3VL3		VL400/3VL4	
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 acc. to UL 489,
see page 2/234 or see Catalog LV 16.

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

²⁾ For PV applications up to $U_e = 1000$ V DC.

Molded Case Circuit Breakers

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

Introduction

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VL630/3VL5



VL800/3VL6



VL1250/3VL7



VL1600/3VL8

3VL molded case circuit breakers up to 1600 A

315 ... 630		800		1000 ... 1250		1600	
3	4	3	4	3	4	3	4
690	690	690	690	690	690	690	690
600	600	--	--	--	--	--	--
✓	✓	--	--	--	--	--	--
✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓
190	253	190	253	229	305	229	305
279	279	406	406	406	406	406	406
102	102	114	114	152	152	152	152
138	138	151	151	207	207	207	207

65/65	65/65	65/35	65/35
55/55	55/55	55/28	55/28
35/26	35/26	35/26	35/26
25/20	25/20	25/20	25/20
20/10	20/10	20/10	20/10
32/32	--	--	--
--	--	--	--
--	--	--	--
25	25	25	25
20	20	20	20

100/75	100/75	100/50	100/50
70/70	70/70	70/35	70/35
50/38	50/38	50/38	50/38
40/30	40/30	40/30	40/30
20/10	20/10	30/15	30/15
32/32	--	--	--
32/32	--	--	--
--	--	--	--
50	50	50	50
30	30	30	30

200/150	200/150	200/100	200/100
100/75	100/75	100/50	100/50
75/50	75/50	75/50	75/50
50/38	50/38	50/38	50/38
20/10	20/10	35/17	35/17
32/32	--	--	--
32/32	--	--	--
32/32	--	--	--
65	65	65	65
35	35	35	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.

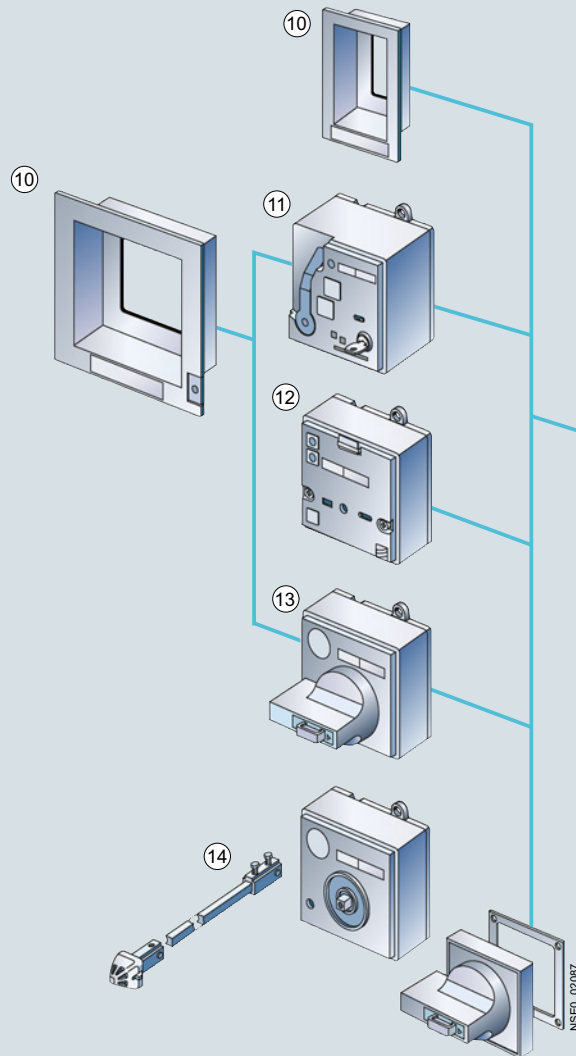
6) The NEMA breaking capacity can be found on the rating plate of each IEC circuit breaker.

Molded Case Circuit Breakers

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

Introduction

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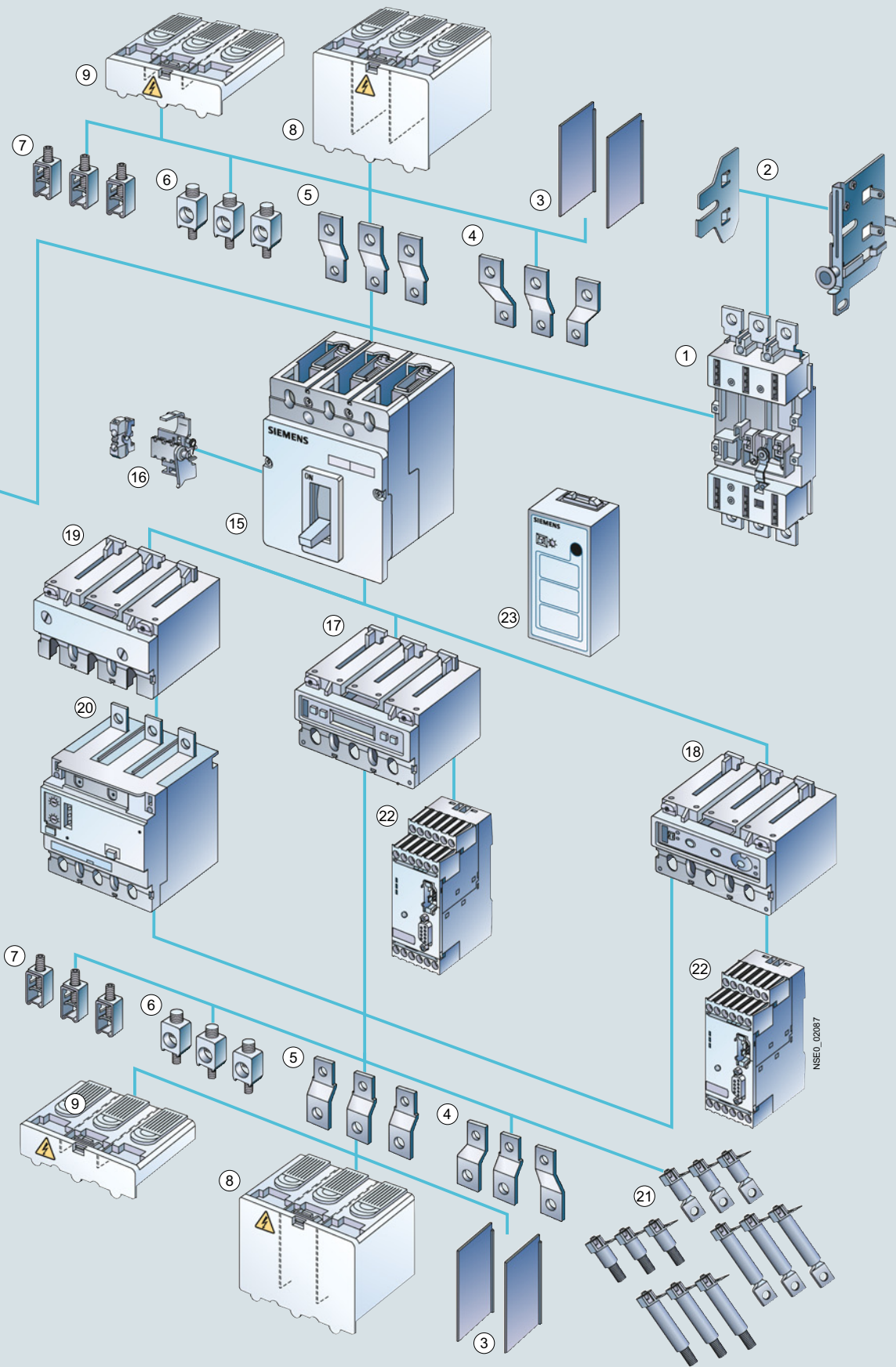
- ① Withdrawable/plug-in bases (pages 2/206 to 2/211)
- ② Side walls of withdrawable unit (pages 2/206 to 2/211)
- ③ Phase barriers (pages 2/213 to 2/218)
- ④ Front connecting bars for increased pole spacing (pages 2/213 to 2/218)
- ⑤ Straight connecting bars (pages 2/213 to 2/218)
- ⑥ Circular conductor terminals for Al/Cu (pages 2/213 to 2/215)
- ⑦ Box terminals for Cu (pages 2/213 to 2/218)
- ⑧ Extended connection covers (terminal covers) (pages 2/213 to 2/218)
- ⑨ Standard connection covers (pages 2/213 to 2/218)
- ⑩ Masking frames/cover frames for door cut-out (pages 2/228 to 2/231)
- ⑪ Motorized operating mechanisms with stored energy mechanism (SEO) (page 2/202)
- ⑫ Motorized operating mechanisms (MO) (page 2/202)
- ⑬ Front-operated rotary operating mechanisms (pages 2/198 to 2/201)
- ⑭ Door-coupling rotary operating mechanisms (pages 2/198 to 2/201)
- ⑮ 3VL molded case circuit breakers (pages 2/146 to 2/189)
- ⑯ Internal accessories (pages 2/193, 2/194, 2/195 to 2/197)
- ⑰ Electronic Trip Units LCD ETU (pages 2/156, 2/160, 2/164, 2/180 and 2/182)
- ⑱ Electronic Trip Units with communication function (pages 2/148 to 2/165, 2/176 to 2/186)
- ⑲ Thermal/magnetic trip units (pages 2/146 to 2/148, 2/166, 2/170 to 2/174, 2/188)
- ⑳ RCD modules (page 2/212)
- ㉑ Rear terminals, flat and round (pages 2/213 to 2/218)
- ㉒ COM20/21 communication module for the PROFIBUS DP/MODBUS (page 2/227)
- ㉓ Battery power supplies with test function for Electronic Trip Units (pages 2/220 to 2/224)

Molded Case Circuit Breakers

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

Introduction

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Molded Case Circuit Breakers

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

General data

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 2/148 to 2/165, 2/176 to 2/186](#).
- For communication accessories, [see page 2/227](#).
- 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>.

Molded Case Circuit Breakers

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

General data

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	□	□	x	x	x
VL160	□	□	x	x	x
VL250	□	□	x	x	x
VL400	x	○	x ²⁾³⁾	x	x
VL630	x ¹⁾	○	x ²⁾	x	x
VL800	--	○	x ²⁾	x	x
VL1250	--	○	x ²⁾	x	x
VL1600	--	x	--	x	○

○ Scope of supply

□ Optional scope of supply

x 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
• 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
• 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
For details, see Mounting Instructions .								

¹⁾ Cross-sections according to IEC 60999.

²⁾ Not for 690 V AC/600 V DC.

Molded Case Circuit Breakers

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

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	S ¹⁾	I ¹⁾	G		
								Overload protection	Short-circuit protection (short-time delayed)	Short-circuit protection (instantaneous)	Ground-fault protection		
								$I_r = \times I_n$	$I_{sd} = \times I_r$	t_{sd} [s]	$I_I = \times I_n$	$I_G = \times I_n$	t_g [s]
DK	M	--	--	--	✓	--	I	--	--	--	7 ... 15	--	--
DE	M	--	--	--	--	✓	I	--	--	--	8 ... 18	--	--
EE	M	--	--	--	--	✓	I	--	--	--	8 ... 18	--	--
DA	TM ²⁾	✓	--	--	--	--	LI	1	--	--	9 ... 18 ⁴⁾	--	--
DD	TM ²⁾	✓	--	--	--	--	LI	0.8 ... 1	--	--	9 ... 18 ⁴⁾	--	--
DC	TM ²⁾	✓	--	--	--	--	LI	0.8 ... 1	--	--	5 ... 10	--	--
EH	TM ²⁾	✓	--	--	--	--	LI	1	--	--	9 ... 18 ⁴⁾	--	--
EJ	TM ²⁾	✓	--	--	--	--	LI	0.8 ... 1	--	--	5 ... 10	--	--
EA/EL	TM ²⁾	✓	--	--	--	--	LIN	1	--	--	9 ... 18 ⁴⁾	--	--
EC	TM ²⁾	✓	--	--	--	--	LIN	0.8 ... 1	--	--	5 ... 10	--	--
EM	TM ²⁾	✓	--	--	--	--	LIN	0.8 ... 1	--	--	5 ... 10	--	--
SP	ETU10M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
MP	ETU10M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
SB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
MB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
LB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
TA	ETU10	✓	--	--	--	--	LIN	0.4 ... 1	--	--	1.25 ... 11	--	--
NA	ETU10	✓	--	--	--	--	LIN	0.4 ... 1	--	--	1.25 ... 11	--	--
LA	ETU10	✓	--	--	--	--	LIN	0.4 ... 1	--	--	1.25 ... 11	--	--
TB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
NB	ETU10	✓	--	--	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
SL	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3
ML	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3
SF	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3
MF	ETU12	✓	--	--	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3
TN	ETU12	✓	--	--	--	--	LING	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3
NN	ETU12	✓	--	--	--	--	LING	0.4 ... 1	--	--	1.25 ... 11	0.6 ... 1, OFF	0.1 ... 0.3
SE	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--
ME	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--
LE	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--
TE	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--
NE	ETU20	--	✓	--	--	--	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--
TF	ETU20	--	✓	--	--	--	LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--
NF	ETU20	--	✓	--	--	--	LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--
LF	ETU20	--	✓	--	--	--	LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	--	--
SG	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3
MG	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3
SH	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3
MH	ETU22	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3
TH	ETU22	--	✓	--	--	--	LSING	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3
NH	ETU22	--	✓	--	--	--	LSING	0.4 ... 1	1.5 ... 10	0 ... 0.5	11	0.6 ... 1, OFF	0.1 ... 0.3
SS	ETU30M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--
MS	ETU30M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--
LS	ETU30M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	6/8/11	--	--
UP	LCD ETU40M ³⁾	--	--	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--	--
UH	LCD ETU40	--	✓	--	--	--	LI, LS, LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	--	--
UJ	LCD ETU40	--	✓	--	--	--	LI, LSI, LIN, LSIN	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	--	--
UL	LCD ETU42	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1	0.1 ... 0.5
UM	LCD ETU42	--	✓	--	--	--	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1	0.1 ... 0.5
UN	LCD ETU42	--	✓	--	--	--	LSIG, LSING	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1	0.1 ... 0.5

✓ Function is available.

-- Function not available.

¹⁾ Size dependent.

²⁾ TM up to $I_n = 630$ A.

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

⁴⁾ Fixed.

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 (I_C)	Time-lag class (I_n)	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

1) Size dependent.

2) TM up to $I_n = 630$ A.3) Motor protection up to $I_n = 500$ A.

4) With COM20/COM21.

✓ Function is available.

-- Function not available.

Molded Case Circuit Breakers

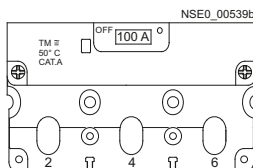
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

Selection and ordering data

Type	Rated current I_n	Current setting range of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See Overview .	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	A	d		Article No. supplement, see page 2/192; www.siemens.com/product?ArticleNo.				

3-pole, fixed-mounted, for line protection, 16 A to 160 A, thermal-magnetic overcurrent releases LI



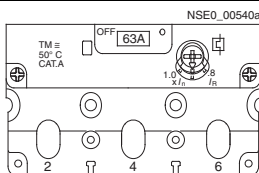
Line protection, TM, LI function

With fixed thermal overcurrent releases, fixed short-circuit releases

VL160X/ 3VL1	16	16	300	3VL1796-1DA3□-□□□□	1	1 unit	1CC
	20	20	300	3VL1702-1DA3□-□□□□	1	1 unit	1CC
	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 module¹⁾ **6**



Line protection, TM, LI function

With adjustable thermal overcurrent releases, fixed short-circuit releases

VL160X/ 3VL1	20	16 ... 20	300	3VL1702-1DD3□-□□□□	1	1 unit	1CC
	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 module¹⁾ **6**

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

Molded Case Circuit Breakers

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

3-pole

2

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 2/192, www.siemens.com/ product?Article.No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. Article No. supplement, see page 2/192, www.siemens.com/ product?Article.No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

3VL1796-2DA3□-□□□□
3VL1702-2DA3□-□□□□
3VL1725-2DA3□-□□□□
3VL1703-2DA3□-□□□□
3VL1704-2DA3□-□□□□
3VL1705-2DA3□-□□□□
3VL1706-2DA3□-□□□□
3VL1708-2DA3□-□□□□
3VL1710-2DA3□-□□□□
3VL1712-2DA3□-□□□□
3VL1716-2DA3□-□□□□

1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC
1 1 unit 1CC

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3VL1702-2DD3□-□□□□
3VL1703-2DD3□-□□□□
3VL1704-2DD3□-□□□□
3VL1705-2DD3□-□□□□
3VL1706-2DD3□-□□□□
3VL1708-2DD3□-□□□□
3VL1710-2DD3□-□□□□
3VL1712-2DD3□-□□□□
3VL1716-2DD3□-□□□□

1 1 unit 1CC
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Molded Case Circuit Breakers

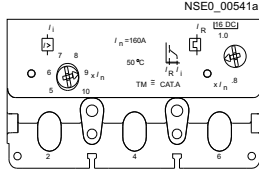
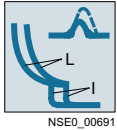
3VL Molded Case Circuit Breakers up to 1600 A, IEC

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 See "Overview".	(N)			
	A	A	A	d	Article No. Article No. supplement, see page 2/192; www.siemens.com/product?ArticleNo	Basic price per PU/ Price see page 2/168	PU (UNIT, SET, M)	PS	PG

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

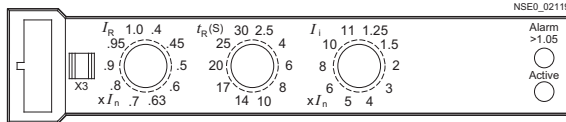
Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with flat screw terminal¹⁾

3
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
- Connection with flat screw terminal¹⁾

3
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
- With communication preparation
- Marine engineering-certified LRS, DNV, GL and BV (not communication-ready)

SB
MB
LB

- When the circuit breaker with flat screw terminal is ordered, the basic price is reduced.
- Front busbar connection pieces are included in the scope of supply and are to be fitted by the customer.

Communication:

- For accessories, see page 2/227.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

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

3-pole

2

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L				
	Article No.	Basic price per PU/ Price see page 2/168	PU (UNIT, SET, M)	PS	PG		Article No.	Basic price per PU/ Price see page 2/168	PU (UNIT, SET, M)	PS	PG
d	Article No. supplement, see page 2/192; www.siemens.com/product?Article No.					d	Article No. supplement, see page 2/192; www.siemens.com/product?Article No.				

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		

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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		

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6

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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

Molded Case Circuit Breakers

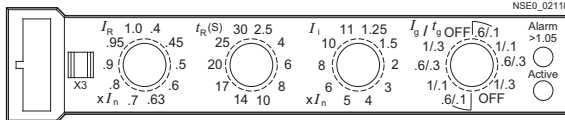
3VL Molded Case Circuit Breakers up to 1600 A, IEC

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	Ground-fault protection "G" I_g	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N				
						See "Overview"				
						Article No.	Price, see page 2/168	PU (UNIT, SET, M)	PS	PG
						Article No. supplement, see page 2/192; www.siemens.com/product?Article No.				

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



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

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

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

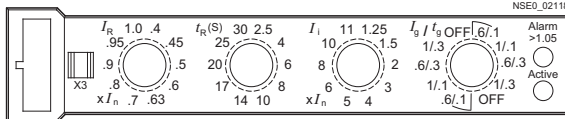
Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
 - Connection with screw terminal¹⁾
- 3**
6

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

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

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



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 2/226. Ground fault delay $t_g = 0.1 \dots 0.3$ s, ground fault function (G) can be switched off.

VL160/3VL2	63	25 ... 63	$1.25 \dots 11 \times I_n$	$0.6 \dots 1 \times I_n$, OFF	3VL2706-1□□3□-□□□□	1	1 unit	1CC
	100	40 ... 100	$1.25 \dots 11 \times I_n$	$0.6 \dots 1 \times I_n$, OFF	3VL2710-1□□3□-□□□□	1	1 unit	1CC
	160	64 ... 160	$1.25 \dots 11 \times I_n$	$0.6 \dots 1 \times I_n$, OFF	3VL2716-1□□3□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$1.25 \dots 11 \times I_n$	$0.6 \dots 1 \times I_n$, OFF	3VL3720-1□□3□-□□□□	1	1 unit	1CC
	250	100 ... 250	$1.25 \dots 11 \times I_n$	$0.6 \dots 1 \times I_n$, 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
 - Connection with screw terminal¹⁾
- 3**
6

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

- Without communication preparation
 - With communication preparation
- SF**
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.

Molded Case Circuit Breakers

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

3-pole

2

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.	Price, see page 2/168	PU (UNIT, SET, M)	PS	PG	d	Article No.	Price, see page 2/168	PU (UNIT, SET, M)	PS	PG		
	Article No. supplement, see page 2/192; www.siemens.com/product?Article No.						Article No. supplement, see page 2/192; www.siemens.com/product?Article No.						

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
63
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		

SL
MLSL
ML

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
63
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		

SF
MFSF
MF

Communication:

- For accessories, see page 2/227.

- 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.

Molded Case Circuit Breakers

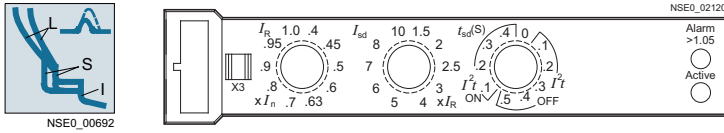
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	S function, short-circuit protection (short-time delayed) S	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	Article No.	Price, see page 2/168	PU (UNIT, SET, M)	PS	PG
	A	A	A	A	d		Article No. supplement, see page 2/192; www.siemens.com/product?ArticleNo.				

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



ETU20, LSI function for time-based discrimination

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

VL160/3VL2	63	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL2706-1□□3□-□□□□	1	1 unit	1CC
	100	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL2710-1□□3□-□□□□	1	1 unit	1CC
	160	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL2716-1□□3□-□□□□	1	1 unit	1CC
VL250/3VL3	200	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL3720-1□□3□-□□□□	1	1 unit	1CC
	250	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	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
 - Connection with screw terminal¹⁾
- 3
6

VL400/3VL4	315	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL4731-1□□36-□□□□	1	1 unit	1CC
	400	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL4740-1□□36-□□□□	1	1 unit	1CC
VL630/3VL5	630	$0.4 \dots 1.0 \times I_n$	$10 \times I_n$	$1.5 \dots 9 \times I_R$	3VL5763-1□□36-□□□□	1	1 unit	1CC
VL800/3VL6	800	$0.4 \dots 1.0 \times I_n$	$8 \times I_n$	$1.5 \dots 7 \times I_R$	3VL6780-1□□36-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL7710-1□□36-□□□□	1	1 unit	1CC
	1250	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL7712-1□□36-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	$0.4 \dots 1.0 \times I_n$	$9 \times I_n$	$1.5 \dots 8 \times I_R$	3VL8716-1□□30-□□□□	1	1 unit	1CC

- Without communication preparation
 - With communication preparation
 - Marine engineering-certified LRS, DNV, GL and BV (not communication-ready)
- SE
ME
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 2/227.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

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

3-pole

2

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 2/192; www.siemens.com/ product?Article No.	Price, see page 2/168	PU (UNIT, SET, M)	PS	PG	Article No. Article No. supplement, see page 2/192; www.siemens.com/ product?Article No.	Price, see page 2/168	PU (UNIT, SET, M)	PS	PG

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

Molded Case Circuit Breakers

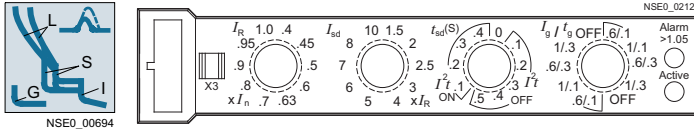
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_I	S function, short-circuit protection (short-time delayed) S	Ground-fault protection "G" I_g	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)			
	A	A	A	A	A	d	Article No. Article No. supplement, see page 2/192; www.siemens.com/product?Article No.	Price, see page 2/168	PU (UNIT, SET, M)	PS	PG

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



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

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

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL2706-1□□3□-□□□□	1	1 unit	1CC
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL2710-1□□3□-□□□□	1	1 unit	1CC
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL2716-1□□3□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL3720-1□□3□-□□□□	1	1 unit	1CC
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, 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
 - Connection with screw terminal¹⁾
- 3**
6

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

- Without communication preparation
 - With communication preparation
- SG**
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 2/227.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

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

3-pole

2

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 2/192; www.siemens.com/product?Article No.	Price, see page 2/168	PU (UNIT, SET, M)	PS	PG

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

Molded Case Circuit Breakers

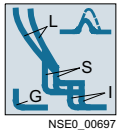
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

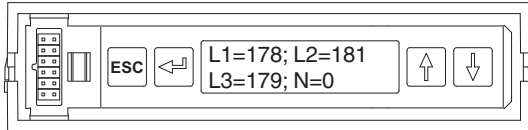
2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	S function, short-circuit protection (short-time delayed) S	Ground-fault protection "G" I_g	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)			
	A	A	A	A	A	d	Article No. Article No. supplement, see page 2/192; www.siemens.com/ product?Article.No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

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 $t_{fg} = 0.1 \dots 0.5$ s, short-circuit delay $t_{sd} = 0 \dots 0.5$ s

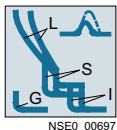
VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL2706-1UL30-□□□□	1	1 unit	1CC
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL2710-1UL30-□□□□	1	1 unit	1CC
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL2716-1UL30-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL3720-1UL30-□□□□	1	1 unit	1CC
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL3725-1UL30-□□□□	1	1 unit	1CC

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

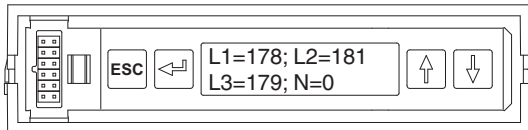
- Connection with box terminal
- Connection with screw terminal¹⁾

3
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL4731-1UL36-□□□□	1	1 unit	1CC
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL4740-1UL36-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	3VL5763-1UL36-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	3VL6780-1UL36-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL7710-1UL36-□□□□	1	1 unit	1CC
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL7712-1UL36-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	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 2/226.

Vectorial summation current formation, ground-fault delay $t_{fg} = 0.1 \dots 0.5$ s, short-circuit delay $t_{sd} = 0 \dots 0.5$ s

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL2706-1UM30-□□□□	1	1 unit	1CC
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL2710-1UM30-□□□□	1	1 unit	1CC
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL2716-1UM30-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL3720-1UM30-□□□□	1	1 unit	1CC
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL3725-1UM30-□□□□	1	1 unit	1CC

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

- Connection with box terminal
- Connection with screw terminal¹⁾

3
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL4731-1UM36-□□□□	1	1 unit	1CC
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL4740-1UM36-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.4 \dots 1 \times I_n$	3VL5763-1UM36-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.4 \dots 1 \times I_n$	3VL6780-1UM36-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL7710-1UM36-□□□□	1	1 unit	1CC
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.4 \dots 1 \times I_n$	3VL7712-1UM36-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.4 \dots 1 \times I_n$	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.

Molded Case Circuit Breakers

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

3-pole

2

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.	Basic price per PU	PU (UNIT, SET, M)	PS	PG	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
Article No. supplement, see page 2/192; www.siemens.com/product?Article No.					Article No. supplement, see page 2/192; www.siemens.com/product?Article No.				

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
63
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
63
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

Molded Case Circuit Breakers

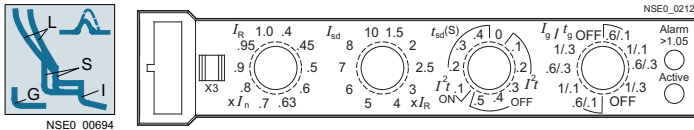
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	S function, short-circuit protection (short-time delayed) S	Ground-fault protection "G" I_g	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	(N)			
	A	A	A	A	A	d	Article No. Article No. supplement, see page 2/192; www.siemens.com/product?Article No.	Price, see page 2/168	PU (UNIT, SET, M)	PS	PG

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



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 2/226. Ground-fault delay $t_g = 0.1 \dots 0.3$ s, short-circuit delay $t_{sd} = 0 \dots 0.5$ s, ground fault function (G) can be switched off.

VL160/3VL2	63	25 ... 63	$11 \times I_n$	1.5 ... 10	$10 \times I_R$	0.6 ... 1	$1 \times I_n$, OFF	3VL2706-1 □□3□-□□□□	1	1 unit	1CC
	100	40 ... 100	$11 \times I_n$	1.5 ... 10	$10 \times I_R$	0.6 ... 1	$1 \times I_n$, OFF	3VL2710-1 □□3□-□□□□	1	1 unit	1CC
	160	64 ... 160	$11 \times I_n$	1.5 ... 10	$10 \times I_R$	0.6 ... 1	$1 \times I_n$, OFF	3VL2716-1 □□3□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$11 \times I_n$	1.5 ... 10	$10 \times I_R$	0.6 ... 1	$1 \times I_n$, OFF	3VL3720-1 □□3□-□□□□	1	1 unit	1CC
	250	100 ... 250	$11 \times I_n$	1.5 ... 10	$10 \times I_R$	0.6 ... 1	$1 \times I_n$, 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
- Connection with screw terminal¹⁾

3
6

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

- Without communication preparation
- With communication preparation

SH
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 2/227.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

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

3-pole

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 2/192; www.siemens.com/ product?Article No.	Price, see page 2/168	PU (UNIT, SET, M)	PS	PG	d	Article No. Article No. supplement, see page 2/192; www.siemens.com/ product?Article No.	Price, see page 2/168	PU (UNIT, SET, M)	PS	PG

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					

Molded Case Circuit Breakers

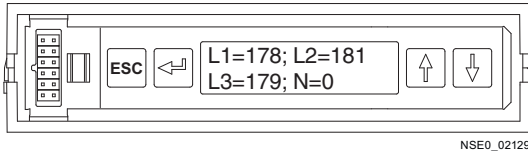
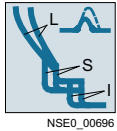
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overcurrent protection "L" I_R	Operating current of the instantaneous short-circuit protection "I" I_i	S function, short-circuit protection (short-time delayed) S	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N See "Overview".	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	A	A	d		Article No. supplement, see page 2/192; www.siemens.com/product?Article No.				

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



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
- Connection with screw terminal¹⁾

3
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.

Molded Case Circuit Breakers

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

3-pole

2

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 2/192; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG	d	Article No. Article No. supplement, see page 2/192; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

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
63
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

Molded Case Circuit Breakers

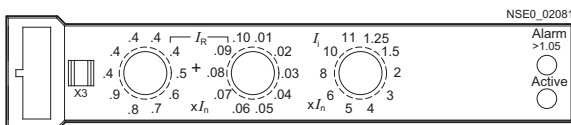
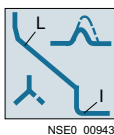
3VL Molded Case Circuit Breakers up to 1600 A, IEC

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 See "Overview".	Article No.	Price, see page 2/168	PU (UNIT, SET, M)	PS	PG
	A	A	A	d		Article No. supplement, see page 2/192; www.siemens.com/product?ArticleNo.				

3-pole, fixed-mounted, for motor protection, 63 A to 500 A, Electronic Trip Units LI



ETU10M, LI function¹⁾

With thermal image, with fixed trip class $t_C = 10$, with phase failure sensitivity 40% I_R

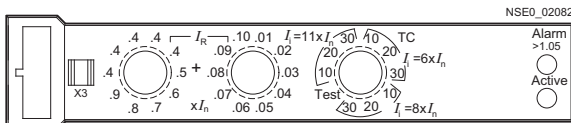
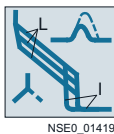
VL160/3VL2	63	25 ... 63	$1.25 \dots 11 \times I_n$	3VL2706-1□□3□-□□□□	1	1 unit	1CC
	100	40 ... 100	$1.25 \dots 11 \times I_n$	3VL2710-1□□3□-□□□□	1	1 unit	1CC
	160	64 ... 160	$1.25 \dots 11 \times I_n$	3VL2716-1□□3□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$1.25 \dots 11 \times I_n$	3VL3720-1□□3□-□□□□	1	1 unit	1CC
	250	100 ... 250	$1.25 \dots 11 \times I_n$	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 terminal²⁾ **6**

VL400/3VL4	315	125 ... 315	$1.25 \dots 11 \times I_n$	3VL4731-1□□36-□□□□	1	1 unit	1CC
VL630/3VL5	500	200 ... 500	$1.25 \dots 12.5 \times I_n$	3VL5750-1□□36-□□□□	1	1 unit	1CC

- Without communication preparation **SP**
- With communication preparation **MP**



ETU30M, LI function¹⁾

With thermal image, with adjustable trip class $t_C = 10, 20, 30$ with phase failure sensitivity 40% I_R

VL160/3VL2	63	25 ... 63	$6/8/11 \times I_n$	3VL2706-1□□3□-□□□□	1	1 unit	1CC
	100	40 ... 100	$6/8/11 \times I_n$	3VL2710-1□□3□-□□□□	1	1 unit	1CC
	160	64 ... 160	$6/8/11 \times I_n$	3VL2716-1□□3□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$6/8/11 \times I_n$	3VL3720-1□□3□-□□□□	1	1 unit	1CC
	250	100 ... 250	$6/8/11 \times I_n$	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 terminal²⁾ **6**

VL400/3VL4	315	125 ... 315	$6/8/11 \times I_n$	3VL4731-1□□36-□□□□	1	1 unit	1CC
VL630/3VL5	500	200 ... 500	$6/8/12.5 \times I_n$	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 2/227.
- 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.

Molded Case Circuit Breakers

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

3-pole

2

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.	Price, see page 2/168	PU (UNIT, SET, M)	PS	PG	Article No.	Price, see page 2/168	PU (UNIT, SET, M)	PS	PG
d	Article No. supplement, see page 2/192; www.siemens.com/product?Article No.					d	Article No. supplement, see page 2/192; www.siemens.com/product?Article No.			

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



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



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



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



Molded Case Circuit Breakers

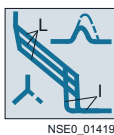
3VL Molded Case Circuit Breakers up to 1600 A, IEC

3-pole

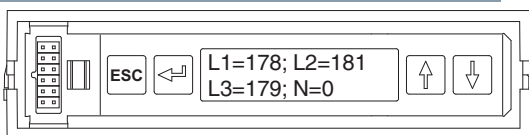
2

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 See "Overview".				
	A	A	A	d	Article No. Article No. supplement, see page 2/192; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

3-pole, fixed-mounted, for motor protection, 63 A to 500 A, Electronic Trip Units LI



NSE0_01419



NSE0_02129

LCD-ETU40M, LI function¹⁾

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	$1.25 \dots 11 \times I_n$	3VL2706-1UP3□-□□□□	1	1 unit	1CC
	100	40 ... 100	$1.25 \dots 11 \times I_n$	3VL2710-1UP3□-□□□□	1	1 unit	1CC
	160	64 ... 160	$1.25 \dots 11 \times I_n$	3VL2716-1UP3□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$1.25 \dots 11 \times I_n$	3VL3720-1UP3□-□□□□	1	1 unit	1CC
	250	100 ... 250	$1.25 \dots 11 \times I_n$	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
- Connection with screw terminal²⁾

3
6

VL400/3VL4	315	128 ... 315	$1.25 \dots 11 \times I_n$	3VL4731-1UP36-□□□□	1	1 unit	1CC
VL630/3VL5	500	250 ... 500	$1.25 \dots 12.5 \times I_n$	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.

Molded Case Circuit Breakers

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

3-pole

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.	Basic price per PU	PU (UNIT, SET, M)	PS	PG	d	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		
	Article No. supplement, see page 2/192; www.siemens.com/product?Article No.						Article No. supplement, see page 2/192; www.siemens.com/product?Article No.						

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						3					
6						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		

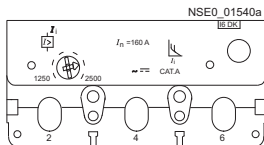
Molded Case Circuit Breakers

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

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 See 'Overview'.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A		d	Article No. Article No. supplement, see page 2/192; www.siemens.com/ product?Article No.				

3-pole, fixed-mounted, for starter protection, 63 A to 500 A, magnetic trip unit I



Starter protection, M, I function¹⁾

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

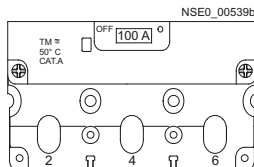
Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal
- Connection with screw terminal²⁾

3
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 trip unit I



Non-automatic molded case circuit breakers³⁾, 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
- Connection with screw terminal not in conjunction with RCD module with 3VL1²⁾

3
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 2/148 to 2/165.

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 2/142.

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.

Molded Case Circuit Breakers

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

3-pole

2

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 2/192; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG	d	Article No. Article No. supplement, see page 2/192; 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
63
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
63
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		

Molded Case Circuit Breakers

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

3-pole

2

Article No. supplement (for complete Article No., see pages 2/148 to 2/165) 3VL.7 ... □□3-.... Trip unit	Breaking capacity	Type VL160¹⁾ 3VL2	VL250¹⁾ 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-".

Molded Case Circuit Breakers

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

3-pole

2

Article No. supplement (for complete Article No., see pages 2/148 to 2/165) 3VL.7 ..-□□3-..... Trip unit	Breaking capacity	Type	VL160 ¹⁾		VL250 ¹⁾		VL400		VL630		VL800		VL1250		VL1600		
		3VL2	3VL3		3VL4		3VL5		3VL6		3VL7		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-".

Molded Case Circuit Breakers

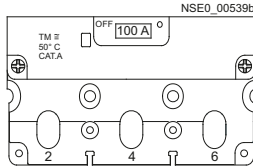
3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

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 <i>See Overview.</i>	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	A	d	(N)	Article No. supplement, see page 2/192, www.siemens.com/product?Article No.				

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



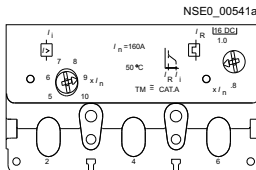
Line protection, TM, LI function

With fixed thermal overcurrent releases, fixed short-circuit releases without overcurrent or 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 module¹⁾ **6**



Line protection, TM, LI function

With adjustable thermal overcurrent releases, adjustable short-circuit releases without overcurrent or 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 terminal¹⁾ **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.

Molded Case Circuit Breakers

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

4-pole

2

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 2/192; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG	d	Article No. Article No. supplement, see page 2/192; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

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		

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3
6

3VL2705-2EJ4□-□□□□	1	1 unit	1CC		
3VL2706-2EJ4□-□□□□	1	1 unit	1CC		
3VL2708-2EJ4□-□□□□	1	1 unit	1CC		
3VL2710-2EJ4□-□□□□	1	1 unit	1CC		
3VL2712-2EJ4□-□□□□	1	1 unit	1CC		
3VL2716-2EJ4□-□□□□	1	1 unit	1CC		
3VL3720-2EJ4□-□□□□	1	1 unit	1CC		
3VL3725-2EJ4□-□□□□	1	1 unit	1CC		

3VL2705-3EJ4□-□□□□	1	1 unit	1CC		
3VL2706-3EJ4□-□□□□	1	1 unit	1CC		
3VL2708-3EJ4□-□□□□	1	1 unit	1CC		
3VL2710-3EJ4□-□□□□	1	1 unit	1CC		
3VL2712-3EJ4□-□□□□	1	1 unit	1CC		
3VL2716-3EJ4□-□□□□	1	1 unit	1CC		
3VL3720-3EJ4□-□□□□	1	1 unit	1CC		
3VL3725-3EJ4□-□□□□	1	1 unit	1CC		

3
63
6

3VL4720-2EJ46-□□□□	1	1 unit	1CC		
3VL4725-2EJ46-□□□□	1	1 unit	1CC		
3VL4731-2EJ46-□□□□	1	1 unit	1CC		
3VL4740-2EJ46-□□□□	1	1 unit	1CC		
3VL5731-2EJ46-□□□□	1	1 unit	1CC		
3VL5740-2EJ46-□□□□	1	1 unit	1CC		
3VL5750-2EJ46-□□□□	1	1 unit	1CC		
3VL5763-2EJ46-□□□□	1	1 unit	1CC		

3VL4720-3EJ46-□□□□	1	1 unit	1CC		
3VL4725-3EJ46-□□□□	1	1 unit	1CC		
3VL4731-3EJ46-□□□□	1	1 unit	1CC		
3VL4740-3EJ46-□□□□	1	1 unit	1CC		
3VL5731-3EJ46-□□□□	1	1 unit	1CC		
3VL5740-3EJ46-□□□□	1	1 unit	1CC		
3VL5750-3EJ46-□□□□	1	1 unit	1CC		
3VL5763-3EJ46-□□□□	1	1 unit	1CC		

Molded Case Circuit Breakers

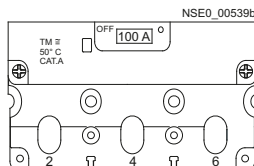
3VL Molded Case Circuit Breakers up to 1600 A, IEC

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".				
	A	A	A	d	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
					Article No. supplement, see page 2/192; www.siemens.com/product?ArticleNo.				

4-pole, fixed-mounted, for line protection, 16 A to 160 A, thermal-magnetic overcurrent releases LIN



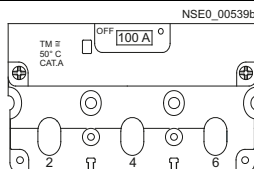
Line protection, TM, LIN function

With fixed thermal overcurrent releases, fixed short-circuit releases with "N" overcurrent and short-circuit release
N protection = 100%

VL160X/3VL1	I_n	I_R	I_i	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	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 module¹⁾ **6**



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	I_n	I_R	I_i	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	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 module¹⁾ **6**

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

Molded Case Circuit Breakers

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

4-pole

2

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.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. supplement, see page 2/192; www.siemens.com/product?Article.No.					d	Article No. supplement, see page 2/192; www.siemens.com/product?Article.No.				

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	--

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6

Molded Case Circuit Breakers

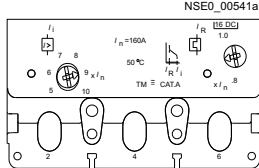
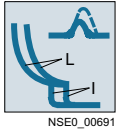
3VL Molded Case Circuit Breakers up to 1600 A, IEC

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".				
	A	A	A	d	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
					Article No. supplement, see page 2/192; www.siemens.com/product?ArticleNo .				

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



Line protection, TM, LIN function

With adjustable thermal overcurrent releases, adjustable short-circuit releases, with "N" overcurrent and short-circuit release
N protection = 100%

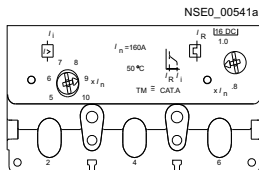
VL160/3VL2	50	40 ... 50	300 ... 600	3VL2705-1EM4□-□□□□	1	1 unit	1CC
	63	50 ... 63	300 ... 600	3VL2706-1EM4□-□□□□	1	1 unit	1CC
	80	63 ... 80	400 ... 800	3VL2708-1EM4□-□□□□	1	1 unit	1CC
	100	80 ... 100	500 ... 1000	3VL2710-1EM4□-□□□□	1	1 unit	1CC
	125	100 ... 125	625 ... 1250	3VL2712-1EM4□-□□□□	1	1 unit	1CC
VL250/3VL3	160	125 ... 160	800 ... 1600	3VL2716-1EM4□-□□□□	1	1 unit	1CC
	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
- Connection with flat screw terminal¹⁾

3
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



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
- Connection with flat screw terminal¹⁾

3
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.

Molded Case Circuit Breakers

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

4-pole

2

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.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		
d	Article No. supplement, see page 2/192; www.siemens.com/product?ArticleNo.						d	Article No. supplement, see page 2/192; www.siemens.com/product?ArticleNo.					

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
63
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
63
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		

Molded Case Circuit Breakers

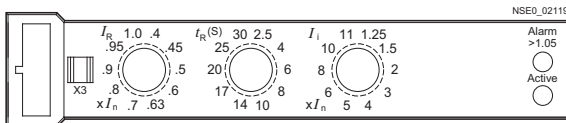
3VL Molded Case Circuit Breakers up to 1600 A, IEC

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".	Article No.	Price, see page 2/190	PU (UNIT, SET, M)	PS	PG
	A	A	A	d		Article No. supplement, see page 2/192; www.siemens.com/product?ArticleNo.				

4-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 without overcurrent and short-circuit release in the 4th pole (N)

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	3VL2706-1□□4□-□□□□	1	1 unit	1CC
	100	40 ... 100	1.25 ... $11 \times I_n$	3VL2710-1□□4□-□□□□	1	1 unit	1CC
	160	64 ... 160	1.25 ... $11 \times I_n$	3VL2716-1□□4□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	3VL3720-1□□4□-□□□□	1	1 unit	1CC
	250	100 ... 250	1.25 ... $11 \times I_n$	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
- Connection with flat screw terminal¹⁾

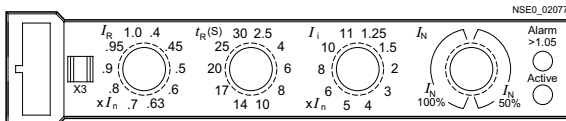
3
6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	3VL4731-1□□46-□□□□	1	1 unit	1CC
	400	160 ... 400	1.25 ... $11 \times I_n$	3VL4740-1□□46-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	3VL5763-1□□46-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	3VL6780-1□□46-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	3VL7710-1□□46-□□□□	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... $11 \times I_n$	3VL7712-1□□46-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	1.25 ... $9 \times I_n$	3VL8716-1□□40-□□□□	1	1 unit	1CC

- Without communication preparation
- With communication preparation

TB
NB

4-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LIN



ETU10, LIN function

With adjustable overcurrent releases, adjustable short-circuit releases with overcurrent or short-circuit release in the 4th pole (N)
N protection = 50/100%

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	3VL2706-1□□4□-□□□□	1	1 unit	1CC
	100	40 ... 100	1.25 ... $11 \times I_n$	3VL2710-1□□4□-□□□□	1	1 unit	1CC
	160	64 ... 160	1.25 ... $11 \times I_n$	3VL2716-1□□4□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	3VL3720-1□□4□-□□□□	1	1 unit	1CC
	250	100 ... 250	1.25 ... $11 \times I_n$	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
- Connection with flat screw terminal¹⁾

3
6¹⁾

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	3VL4731-1□□46-□□□□	1	1 unit	1CC
	400	160 ... 400	1.25 ... $11 \times I_n$	3VL4740-1□□46-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	3VL5763-1□□46-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	3VL6780-1□□46-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	3VL7710-1□□46-□□□□	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... $11 \times I_n$	3VL7712-1□□46-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	1.25 ... $9 \times I_n$	3VL8716-1□□40-□□□□	1	1 unit	1CC

- Without communication preparation
- With communication preparation
- Marine engineering-cert. LRS, DNV, GL and BV (not communication-ready)

TA
NA
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.

Molded Case Circuit Breakers

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

4-pole

2

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.	Price, see page 2/190	PU (UNIT, SET, M)	PS	PG	d	Article No.	Price, see page 2/190	PU (UNIT, SET, M)	PS	PG		
	Article No. supplement, see page 2/192; www.siemens.com/product?Article.No.						Article No. supplement, see page 2/192; www.siemens.com/product?Article.No.						

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

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 2/227.

- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

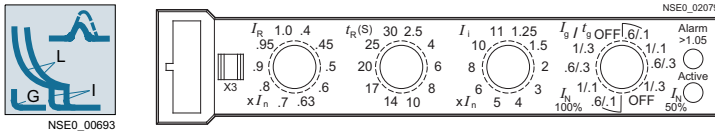
3VL Molded Case Circuit Breakers up to 1600 A, IEC

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	Ground-fault protection "G" I_g	SD	I_{cu} up to 55 kA at 415 V, standard breaking capacity N				
	A	A	A	A	d	Article No.	Price, see page 2/190	PU (UNIT, SET, M)	PS	PG
						Article No. supplement, see page 2/192; www.siemens.com/product?Article No.				

4-pole, fixed-mounted, for line protection, 63 A to 1600 A, Electronic Trip Units LING



ETU12, LING function for 4-wire three-phase systems

With adjustable overcurrent releases, adjustable short-circuit releases vectorial summation current formation, ground-fault delay $t_{G0} = 0.1 \dots 0.3$ 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 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL2706-1□□4□-□□□□	1	1 unit	1CC
	100	40 ... 100	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL2710-1□□4□-□□□□	1	1 unit	1CC
	160	64 ... 160	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL2716-1□□4□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL3720-1□□4□-□□□□	1	1 unit	1CC
	250	100 ... 250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, 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
- Connection with flat screw terminal¹⁾

3
6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL4731-1□□46-□□□□	1	1 unit	1CC
	400	160 ... 400	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL4740-1□□46-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL5763-1□□46-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL6780-1□□46-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL7710-1□□46-□□□□	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... $11 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL7712-1□□46-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	1.25 ... $9 \times I_n$	0.6 ... $1 \times I_n$, OFF	3VL8716-1□□40-□□□□	1	1 unit	1CC

- Without communication preparation
- With communication preparation

TN
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 2/227.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

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

4-pole

2

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 2/192; www.siemens.com/ product?Article No.	Price, see page 2/190	PU (UNIT, SET, M)	PS	PG	d	Article No. Article No. supplement, see page 2/192; www.siemens.com/ product?Article No.	Price, see page 2/190	PU (UNIT, SET, M)	PS	PG

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

Molded Case Circuit Breakers

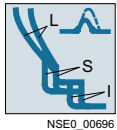
3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

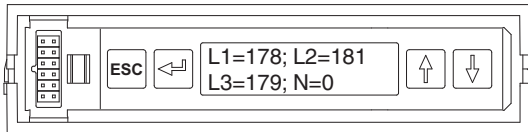
2

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	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"				
	A	A	A	A	d	Article No. Article No. supplement, see page 2/192; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

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 $t_{sd} = 0 \dots 0.5$ s

with overcurrent or short-circuit releases in the 4th pole (N), N protection = 50 ... 100%, OFF

VL160/3VL2	63 ¹⁾ 100 ¹⁾ 160	25 ... 63 40 ... 100 64 ... 160	1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$ 1.5 ... $10 \times I_R$ 1.5 ... $10 \times I_R$	3VL2706-1UJ40-□□□□ 3VL2710-1UJ40-□□□□ 3VL2716-1UJ40-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL250/3VL3	200 250	80 ... 200 100 ... 250	1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$ 1.5 ... $10 \times I_R$	3VL3720-1UJ40-□□□□ 3VL3725-1UJ40-□□□□	1 1	1 unit 1 unit	1CC 1CC

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

- Connection with box terminal
- Connection with flat screw terminal²⁾

3
6

VL400/3VL4	315 400	128 ... 315 160 ... 400	1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$ 1.5 ... $10 \times I_R$	3VL4731-1UJ46-□□□□ 3VL4740-1UJ46-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	1.5 ... $9 \times I_R$	3VL5763-1UJ46-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	1.5 ... $7 \times I_R$	3VL6780-1UJ46-□□□□	1	1 unit	1CC
VL1250/3VL7	1000 1250	400 ... 1000 500 ... 1250	1.25 ... $11 \times I_n$ 1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$ 1.5 ... $10 \times I_R$	3VL7710-1UJ46-□□□□ 3VL7712-1UJ46-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL1600/3VL8 ³⁾	1600	640 ... 1600	1.25 ... $9 \times I_n$	1.5 ... $8 \times I_R$	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.

Molded Case Circuit Breakers

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

4-pole

SD	I_{cu} up to 70 kA at 415 V, high breaking capacity H					SD	I_{cu} up to 100 kA at 415 V, very high breaking capacity L				
	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. supplement, see page 2/192; www.siemens.com/product?Article No.					d	Article No. supplement, see page 2/192; www.siemens.com/product?Article No.				

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
63
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		

Molded Case Circuit Breakers

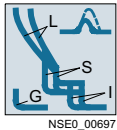
3VL Molded Case Circuit Breakers up to 1600 A, IEC

4-pole

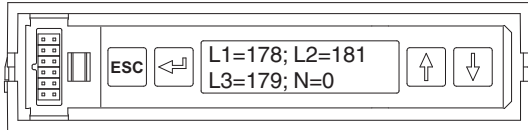
2

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	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)			
	A	A	A	A	A	d	Article No. Article No. supplement, see page 2/192; www.siemens.com/product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

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 $t_g = 0.1 \dots 0.5$ s, short-circuit delay $t_{sd} = 0 \dots 0.5$ s

with overcurrent or short-circuit releases in the 4th pole (N), N protection = 50 ... 100%, OFF

VL160/3VL2	63	25 ... 63	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	0.4 ... $1 \times I_n$	3VL2706-1UN4 □□□□	1	1 unit	1CC
	100	40 ... 100	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	0.4 ... $1 \times I_n$	3VL2710-1UN4 □□□□	1	1 unit	1CC
	160	64 ... 160	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	0.4 ... $1 \times I_n$	3VL2716-1UN4 □□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	0.4 ... $1 \times I_n$	3VL3720-1UN4 □□□□	1	1 unit	1CC
	250	100 ... 250	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	0.4 ... $1 \times I_n$	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
- Connection with flat screw terminal¹⁾

3

6

VL400/3VL4	315	128 ... 315	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	0.4 ... $1 \times I_n$	3VL4731-1UN46 □□□□	1	1 unit	1CC
	400	160 ... 400	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	0.4 ... $1 \times I_n$	3VL4740-1UN46 □□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	1.25 ... $10 \times I_n$	1.5 ... $9 \times I_R$	0.4 ... $1 \times I_n$	3VL5763-1UN46 □□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	1.25 ... $8 \times I_n$	1.5 ... $7 \times I_R$	0.4 ... $1 \times I_n$	3VL6780-1UN46 □□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	0.4 ... $1 \times I_n$	3VL7710-1UN46 □□□□	1	1 unit	1CC
	1250	500 ... 1250	1.25 ... $11 \times I_n$	1.5 ... $10 \times I_R$	0.4 ... $1 \times I_n$	3VL7712-1UN46 □□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	1.25 ... $9 \times I_n$	1.5 ... $8 \times I_R$	0.4 ... $1 \times I_n$	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.

Molded Case Circuit Breakers

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

4-pole

2

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 2/192; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG	d	Article No. Article No. supplement, see page 2/192; www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG

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
63
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		

Molded Case Circuit Breakers

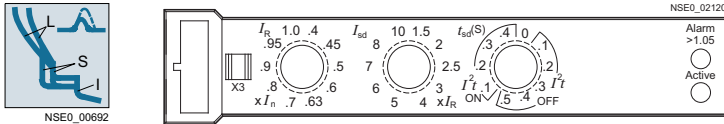
3VL Molded Case Circuit Breakers up to 1600 A, IEC

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	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.	Price, see page 2/190	PU (UNIT, SET, M)	PS	PG
	A	A	A	A	d	(N)	Article No. supplement, see page 2/192; www.siemens.com/product?ArticleNo.				

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



ETU20, LSI function for time-based discrimination

With adjustable overcurrent releases, fixed short-circuit releases, short-circuit delay ($t_{sd} = 0 \dots 0.5$ s) without overcurrent and short-circuit releases in the 4th pole (N)

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL2706-1□□4□-□□□□	1	1 unit	1CC
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL2710-1□□4□-□□□□	1	1 unit	1CC
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL2716-1□□4□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL3720-1□□4□-□□□□	1	1 unit	1CC
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL3725-1□□4□-□□□□	1	1 unit	1CC

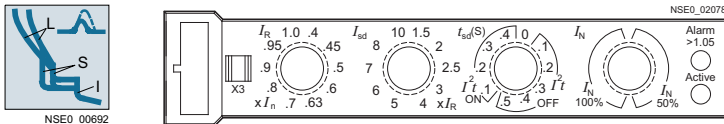
Connection type can be selected by assignment of the 12th position of the Article No.

- Connection with box terminal **3**
- Connection with flat screw terminal¹⁾ **6**

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL4731-1□□46-□□□□	1	1 unit	1CC
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL4740-1□□46-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	3VL5763-1□□46-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	3VL6780-1□□46-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL7710-1□□46-□□□□	1	1 unit	1CC
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL7712-1□□46-□□□□	1	1 unit	1CC
VL1600/3VL8 ¹⁾	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	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



ETU20, LSiN function for time-based discrimination

With adjustable overcurrent releases, fixed short-circuit releases, short-circuit delay ($t_{sd} = 0 \dots 0.5$ s) with overcurrent or short-circuit releases in the 4th pole (N), N protection = 50/100%

VL160/3VL2	63	0.4 ... $1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL2706-1□□4□-□□□□	1	1 unit	1CC
	100	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL2710-1□□4□-□□□□	1	1 unit	1CC
	160	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL2716-1□□4□-□□□□	1	1 unit	1CC
VL250/3VL3	200	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL3720-1□□4□-□□□□	1	1 unit	1CC
	250	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	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 terminal¹⁾ **6**

VL400/3VL4	315	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL4731-1□□46-□□□□	1	1 unit	1CC
	400	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL4740-1□□46-□□□□	1	1 unit	1CC
VL630/3VL5	630	$0.4 \dots 1.0 \times I_n$	$10 \times I_n$	$1.5 \dots 9 \times I_R$	3VL5763-1□□46-□□□□	1	1 unit	1CC
VL800/3VL6	800	$0.4 \dots 1.0 \times I_n$	$8 \times I_n$	$1.5 \dots 7 \times I_R$	3VL6780-1□□46-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL7710-1□□46-□□□□	1	1 unit	1CC
	1250	$0.4 \dots 1.0 \times I_n$	$11 \times I_n$	$1.5 \dots 10 \times I_R$	3VL7712-1□□46-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	$0.4 \dots 1.0 \times I_n$	$9 \times I_n$	$1.5 \dots 8 \times I_R$	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-ready) **LF**

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

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

Communication:

- For accessories, see page 2/227.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

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

4-pole

2

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 2/192; www.siemens.com/ product?Article No.	Price, see page 2/190	PU (UNIT, SET, M)	PS	PG	Article No. Article No. supplement, see page 2/192; www.siemens.com/ product?Article No.	Price, see page 2/190	PU (UNIT, SET, M)	PS	PG

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

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

Molded Case Circuit Breakers

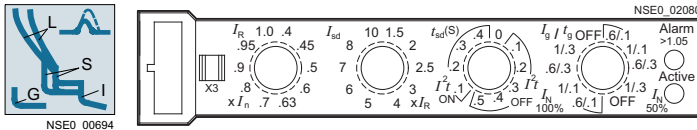
3VL Molded Case Circuit Breakers up to 1600 A, IEC

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	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)			
	A	A	A	A	A	d	Article No. Article No. supplement, see page 2/192; www.siemens.com/product?ArticleNo .	Price, see page 2/190	PU (UNIT, SET, M)	PS	PG

4-pole, fixed-mounted, for line protection - generator protection, 63 A to 1600 A, Electronic Trip Units LSING



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

With adjustable overcurrent releases, adjustable short-circuit releases ground-fault delay $t_g = 0.1 \dots 0.3$ s, ground fault function (G) can be switched off, short-circuit delay $t_{sd} = 0 \dots 0.5$ s with overcurrent or short-circuit releases in the 4th pole (N), N protection = 50/100%

VL160/3VL2	63	25 ... 63	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL2706-1□□4□-□□□□	1	1 unit	1CC
	100	40 ... 100	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL2710-1□□4□-□□□□	1	1 unit	1CC
	160	64 ... 160	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL2716-1□□4□-□□□□	1	1 unit	1CC
VL250/3VL3	200	80 ... 200	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL3720-1□□4□-□□□□	1	1 unit	1CC
	250	100 ... 250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, 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
- Connection with flat screw terminal¹⁾

3
6

VL400/3VL4	315	128 ... 315	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL4731-1□□46-□□□□	1	1 unit	1CC
	400	160 ... 400	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL4740-1□□46-□□□□	1	1 unit	1CC
VL630/3VL5	630	252 ... 630	$10 \times I_n$	$1.5 \dots 9 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL5763-1□□46-□□□□	1	1 unit	1CC
VL800/3VL6	800	320 ... 800	$8 \times I_n$	$1.5 \dots 7 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL6780-1□□46-□□□□	1	1 unit	1CC
VL1250/3VL7	1000	400 ... 1000	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL7710-1□□46-□□□□	1	1 unit	1CC
	1250	500 ... 1250	$11 \times I_n$	$1.5 \dots 10 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL7712-1□□46-□□□□	1	1 unit	1CC
VL1600/3VL8 ²⁾	1600	640 ... 1600	$9 \times I_n$	$1.5 \dots 8 \times I_R$	$0.6 \dots 1 \times I_n$, OFF	3VL8716-1□□40-□□□□	1	1 unit	1CC

- Without communication preparation
- With communication preparation

TH
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 2/227.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

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

4-pole

2

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 2/192; www.siemens.com/ product?Article No.	Price, see page 2/190	PU (UNIT, SET, M)	PS	PG

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

Molded Case Circuit Breakers

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

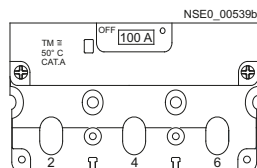
4-pole

2

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 See "Overview".	Basic price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	d	Article No. Article No. supplement, see page 2/192; www.siemens.com/product?Article No.				

N

4-pole, fixed-mounted, for safe disconnection, 100 A to 1600 A, magnetic release I



Non-automatic molded case circuit breakers¹⁾, I function

Without thermal overcurrent release, with fixed short-circuit release (for intrinsic protection only)
without thermal overcurrent or short-circuit release in the 4th pole (N)

VL160X/3VL1	100 160	1800 1800	3VL1710-1EE4 □□□□ 3VL1716-1EE4 □□□□	1 1	1 unit 1 unit	1CC 1CC
VL160/3VL2	100 160	2500 2500	3VL2710-1EE4 □□□□ 3VL2716-1EE4 □□□□	1 1	1 unit 1 unit	1CC 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

- Connection with screw terminal not in conjunction with RCD module with 3VL¹²⁾

3

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.

Molded Case Circuit Breakers

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

4-pole

2

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.	Basic price per PU	PU (UNIT, SET, M)	PS	PG	d	Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG		
	Article No. supplement, see page 2/192; www.siemens.com/product?Article No.						Article No. supplement, see page 2/192; www.siemens.com/product?Article No.						

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
63
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

Molded Case Circuit Breakers

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

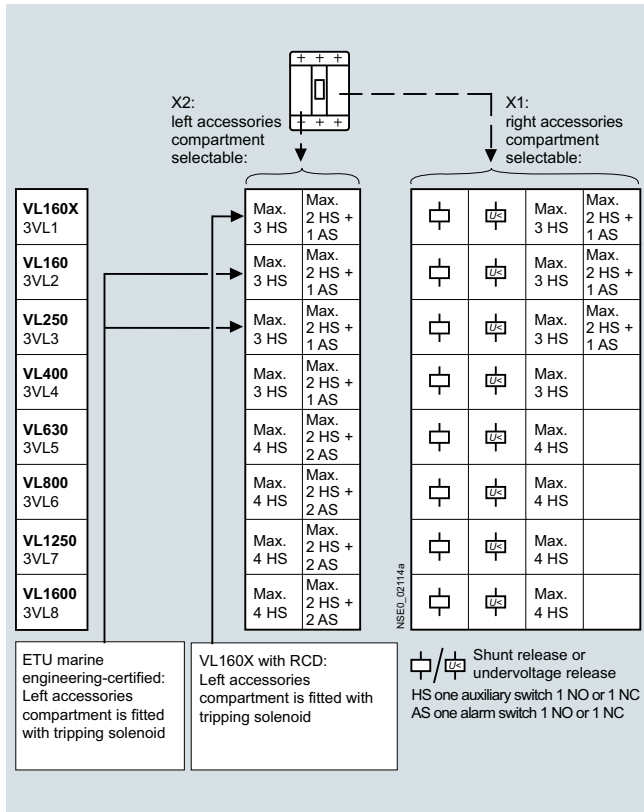
4-pole

Article No. supplement (for complete Article No., see pages 2/176 to 2/187) 3VL.7.. - .□□4.-....	Breaking capacity	Type VL160¹⁾ 3VL2	VL250¹⁾		VL400		VL630	VL800	VL1250	VL1600			
			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		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	NB		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	TA		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	NA		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU10	LA		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU12	TN		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU12	NN		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU40	UJ		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU42	UN		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	TE		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	NE		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	TF		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	NF		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU20	LF		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU22	TH		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ETU22	NH		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

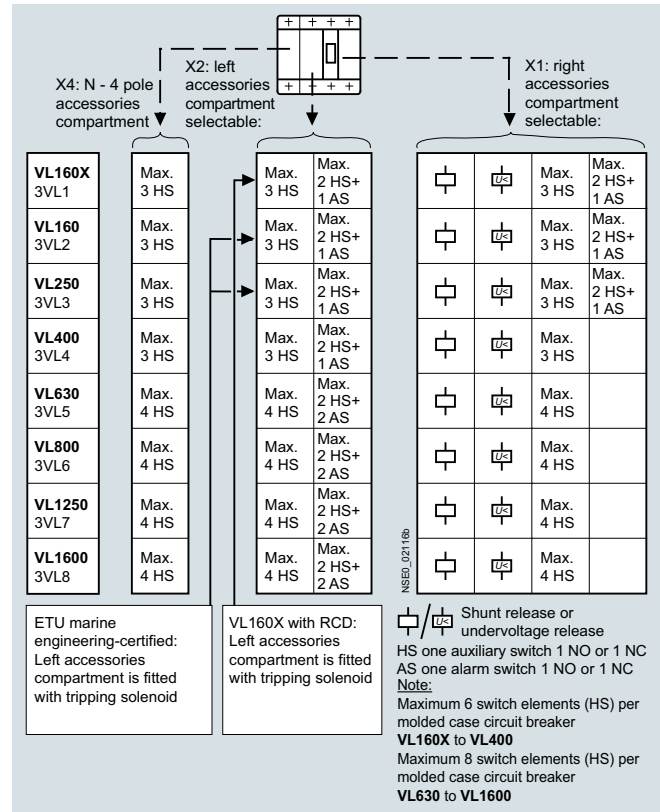
¹⁾ The basic price is reduced when the molded case circuit breaker is ordered with a flat screw terminal ".36-".

Equipment options for the insulated accessory compartments in the 3VL molded case circuit breakers

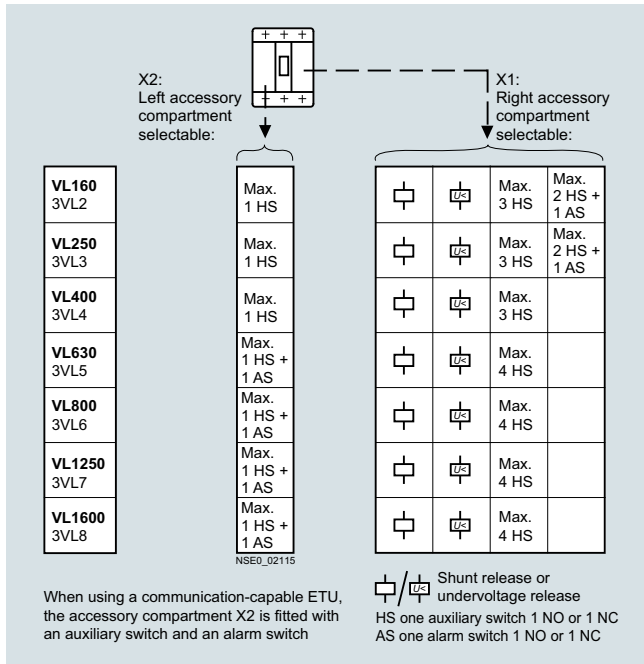
3-pole circuit breakers without communication preparation



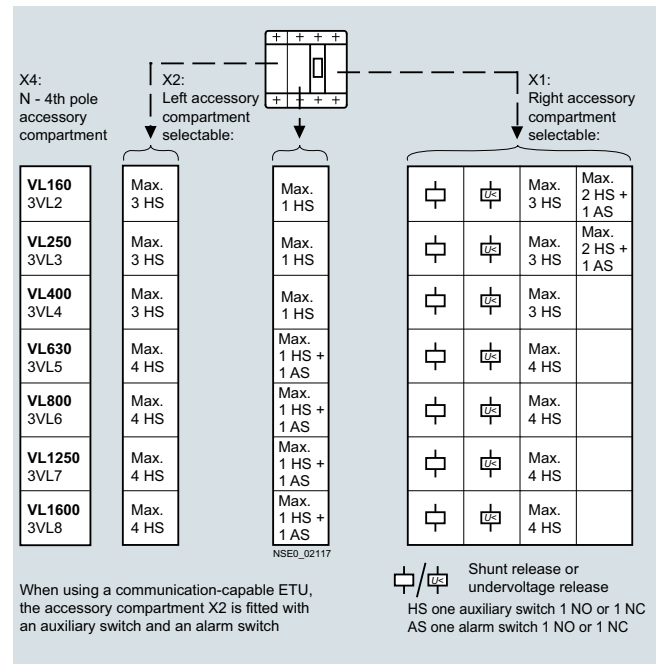
4-pole circuit breakers without communication preparation



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.

Molded Case Circuit Breakers

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

Options

1st Article No. supplement: Undervoltage or shunt release, wiring directly to accessories

Rated control supply voltage U_s /frequency	Article No. supplement	Circuit breakers Type	Additional price
50/60 Hz AC DC	3VL-.....- <input type="checkbox"/> <input type="checkbox"/> ..	VL160X to VL400/ 3VL1 to 3VL4	VL630 to VL1600/ 3VL5 to 3VL8
		Additional price	Additional price
3- or 4-pole			
Without auxiliary releases		0 A	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	Additional price
HS = 1 NO or 1 NC contact block AS = 1 NO contact block	3VL-.....- .. <input type="checkbox"/> <input type="checkbox"/>	VL160X to VL400 ¹⁾ / 3VL1 to 3VL4	VL630 to VL1600/ 3VL5 to 3VL8
		Additional price	Additional price
Without auxiliary/alarm switches		A 0	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.

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) <input type="checkbox"/> <input type="checkbox"/> + . . . + . . .	Additional price
---	---	------------------

Code for further versions -Z

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/T92). Option not available for factory-fitted motorized operating mechanisms.	For VL160X to VL1600 (3VL1 to 3VL8)	L 0 2		✓
Prewired connecting cables for motorized operating mechanisms with stored energy mechanisms (SEO) Connecting cables on the circuit breaker for motorized operating mechanisms (3 m long). On VL160X to VL400 brought out at the top. On VL630 and VL800 brought out on the right. Option "L12" can only be selected in combination with motorized operating mechanisms (order codes "M24", "M42", "M60", "M11" and "M22").	For VL160X to VL800 (3VL1 to 3VL6)	L 1 2		✓
Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (24 V DC) 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) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6) VL1250, VL1600 (3VL7, 3VL8) ¹⁾	M 2 4		✓ ✓ ✓ ✓
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) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6) VL1250, VL1600 (3VL7, 3VL8) ¹⁾	M 4 2		✓ ✓ ✓ ✓
Motorized operating mechanisms with stored energy mechanisms for synchronization tasks (60 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) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6) VL1250, VL1600 (3VL7, 3VL8) ¹⁾	M 6 0		✓ ✓ ✓ ✓
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) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6) VL1250, VL1600 (3VL7, 3VL8) ¹⁾	M 1 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) VL400 (3VL4) VL630, VL800 (3VL5, 3VL6) VL1250, VL1600 (3VL7, 3VL8) ¹⁾	M 2 2		✓ ✓ ✓ ✓

¹⁾ The motorized operating mechanism for VL1250 and VL1600 (3VL7 and 3VL8) has no stored energy mechanism and is also unsuitable for synchronization tasks.

Molded Case Circuit Breakers

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

Options

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)

+ . . . + . . .

Additional price

Code for further versions -Z

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)		✓

Selection and ordering data

Wiring directly to accessories	SD	For VL160X to VL400 (3VL1 to 3VL4)	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?ArticleNo.	Price per PU		

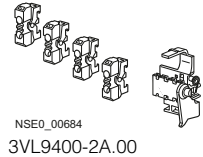
Auxiliary switches and auxiliary releases

3- or 4-pole

For retrofitting (for equipment options, see Technical Information at www.siemens.com/lowvoltage/product-support.)

Auxiliary switches (HS) and alarm switches (AS)

For retrofitting



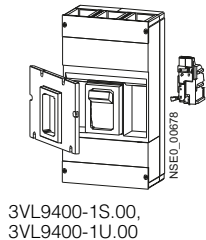
Assembly kits	Mounting side				
2 HS (1 NO + 1 NC)	N, left ¹⁾ , right	3VL9400-2AB00	1	1 unit	1CC
4 HS (2 NO + 2 NC)	N, left ¹⁾ , right	--			
2 HS (1 NC + 1 NO)	left ¹⁾ , right ³⁾	3VL9400-2AD00	1	1 unit	1CC
+ 1 AS (1 NO) (assembly kit)	left ¹⁾	--			

Additional auxiliary switch/alarm switch combinations

See page 2/197.

Shunt releases²⁾

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 (3SB3 for ON/OFF position) not floating (see Technical Information at www.siemens.com/lowvoltage/product-support).
- 3) In the case of VL400 (3VL4):
Unsuitable for mounting in the right accessory compartment.
The 3VL9400-2AB00 assembly kit with auxiliary switches only is recommended.

Molded Case Circuit Breakers

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

Accessories and spare parts

2

Wiring directly to accessories	SD	For VL630 to VL1600 (3VL5 to 3VL8)	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.	Price per PU		

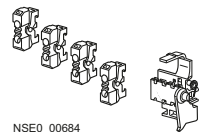
Auxiliary switches and auxiliary releases

3- or 4-pole

For retrofitting (for equipment options, see Technical Information at www.siemens.com/lowvoltage/product-support.)

Auxiliary switches (HS) and alarm switches (AS)

For retrofitting



NSE0_00684
3VL9800-2A.00

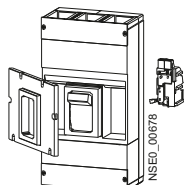
Assembly kits	Mounting side				
2 HS (1 NO + 1 NC)	N, left, right	--			
4 HS (2 NO + 2 NC)	N, left, right	3VL9800-2AC00	1	1 unit	1CC
2 HS (1 NC + 1 NO) + 1 AS (1 NO) (assembly kit)	Left, right Left	3VL9800-2AE00	1	1 unit	1CC

Additional auxiliary switch/alarm switch combinations

[See page 2/197.](#)

Shunt releases ¹⁾

For retrofitting



3VL9800-1S.00,
3VL9800-1U.00

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

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 (3SB3 for ON/OFF position) not floating (see Technical Information at www.siemens.com/lowvoltage/product-support).

Molded Case Circuit Breakers

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

Accessories and spare parts

For circuit breakers	Maximum combination of auxiliary switches (HS) and alarm switches (AS)	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Type		d					
3SB adapters and 3SB contact blocks							
Mounting adapters for auxiliary and alarm switch combinations							
For installation in the N pole of the circuit breaker							
VL160X, VL160, VL250, VL400 (3VL1 to 3VL4)	Up to 3 HS ¹⁾ 2 HS + 1 AS ¹⁾²⁾		3VL9400-2AH00 --		1	1 unit	1CC
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS 2 HS + 2 AS		3VL9816-2AL00 --		1	1 unit	1CC
For installation in the left pole of the circuit breaker							
VL160X, VL160, VL250, VL400 (3VL1 to 3VL4)	Up to 3 HS ¹⁾ 2 HS + 1 AS ¹⁾²⁾		3VL9400-2AH00 3VL9400-2AJ10		1	1 unit	1CC
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS 2 HS + 2 AS		3VL9816-2AL00 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⁾ 2 HS + 1 AS ¹⁾²⁾		3VL9400-2AH00 3VL9400-2AJ20		1	1 unit	1CC
VL630, VL800, VL1250, VL1600 (3VL5 to 3VL8)	Up to 4 HS 2 HS + 2 AS		3VL9816-2AL00 --		1	1 unit	1CC

¹⁾ Except for installation in the left pole for VL160X (3VL1) molded case circuit breakers with RCD module.




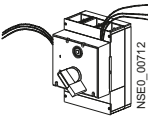
²⁾ In the case of VL400: 3VL9400-2AJ20 unsuitable for mounting in the right accessory compartment.

Molded Case Circuit Breakers

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

Accessories and spare parts

2

Version	SD	For VL160X to VL250 (3VL1 to 3VL3)	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.	Price per PU		
Manual operating mechanisms					
3- or 4-pole					
Front-operated rotary operating mechanisms¹⁾					
	For direct mounting on the circuit breaker, without leading auxiliary switch, degree of protection IP30 ²⁾ , black, max. 3 padlocks				
3VL9.00-3H.00					
EMERGENCY-STOP version					
Red knob, yellow indicator plate					
For safety locks for installation by the customer, see pages 2/220 to 2/224 .					
3VL9300-3HA00					
1 1 unit 1CC					
3VL9300-3HC00					
1 1 unit 1CC					
	Front-operated rotary operating mechanisms with shaft stub, without knob¹⁾				
3VL9300-3HE00	Without leading auxiliary switch, for auxiliary switches, see below .				
1 1 unit 1CC					
	Door-coupling rotary operating mechanisms, complete¹⁾				
3VL9.00-3H.05	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 x 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					
EMERGENCY-STOP version					
Red knob, yellow indicator plate, without leading auxiliary switch					
For safety locks for installation by the customer, see pages 2/220 to 2/224 .					
3VL9300-3HF05					
1 1 unit 1CC					
3VL9300-3HG05					
1 1 unit 1CC					
	Leading auxiliary switches for installation in a front-operated rotary operating mechanism, door-coupling rotary operating mechanism or side panel rotary operating mechanism				
3VL9.00-3A.10	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, complete¹⁾					
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, complete¹⁾					
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					
- For 6 mm shaft					
3VL9300-3HP02					
1 1 unit 1CC					
3VL9300-3HP00					
1 1 unit 1CC					

Additional accessories and components for door-coupling rotary operating mechanism, [see 2/203 and 2/205](#).

¹⁾ Not possible on VL160X with RCD module.

²⁾ IP40 with additional masking frame mounted on the door cut-out.

Molded Case Circuit Breakers

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

Accessories and spare parts




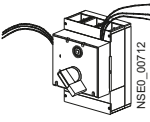
SD	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL630 (3VL5)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.					d	Article No. www.siemens.com/product?Article No.				
	3VL9400-3HA00		1	1 unit	1CC		3VL9600-3HA00		1	1 unit	1CC
	3VL9400-3HC00		1	1 unit	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
	--						--				

Molded Case Circuit Breakers

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

Accessories and spare parts

2

Version	SD	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article No.				
Manual operating mechanisms						
3- or 4-pole						
		Front-operated rotary operating mechanisms For direct mounting on the circuit breaker, without leading auxiliary switch, degree of protection IP30 ¹⁾ , <u>black</u> , max. 3 padlocks EMERGENCY-STOP version Red knob, yellow indicator plate For safety locks for installation by the customer, see pages 2/220 to 2/224.				
3VL9.00-3H.00						
		Front-operated rotary operating mechanisms with shaft stub, without knob Without leading auxiliary switch, for auxiliary switches, see below.				
3VL9.00-3HE00						
		Door-coupling rotary operating mechanisms, complete installation in doors and covers Degree of protection IP65, including handle, <u>ti-gray</u> , with masking plate, indicator plate, detachable door coupling (die cast, for VL800 (3VL6) with reduced tolerance compensation), extension shaft (8 × 8 mm for VL800 (3VL6), 12 × 12 mm for VL1250 (3VL7) and VL1600 (3VL8)), length 300 mm and front-operated rotary operating mechanism for the respective circuit breaker, lockable with max. 3 padlocks, with door interlocking EMERGENCY-STOP version Red knob, yellow indicator plate without leading auxiliary switch For safety locks for installation by the customer, see pages 2/220 to 2/224.				
3VL9.00-3H.05						
		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 2 changeover contacts with 1.5 m long cables "ON after OFF" Leading auxiliary switches when switching off 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables				
3VL9.00-3A.10						
		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				

Additional accessories and components for door-coupling rotary operating mechanism, see 2/203 and 2/205.

¹⁾ IP40 with additional masking frame mounted on the door cut-out.

Molded Case Circuit Breakers

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

Accessories and spare parts

SD	For VL1250 to VL1600 (3VL7 and 3VL8)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.				

3VL9800-3HA00	1	1 unit	1CC
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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
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Molded Case Circuit Breakers

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

Accessories and spare parts

2

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

Motorized operating mechanisms

3- or 4-pole

Motorized operating mechanisms with stored energy mechanisms (SEO) for synchronization tasks¹⁾²⁾

Degree of protection IP30, with locking device for 3 padlocks



3VL9.00-3M.00

50/60 Hz V AC	V DC				
--	24				
42 ... 48	42 ... 48				
60	60				
110 ... 127	110 ... 127				
220 ... 250	220 ... 250				

For VL160X to VL250
(3VL1 to 3VL3)

3VL9300-3MJ00	1	1 unit	1CC
3VL9300-3ML00	1	1 unit	1CC
3VL9300-3MS00	1	1 unit	1CC
3VL9300-3MN00	1	1 unit	1CC
3VL9300-3MQ00	1	1 unit	1CC

50/60 Hz V AC	V DC				
--	24				
42 ... 48	42 ... 48				
60	60				
110 ... 127	110 ... 127				
220 ... 250	220 ... 250				

For VL400 (3VL4)

3VL9400-3MJ00	1	1 unit	1CC
3VL9400-3ML00	1	1 unit	1CC
3VL9400-3MS00	1	1 unit	1CC
3VL9400-3MN00	1	1 unit	1CC
3VL9400-3MQ00	1	1 unit	1CC

50/60 Hz V AC	V DC				
--	24				
42 ... 48	42 ... 48				
60	60				
110 ... 127	110 ... 127				
220 ... 250	220 ... 250				

For VL630 and VL800
(3VL5 and 3VL6)

3VL9600-3MJ00	1	1 unit	1CC
3VL9600-3ML00	1	1 unit	1CC
3VL9600-3MS00	1	1 unit	1CC
3VL9600-3MN00	1	1 unit	1CC
3VL9600-3MQ00	1	1 unit	1CC

Motorized operating mechanisms (MO)¹⁾

Degree of protection IP30, with locking device for 3 padlocks



3VL9.00-3M.10

50/60 Hz V AC	V DC				
--	24				
42 ... 60	42 ... 60				
110 ... 127	110 ... 127				
220 ... 250	220 ... 250				

For VL160X (3VL1)

3VL9100-3MA10	1	1 unit	1CC
3VL9100-3MC10	1	1 unit	1CC
3VL9100-3MD10	1	1 unit	1CC
3VL9100-3ME10	1	1 unit	1CC

50/60 Hz V AC	V DC				
--	24				
42 ... 60	42 ... 60				
110 ... 127	110 ... 127				
220 ... 250	220 ... 250				

For VL160 and VL250
(3VL2 and 3VL3)

3VL9300-3MA10	1	1 unit	1CC
3VL9300-3MC10	1	1 unit	1CC
3VL9300-3MD10	1	1 unit	1CC
3VL9300-3ME10	1	1 unit	1CC

50/60 Hz V AC	V DC				
--	24				
42 ... 60	42 ... 60				
110 ... 127	110 ... 127				
220 ... 250	220 ... 250				

For VL400 (3VL4)

3VL9400-3MA10	1	1 unit	1CC
3VL9400-3MC10	1	1 unit	1CC
3VL9400-3MD10	1	1 unit	1CC
3VL9400-3ME10	1	1 unit	1CC

50/60 Hz V AC	V DC				
--	24				
42 ... 60	42 ... 60				
110 ... 127	110 ... 127				
220 ... 250	220 ... 250				

For VL630 and VL800
(3VL5 and 3VL6)

3VL9600-3MA10	1	1 unit	1CC
3VL9600-3MC10	1	1 unit	1CC
3VL9600-3MD10	1	1 unit	1CC
3VL9600-3ME10	1	1 unit	1CC

50/60 Hz V AC	V DC				
--	24				
42 ... 48	42 ... 48				
60	60				
110 ... 127	110 ... 127				
220 ... 250	220 ... 250				

For VL1250 and VL1600²⁾
(3VL7 and 3VL8)

3VL9800-3MJ00	1	1 unit	1CC
3VL9800-3ML00	1	1 unit	1CC
3VL9800-3MS00	1	1 unit	1CC
3VL9800-3MN00	1	1 unit	1CC
3VL9800-3MQ00	1	1 unit	1CC

Toggle lever extension

Toggle lever extension

- For VL400 (3VL4)
- For VL630 and VL800 (3VL5 and 3VL6)
- For VL1250 and VL1600 (3VL7 and 3VL8)

For VL400 to VL1600
(3VL4 to 3VL8)

3VL9400-3HN00	1	1 unit	1CC
3VL9600-3HN00	1	1 unit	1CC
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 2/220 to 2/224.

Molded Case Circuit Breakers

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

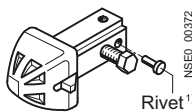
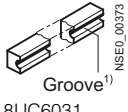
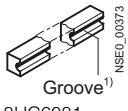
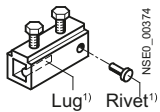

Accessories and spare parts

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 x mm	d			Article No. www.siemens.com/product?ArticleNo.	Price per PU			
Individual parts for 8UC door-coupling rotary operating mechanisms²⁾										
	Handles with masking plate (including flat gasket and fixing screws)									
8UC7110-6BD	3VL1, 3VL2, 3VL3	8UC71	1	6 x 6 or 8 x 8	Standard EMERGENCY-STOP	8UC7110-6BD 8UC7120-8BD		1 1	1 unit 1 unit	1CL 1CL
	3VL4, 3VL5, 3VL6	8UC72	2	8 x 8	Standard EMERGENCY-STOP	8UC7210-6BD 8UC7220-8BD		1 1	1 unit 1 unit	1CL 1CL
8UC7210-6BD	3VL7, 3VL8	8UC73	3	12 x 12	Standard EMERGENCY-STOP	8UC7310-6BD 8UC7320-8BD		1 1	1 unit 1 unit	1CL 1CL
										
8UC7310-6BD										

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.

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 x mm	d	Article No. www.siemens.com/product?ArticleNo.	Price per PU			
Individual parts for 8UC door-coupling rotary operating mechanisms							
	Coupling drivers for 3VL						
8UC6014	8UC71 (plastic) 8UC71/8UC72 ²⁾ (die cast) 8UC73/74 (die cast)		6 x 6 8 x 8 12 x 12	8UC7011-2AA 8UC6017-2AA 8UC6014	1 1 1	1 unit 1 unit 1 unit	1CL 1CL 1CL
	Extension shafts 300 mm long						
8UC6031	8UC71 8UC71/8UC72 8UC73 8UC73/74		6 x 6 8 x 8 10 x 10 12 x 12	8UC6031 8UC6032 8UC6033 8UC6034	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CL 1CL 1CL 1CL
	Extension shafts 600 mm long						
8UC6081	8UC71 8UC71/8UC72 8UC73 8UC73/74		6 x 6 8 x 8 10 x 10 12 x 12	8UC6081 8UC6082 8UC6083 8UC6084	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CL 1CL 1CL 1CL
	Shaft couplings						
8UC6021 to 8UC6024	8UC71 8UC72 8UC73 8UC73/74		6 x 6 8 x 8 10 x 10 12 x 12	8UC6021 8UC6022 8UC6023 8UC6024	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CL 1CL 1CL 1CL
	Reducers						
8UC7058	8UC71 8UC72		8 x 8 to 6 x 6 12 x 12 to 8 x 8	8UC7058 8UC7050	1 1	1 unit 1 unit	1CL 1CL

¹⁾ Non-interchangeability features.

²⁾ Shortened coupling driver with reduced tolerance compensation.

Molded Case Circuit Breakers

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

Accessories and spare parts

2

Switching devices	Rated current	Cross-section of the actuating shaft	Torque	Rotary operating mechanisms	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		

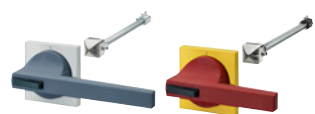
(Supplied with door-coupling rotary operating mechanism, complete 3VL9 300-3H.05)

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 2/198 to 2/201.

Molded Case Circuit Breakers

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

Accessories and spare parts

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	d	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	
						Article No.	Article No.	Article No.	Article No.	
Standard EMERGENCY-STOP (Coupling driver made of plastic)		8UC7111-6BD15 8UC7121-8BD15		1	1 unit	1CL	8UC7110-6BD	□ 6 mm 8UC7011-2AA	□ 6 mm 8UC6031	□ 8 mm by 6 mm 8UC7058
				1	1 unit	1CL	8UC7120-8BD	8UC7011-2AA	8UC6031	8UC7058
Standard EMERGENCY-STOP (Die cast coupling driver with reduced tolerance compensation)		8UC7162-6BD22 8UC7172-8BD22		1	1 unit	1CL	8UC7110-6BD	□ 8 mm 8UC6017-2AA	□ 8 mm 8UC6032	□ 8 mm by 8 mm 8UC6022
				1	1 unit	1CL	8UC7120-8BD	8UC6017-2AA	8UC6032	8UC6022
Standard EMERGENCY-STOP (Die cast coupling driver with reduced tolerance compensation)		8UC7262-6BD26 8UC7262-8BD26		1	1 unit	1CL	8UC7210-6BD	□ 8 mm 8UC6017-2AA	□ 8 mm 8UC6032	□ 12 mm by 8 mm 8UC7050
				1	1 unit	1CL	8UC7220-8BD	8UC6017-2AA	8UC6032	8UC7050
Standard EMERGENCY-STOP (Die cast coupling driver)		8UC7314-6BD44 8UC7324-8BD44		1	1 unit	1CL	8UC7310-6BD	□ 12 mm 8UC6014	□ 12 mm 8UC6034	□ 12 mm by 12 mm 8UC6024
				1	1 unit	1CL	8UC7320-8BD	8UC6014	8UC6034	8UC6024

Molded Case Circuit Breakers

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

Accessories and spare parts

2

Version	SD	For VL160X (3VL1)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article No.				
Plug-in versions/withdrawable versions						
3- or 4-pole						
Plug-in base assembly kits						
Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin						
Rear connections						
3-pole		3VL9100-4PA30		1	1 unit	1CC
3-pole with RCD module		3VL9100-4PB30		1	1 unit	1CC
4-pole		3VL9100-4PA40		1	1 unit	1CC
4-pole with RCD module		3VL9100-4PB40		1	1 unit	1CC
90° angle connecting adapters						
For rear connection, 3-pole		3VL9300-4PE30		1	1 unit	1CC
For rear connection, 4-pole		3VL9300-4PE40		1	1 unit	1CC
Front connections						
3-pole		3VL9100-4PC30		1	1 unit	1CC
3-pole with RCD module		3VL9100-4PD30		1	1 unit	1CC
4-pole		3VL9100-4PC40		1	1 unit	1CC
4-pole with RCD module		3VL9100-4PD40		1	1 unit	1CC
Withdrawable version assembly kits						
Upgrade of the plug-in base assembly kit to						
Withdrawable version	3-pole	--				
including side panels and racking mechanism.	3-pole with RCD	--				
	4-pole	--				
	4-pole with RCD	--				
Withdrawable versions						
Same as plug-in base assembly kit, with additional side panels and racking mechanism						
Rear connections						
3-pole		--				
3-pole with RCD module		--				
4-pole		--				
4-pole with RCD module		--				
Front connections						
3-pole		--				
3-pole with RCD module		--				
4-pole		--				
4-pole with RCD module		--				
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
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



3VL9.00-4PA30



3VL9.00-4WA30



3VL9000-4WL00

¹⁾ It is recommended to use a maximum of 2 auxiliary circuit plug-in systems per circuit breaker (16 terminals).

Molded Case Circuit Breakers

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

Accessories and spare parts









SD	For VL160 (3VL2)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.					d	Article No. www.siemens.com/product?Article No.				
	3VL9200-4PA30		1	1 unit	1CC		3VL9300-4PA30		1	1 unit	1CC
	3VL9200-4PB30		1	1 unit	1CC		3VL9300-4PB30		1	1 unit	1CC
	3VL9200-4PA40		1	1 unit	1CC		3VL9300-4PA40		1	1 unit	1CC
	3VL9200-4PB40		1	1 unit	1CC		3VL9300-4PB40		1	1 unit	1CC
	3VL9300-4PE30		1	1 unit	1CC		3VL9300-4PE30		1	1 unit	1CC
	3VL9300-4PE40		1	1 unit	1CC		3VL9300-4PE40		1	1 unit	1CC
	3VL9200-4PC30		1	1 unit	1CC		3VL9300-4PC30		1	1 unit	1CC
	3VL9200-4PD30		1	1 unit	1CC		3VL9300-4PD30		1	1 unit	1CC
	3VL9200-4PC40		1	1 unit	1CC		3VL9300-4PC40		1	1 unit	1CC
	3VL9200-4PD40		1	1 unit	1CC		3VL9300-4PD40		1	1 unit	1CC
	3VL9300-4WF30		1	1 unit	1CC		3VL9300-4WF30		1	1 unit	1CC
	3VL9300-4WG30		1	1 unit	1CC		3VL9300-4WG30		1	1 unit	1CC
	3VL9300-4WF40		1	1 unit	1CC		3VL9300-4WF40		1	1 unit	1CC
	3VL9300-4WG40		1	1 unit	1CC		3VL9300-4WG40		1	1 unit	1CC
	3VL9200-4WA30		1	1 unit	1CC		3VL9300-4WA30		1	1 unit	1CC
	3VL9200-4WB30		1	1 unit	1CC		3VL9300-4WB30		1	1 unit	1CC
	3VL9200-4WA40		1	1 unit	1CC		3VL9300-4WA40		1	1 unit	1CC
	3VL9200-4WB40		1	1 unit	1CC		3VL9300-4WB40		1	1 unit	1CC
	3VL9200-4WC30		1	1 unit	1CC		3VL9300-4WC30		1	1 unit	1CC
	3VL9200-4WD30		1	1 unit	1CC		3VL9300-4WD30		1	1 unit	1CC
	3VL9200-4WC40		1	1 unit	1CC		3VL9300-4WC40		1	1 unit	1CC
	3VL9200-4WD40		1	1 unit	1CC		3VL9300-4WD40		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

Molded Case Circuit Breakers

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

Accessories and spare parts

2

Version	SD	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article No.				
Plug-in versions/withdrawable versions						
3- or 4-pole						
Plug-in base assembly kits						
Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin						
Rear connections						
3-pole						
3-pole with RCD module						
4-pole						
4-pole with RCD module						
 3VL9.00-4PA30						
90° angle connecting adapters						
For rear connection, 3-pole						
For rear connection, 4-pole						
Front connections						
3-pole						
3-pole with RCD module						
4-pole						
4-pole with RCD module						
 3VL9.00-4WA30						
Withdrawable version assembly kits						
Upgrade of the plug-in base assembly kit to						
Withdrawable version including side panels and racking mechanism.						
3-pole						
3-pole with RCD						
4-pole						
4-pole with RCD						
 3VL9.00-4WA30						
Withdrawable versions						
Same as plug-in base assembly kit, with additional side panels and racking mechanism						
Rear connections³⁾						
3-pole						
3-pole with RCD module						
4-pole						
4-pole with RCD module						
Front connections						
3-pole						
3-pole with RCD module						
4-pole						
4-pole with RCD module						
 3VL9.00-4WA30						
Blade contacts						
As replacement for converting fixed-mounted circuit breakers into plug-in/withdrawable circuit breakers, including trip pin						
1 set = 6 units						
3-pole						
1 set = 8 units						
4-pole						
 3VL9.00-4WA30						
Trip pins and springs						
As replacement for plug-in/withdrawable circuit breaker						
 3VL9.00-4WA30						
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)						
8 terminals						
 3VL9.00-4WA30						
Position signaling switches						
(connected/disconnected position)						
For plug-in/withdrawable base, 1 changeover contact, max. 2 signaling switches possible						
 3VL9.00-4WA30						

3VL9000-4WL00

1) For 3-pole applications please use 4-pole withdrawable version with 4-pole RCD module and 4-pole circuit breaker.

2) It is recommended to use a maximum of 3 auxiliary circuit plug-in systems per circuit breaker (24 terminals).

3) With VL800 (3VL6) to VL1600 (3VL8) as vertical connection.

Molded Case Circuit Breakers

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

Accessories and spare parts




SD	For VL630 (3VL5)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.					d	Article No. www.siemens.com/product?Article No.				
	3VL9500-4PA30		1	1 unit	1CC		--				
	--						--				
	3VL9500-4PA40		1	1 unit	1CC		--				
	--						--				
	--						--				
	--						--				
	3VL9500-4PC30		1	1 unit	1CC		--				
	--						--				
	3VL9500-4PC40		1	1 unit	1CC		--				
	--						--				
	3VL9500-4WF30		1	1 unit	1CC		--				
	--						--				
	3VL9500-4WF40		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

Molded Case Circuit Breakers

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

Accessories and spare parts

2

Version	SD	For VL1250 (3VL7)	Price per PU	PU (UNIT, SET, M)	PS	PG	
	d	Article No. www.siemens.com/product?Article No.					
Plug-in versions/withdrawable versions							
 <p>3VL9.00-4PA30</p>	3- or 4-pole						
	Plug-in base assembly kits						
	Base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin						
	Rear connections						
		3-pole	--				
		3-pole with RCD module	--				
		4-pole	--				
		4-pole with RCD module	--				
		90° angle connecting adapters					
		For rear connection, 3-pole	--				
		For rear connection, 4-pole	--				
		Front connections					
		3-pole	--				
		3-pole with RCD module	--				
		4-pole	--				
		4-pole with RCD module	--				
 <p>3VL9.00-4WA30</p>	Withdrawable version assembly kits						
	Upgrade of the plug-in base assembly kit to						
		Withdrawable version	3-pole	--			
		including side panels and racking mechanism.	3-pole with RCD	--			
			4-pole	--			
			4-pole with RCD	--			
	Withdrawable versions						
	Same as plug-in base assembly kit, with additional side panels and racking mechanism						
	Rear connections¹⁾						
			3-pole	3VL9800-4WA30	1	1 unit	1CC
		3-pole with RCD module	--				
		4-pole	3VL9800-4WA40	1	1 unit	1CC	
		4-pole with RCD module	--				
Front connections							
		3-pole	3VL9800-4WC30	1	1 unit	1CC	
		3-pole with RCD module	--				
		4-pole	3VL9800-4WC40	1	1 unit	1CC	
		4-pole with RCD module	--				
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	
 <p>3VL9000-4WL00</p>	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).

Molded Case Circuit Breakers

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

Accessories and spare parts




SD	For VL1600 (3VL8)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.				
	--				
	--				
	--				
	--				
	--				
	--				
	--				
	--				
	--				
	--				
	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

Molded Case Circuit Breakers

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

Accessories and spare parts

2

	Circuit breakers for line protection, only for TM, starters, disconnectors	Rated current I_n	Residual currents I_{Δ} 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					
RCD modules											
 <p>Molded case circuit breakers VL160X to VL400 with RCD module mounted below the circuit breaker</p>	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 for line protection, only for TM, starters, disconnectors	Rated current I_n	Residual currents I_{Δ} adjustable	Delay t_d adjustable	Rated operational voltage U_e		3-pole circuit breakers		4-pole circuit breakers		
		A	A	s	V AC		Article No. with "-Z" 3VL.....D.....-Z and additional order code	Additional price	Article No. with "-Z" 3VL.....E.....-Z and additional order code	Additional price	
							<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Code for further versions -Z		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Code for further versions -Z		
Circuit breakers with RCD module											
	3 and 4-pole										
	VL160X (3VL1)		0.03	Instantaneous							
	(Bottom mounting)	160	0.10	0.06	127 ... 480		A 0 1 ¹⁾²⁾		A 0 1 ¹⁾²⁾		
	VL160 (3VL2)	160	0.30	0.10	127 ... 480		A 0 1		A 0 1		
			0.50	0.25	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)										
	<p>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.</p> <p>See chapter "Monitoring Devices".</p>										

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.

Molded Case Circuit Breakers

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

Accessories and spare parts

2

Version	SD	For VL160X (3VL1)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article No.				
Connection parts for fixed-mounted circuit breakers¹⁾						
3- or 4-pole						
Front connecting bars²⁾						
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
3VL9216-4EC40						
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
3VL9216-4ED40						
Rear connections						
Short connection (1 unit)						
			3VL9100-4RA00	1	1 unit	1CC
			3VL9100-4RB00	1	1 unit	1CC
3VL9.00-4RA00, 3VL9.00-4RB00						
Long connection (1 unit)						
Terminal kit (2 short + 1 long)						
3-pole						
3VL9100-4RC30						
Terminal kit (2 short + 2 long)						
4-pole						
3VL9100-4RF40						
Short flat connection (1 unit)						
3VL9100-4RK00						
Long flat connection (1 unit)						
3VL9100-4RL00						
Flat connector kit (2 short + 1 long)						
3-pole						
3VL9100-4RM30						
Flat connector kit (2 short + 2 long)						
4-pole						
3VL9100-4RN40						
						
3VL9.00-4RK00, 3VL9.00-4RL00						
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
3VL9.00-4TC.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
3VL9.00-4TD.0						
Circular conductor terminals with terminal covers for cables (Al or Cu)						
1 set = 3 units						
3VL9115-4TD30						
1 set = 4 units						
3VL9115-4TD40						
Auxiliary conductor terminals						
For box terminals/circular conductor terminals						
1 set = 10 units						
3VL9200-3TN00						
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
3VL9...-4TA.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
3VL9.00-3CB.0						
Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions						
			3VL9300-8CE00	1	1 unit	1CC
3VL9.00-8CE00						

¹⁾ For an overview of connectable connection parts, see page 2/143.









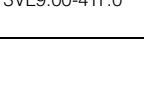



²⁾ Screw terminal connections are required for VL160X and VL160 molded case circuit breakers (3VL1 and 3VL2), see Technical Information at www.siemens.com/lowvoltage/product-support.

Molded Case Circuit Breakers

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

Accessories and spare parts

2

Version	SD	For VL160 (3VL2)	Price per PU	PU (UNIT, SET, M)	PS	PG
Connection parts for fixed-mounted circuit breakers¹⁾						
3- or 4-pole						
Front connecting bars²⁾						
Phase barriers included.						
Standard						
		3-pole	3VL9216-4EC30	1	1 unit	1CC
3VL9216-4EC40		4-pole	3VL9216-4EC40	1	1 unit	1CC
For increased pole spacing						
		3-pole	3VL9216-4ED30	1	1 unit	1CC
3VL9216-4ED40		4-pole	3VL9216-4ED40	1	1 unit	1CC
Rear connections						
Short connection (1 unit)						
Long connection (1 unit)						
		3-pole	3VL9200-4RA00	1	1 unit	1CC
3VL9.00-4R.00		4-pole	3VL9200-4RB00	1	1 unit	1CC
Terminal kit (2 short + 1 long) 3-pole						
Terminal kit (2 short + 2 long) 4-pole						
Short flat connection (1 unit)						
Long flat connection (1 unit)						
		3-pole	3VL9200-4RC30	1	1 unit	1CC
3VL9.00-4R.00		4-pole	3VL9200-4RF40	1	1 unit	1CC
Flat connector kit (2 short + 1 long) 3-pole						
Flat connector kit (2 short + 2 long) 4-pole						
3-pole						
4-pole						
Box terminal						
Connection for flexible flat copper busbar or cable, see Technical Information at www.siemens.com/lowvoltage/product-support .						
			3VL9200-4TC30	1	1 unit	1CC
3VL9.00-4TC.0			3VL9200-4TC40	1	1 unit	1CC
Circular conductor terminals						
Only for cables (Al or Cu), aluminum terminal (tinned)						
			3VL9200-4TD30	1	1 unit	1CC
3VL9.00-4TD.0			3VL9200-4TD40	1	1 unit	1CC
Circular conductor terminals with terminal covers for cable (Al or Cu)						
			3VL9215-4TD30	1	1 unit	1CC
3VL9.00-4TD.0			3VL9215-4TD40	1	1 unit	1CC
Multiple feed-in terminal without terminal covers						
			--			
3VL9.00-4TF.0			--			
Multiple feed-in terminal with terminal covers						
			--			
3VL9.00-4TF.0			--			
Auxiliary conductor terminals						
For box terminals/circular conductor terminals/multiple feed-in terminals						
1 set = 10 units						
3VL9200-3TN00						
1						
1 unit						
1CC						
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 .						
			3VL9216-4TA30	1	1 unit	1CC
3VL9...-4TA.0			3VL9216-4TA40	1	1 unit	1CC
Connection covers (terminal covers) for circuit breakers						
Degree of protection IP30 for main connections						
1 set = 2 units						
		3-pole	3VL9300-8CA30	1	1 unit	1CC
NSE0_00730		3-pole	3VL9300-8CB30	1	1 unit	1CC
3VL9.00-8CB.0		4-pole	3VL9300-8CA40	1	1 unit	1CC
		4-pole	3VL9300-8CB40	1	1 unit	1CC
Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions						
			3VL9300-8CE00	1	1 unit	1CC
NSE0_00731						
3VL9.00-8CE.0						

¹⁾ For an overview of connectable connection parts, see page 2/143.

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.

Molded Case Circuit Breakers

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

Accessories and spare parts









SD	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article.No.					d	Article No. www.siemens.com/ product?Article.No.				
	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

Molded Case Circuit Breakers

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

Accessories and spare parts

2

Version	SD	For VL630 (3VL5)	Price per PU	PU (UNIT, SET, M)	PS	PG
Connection parts for fixed-mounted circuit breakers¹⁾						
3- or 4-pole						
Front connecting bars						
Phase barriers included.						
Standard						
	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						
	1 set = 3 units	3-pole	3VL9500-4ED30	1	1 unit	1CC
	1 set = 4 units	4-pole	3VL9500-4ED40	1	1 unit	1CC
Flat connecting bar (1 unit)						
Flat connecting bars						
	Set = 3 units, 3-pole		3VL9500-4RG00	1	1 unit	1CC
	Set = 4 units, 4-pole		3VL9500-4RH30	1	1 unit	1CC
			3VL9500-4RH40	1	1 unit	1CC
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
Terminal plates²⁾						
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
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
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
Phase barriers for circuit breakers, fixed-mounted, plug-in or withdrawable versions³⁾						
	1 set = 2 units		3VL9600-8CE00	1	1 unit	1CC

¹⁾ For an overview of connectable connection parts, see page 2/143.

²⁾ Front connecting bars included in scope of supply; not for 690 V AC/600 V DC.

Molded Case Circuit Breakers

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

Accessories and spare parts

SD	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL1250 (3VL7)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.					d	Article No. www.siemens.com/product?Article No.				
	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 version: not for VL800 (3VL6) and VL1250 (3VL7).

Molded Case Circuit Breakers

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

Accessories and spare parts

2

Version	SD	For VL1600 (3VL8)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article No.				
Connection parts for fixed-mounted circuit breakers¹⁾						
3- or 4-pole						
Front connecting bars Phase barriers included.						
	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
	For increased pole spacing					
	1 set = 3 units	3-pole	--			
	1 set = 4 units	4-pole	--			
	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
	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
	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
	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 2/143.

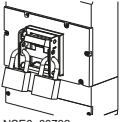
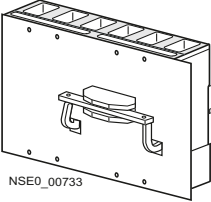
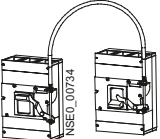
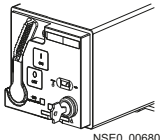
²⁾ In scope of supply of circuit breaker.

Molded Case Circuit Breakers

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

Accessories and spare parts

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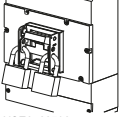
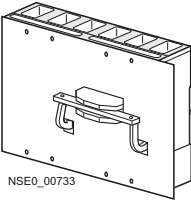
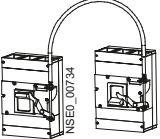
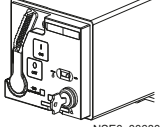
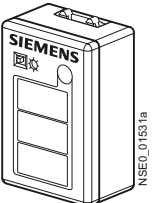
Version	SD	For VL160X (3VL1)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article.No.				
Interlocks						
3- or 4-pole						
 NSE0_00732 3VL9.00-3HL00		Locking devices for toggle levers For locking the circuit breaker in the "OFF" position. Up to 3 padlocks with a diameter of 5–8 mm can be used. Removable (padlocks not included)	3VL9300-3HL00	1	1 unit	1CC
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)						
 NSE0_00733 3VL9.00-8L.00		Fixed-mounted circuit breakers	3VL9300-8LC00	1	1 unit	1CC
		Plug-in/withdrawable circuit breakers	3VL9300-8LD00	1	1 unit	1CC
Interlocking modules for Bowden cable interlocking¹⁾						
For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker						
 NSE0_00734 3VL9.00-8LA00		Combination with next size up possible (see Article No.)	3VL9300-8LA00	1	1 unit	1CC
Bowden cables for Bowden cable interlocking¹⁾						
		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
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
 NSE0_00680 3VL9...-8HA00						
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
Transparent covers for releases, sealable						
To prevent access by unqualified personnel and unauthorized changes to settings (seal not included)						
Electronic Trip Unit						
		Thermal-magnetic	3VL9300-8BM00	1	1 unit	1CC

¹⁾ Two interlocking modules and one Bowden cable are required. Cannot be used in conjunction with motorized operating mechanism and withdrawable version!

Molded Case Circuit Breakers

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

Accessories and spare parts

Version	SD	For VL160 (3VL2)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article.No.				
Interlocks						
 NSE0_00732		3- or 4-pole 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)				
3VL9.00-3HL00		3VL9300-3HL00		1	1 unit	1CC
 NSE0_00733		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 Plug-in/withdrawable circuit breakers				
3VL9.00-8L.00		3VL9300-8LC00 3VL9300-8LD00		1 1	1 unit 1 unit	1CC 1CC
 NSE0_00734		Interlocking modules for Bowden cable interlocking¹⁾ For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker				
3VL9.00-8LA00		Combinations with next size up/down possible (see Article No.) 3VL9300-8LA00		1	1 unit	1CC
		Bowden cables for Bowden cable interlocking ¹⁾ Cable length 0.5 m Cable length 1.0 m Cable length 1.5 m				
						3VL9000-8LH10 3VL9000-8LH20 3VL9000-8LH30
				1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
 NSE0_00680		Safety lock assembly kits Key can be removed with the circuit breaker in the "OFF" position For front-operated rotary operating mechanisms <u>Lock types</u> Ronis <u>For motorized operating mechanism with stored energy mechanism</u> <u>Lock types</u> Ronis Filli Giussani				
3VL9...-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				
				1	1 unit	1CC
		Transparent covers for releases, sealable To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) Electronic Trip Unit Thermal-magnetic				
				1 1	1 unit 1 unit	1CC 1CC
 NSE0_01633 18		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		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!

Molded Case Circuit Breakers

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

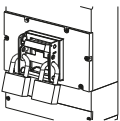
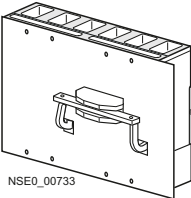
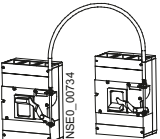
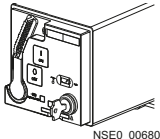
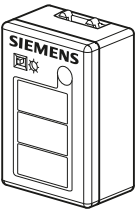
Accessories and spare parts

SD	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.				
	3VL9300-3HL00		1	1 unit	1CC		3VL9400-3HL00		1	1 unit	1CC
	3VL9300-8LC00		1	1 unit	1CC		3VL9400-8LC00		1	1 unit	1CC
	3VL9300-8LD00		1	1 unit	1CC		3VL9400-8LD00		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
	3VL9700-8BL00		1	1 unit	1CC		3VL9700-8BL00		1	1 unit	1CC
	3VL9300-8BM00		1	1 unit	1CC		3VL9400-8BM00		1	1 unit	1CC
	3VL9000-8AP01		1	1 unit	1CC		3VL9000-8AP01		1	1 unit	1CC

Molded Case Circuit Breakers

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

Accessories and spare parts

Version	SD	For VL630 (3VL5)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article No.				
Interlocks						
3- or 4-pole						
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)						
 NSE0_00732 3VL9.00-3HL00		3VL9600-3HL00		1	1 unit	1CC
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						
Plug-in/withdrawable circuit breakers						
 NSE0_00733 3VL9.00-8L.00		3VL9600-8LC00 3VL9600-8LD00		1 1	1 unit 1 unit	1CC 1CC
Interlocking modules for Bowden cable interlocking¹⁾						
For the mechanical interlocking of two circuit breakers.						
Interlocking module for one circuit breaker						
 NSE0_00734 3VL9.00-8LA00		3VL9600-8LA00		1	1 unit	1CC
Bowden cables for Bowden cable interlocking¹⁾						
Cable length 0.5 m						
Cable length 1.0 m						
Cable length 1.5 m						
		-- 3VL9000-8LH20 3VL9000-8LH30		1 1	1 unit 1 unit	1CC 1CC
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						
For motorized operating mechanism with stored energy mechanism						
Lock types						
Ronis						
3VL9715-8HA00						
Filli Giussani						
--						
 NSE0_00680 3VL9...-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						
		3VL9500-8SA40		1	1 unit	1CC
Transparent covers for releases, sealable						
To prevent access by unqualified personnel and unauthorized changes to settings (seal not included)						
Electronic Trip Units						
3VL9700-8BL00						
Thermal-magnetic						
3VL9600-8BM00						
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)						
 NSE0_01631 B 3VL9000-8AP01		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!

Molded Case Circuit Breakers

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

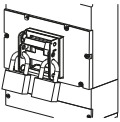
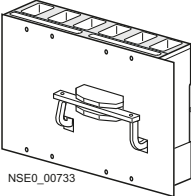
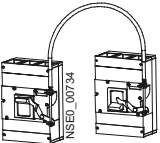
Accessories and spare parts

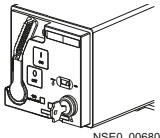
SD	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL1250 (3VL7)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article.No.					d	Article No. www.siemens.com/product?Article.No.				
	3VL9600-3HL00		1	1 unit	1CC		3VL9800-3HL00		1	1 unit	1CC
	3VL9600-8LC00		1	1 unit	1CC		3VL9800-8LC00		1	1 unit	1CC
	3VL9600-8LD00		1	1 unit	1CC		3VL9800-8LD00		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
	3VL9700-8BL00		1	1 unit	1CC		3VL9700-8BL00		1	1 unit	1CC
	--						--				
	3VL9000-8AP01		1	1 unit	1CC		3VL9000-8AP01		1	1 unit	1CC

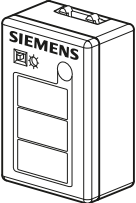
Molded Case Circuit Breakers

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

Accessories and spare parts

Version	SD	For VL1600 (3VL8) Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Interlocks						
3- or 4-pole						
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)						
 NSE0_00732 3VL9.00-3HL00		3VL9800-3HL00		1	1 unit	1CC
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⁾ Plug-in/withdrawable circuit breakers						
 NSE0_00733 3VL9.00-8L.00		3VL9800-8LC00 3VL9800-8LD00		1 1	1 unit 1 unit	1CC 1CC
Interlocking modules for Bowden cable interlocking²⁾						
For the mechanical interlocking of two circuit breakers. Interlocking module for one circuit breaker						
 NSE0_00734 3VL9.00-8LA00		3VL9800-8LA00		1	1 unit	1CC
Bowden cables for Bowden cable interlocking²⁾						
Cable length 0.5 m						
Cable length 1.0 m						
Cable length 1.5 m						
		3VL9000-8LH30		1	1 unit	1CC
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						
For motorized operating mechanisms						
Lock types						
Ronis						
3VL9715-8HA00						
Filli Giussani						

 NSE0_00680 3VL9...-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						
		3VL9800-8SA40		1	1 unit	1CC
Transparent covers for releases, sealable						
To prevent access by unqualified personnel and unauthorized changes to settings (seal not included)						
Electronic Trip Unit						
3VL9700-8BL00						
Thermal-magnetic						

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)						
 NSE0_01631a 3VL9000-8AP01		3VL9000-8AP01		1	1 unit	1CC

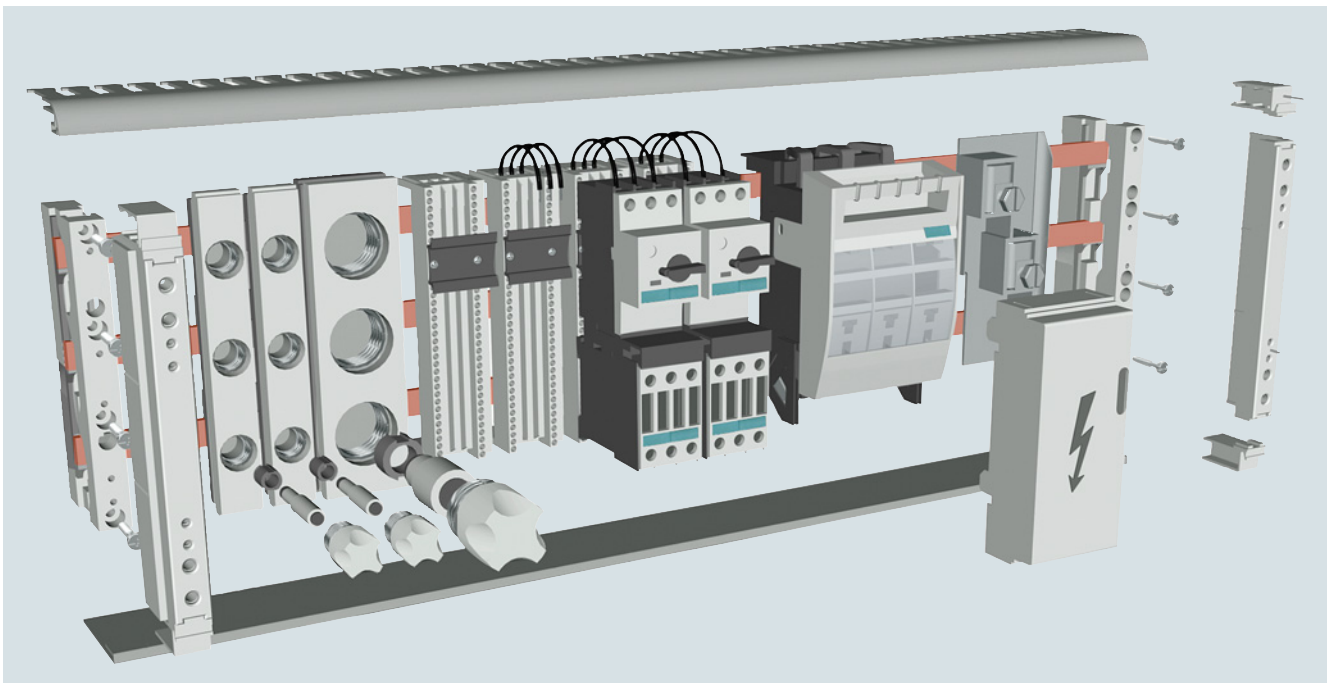
¹⁾ Mounting plate not included in scope of supply.

²⁾ Two interlocking modules and one Bowden cable are required.
Cannot be used in conjunction with motorized operating mechanism and withdrawable version!

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".

Molded Case Circuit Breakers

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

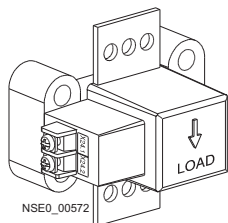
Accessories and spare parts

2

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

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⁾



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.

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

1 1 unit 1CC

3VL9000-8AQ71

1 1 unit 1CC

3VL9000-8AQ61

1 1 unit 1CC

Addressing plugs

For assigning the module addresses without using a PC/PG

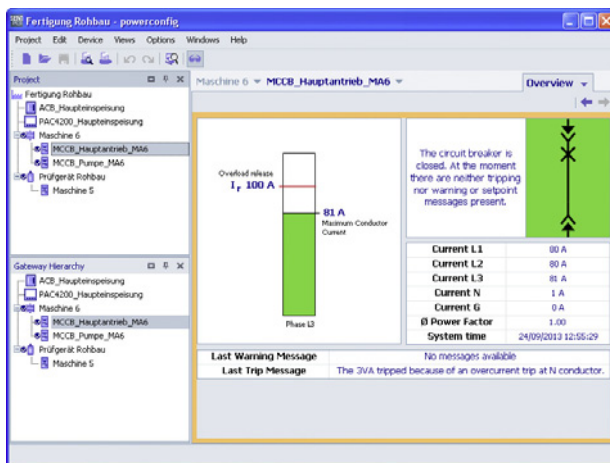
On COM20/COM21 through the system interface



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/WWW/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 2/148 to 2/165, 2/176 to 2/187.
- For more information, see also chapter "Measuring Devices and Power Monitoring" and chapter "Software".

Molded Case Circuit Breakers

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

Accessories and spare parts

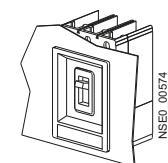
2

Version	SD	For VL160X (3VL1)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article No.				

Further accessories

3- or 4-pole

Masking frames (cover frames) for door cut-outs



Masking frame A

A Fixed-mounted or plug-in circuit breaker

IP40

3VL9300-8BC00

1 1 unit 1CC

B¹⁾ 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)

IP40

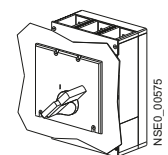
3VL9300-8BG00

1 1 unit 1CC

C 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)

IP20

--



Masking frame B

D Fixed-mounted circuit breaker or plug-in circuit breaker
RCD circuit breaker masking frame
RCD masking frame

IP40

3VL9300-8BD00

1 1 unit 1CC

3VL9300-8BD00

1 1 unit 1CC

E¹⁾ Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon.

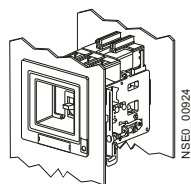
IP40

--

Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon.

IP40

--



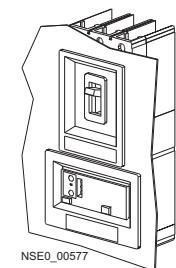
Masking frame C

Version	SD	For VL400 (3VL4)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/product?Article No.				

Further accessories

3- or 4-pole

Masking frames (cover frames) for door cut-outs



Masking frame D

A Fixed-mounted or plug-in circuit breaker

IP40

3VL9400-8BC00

1 1 unit 1CC

B¹⁾²⁾ Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism (only with SEO stored energy mechanisms)

IP40

3VL9400-8BG00

1 1 unit 1CC

C 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)

IP20

3VL9400-8BH00

1 1 unit 1CC

D Fixed-mounted circuit breaker or plug-in circuit breaker
RCD circuit breaker masking frame
RCD masking frame

IP40

3VL9400-8BC00

1 1 unit 1CC

3VL9400-8BD00

1 1 unit 1CC

E¹⁾ Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon.

IP40

3VL9400-8BH00

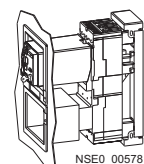
1 1 unit 1CC

Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon.

IP40

3VL9400-8BJ00

1 1 unit 1CC



Masking frame E

¹⁾ For withdrawable version IP20.

²⁾ For motorized operating mechanisms (without stored energy mechanism) for 3VL4-3VL6, use the Article No. 3VL9300-8BG00.

Molded Case Circuit Breakers

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

Accessories and spare parts

2

SD	For VL160 (3VL2)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL250 (3VL3)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article.No.					d	Article No. www.siemens.com/product?Article.No.				
	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
	3VL9300-8BJ00		1	1 unit	1CC		3VL9300-8BJ00		1	1 unit	1CC

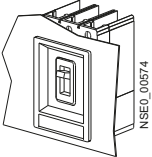
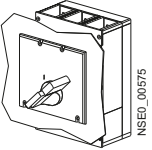
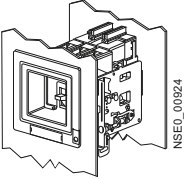
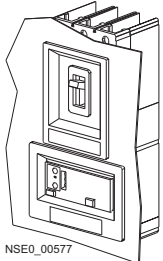
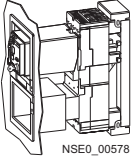
SD	For VL630 (3VL5)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL800 (3VL6)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article.No.					d	Article No. www.siemens.com/product?Article.No.				
	3VL9600-8BC00		1	1 unit	1CC		3VL9600-8BC00		1	1 unit	1CC
	3VL9600-8BG00		1	1 unit	1CC		3VL9600-8BG00		1	1 unit	1CC
	3VL9600-8BH00		1	1 unit	1CC		3VL9600-8BH00		1	1 unit	1CC
	--						--				
	--						--				
	--						--				
	--						--				

Molded Case Circuit Breakers

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

Accessories and spare parts

2

Version	SD	For VL1250 (3VL7)	Price per PU	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.				
Further accessories						
3- or 4-pole Masking frames (cover frames) for door cut-outs						
 NSE0_00574	A	Fixed-mounted or plug-in circuit breaker IP40	3VL9800-8BC00	1	1 unit	1CC
Masking frame A						
 NSE0_00575	B¹⁾	Fixed-mounted, plug-in or withdrawable circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism. IP40	3VL9800-8BG00	1	1 unit	1CC
Masking frame B						
 NSE0_00924	C	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) IP20	3VL9800-8BH00	1	1 unit	1CC
Masking frame C						
 NSE0_00577	D	Fixed-mounted circuit breaker or plug-in circuit breaker RCD circuit breaker masking frame RCD masking frame IP40	-- --			
Masking frame D						
 NSE0_00578	E¹⁾	Circuit breaker with RCD module and front-operated rotary operating mechanism. Assembly kit contains masking frame and extended escutcheon. Circuit breaker with RCD module and motorized operating mechanism. Assembly kit contains masking frame and extended escutcheon. IP40	-- --			
Masking frame E						

¹⁾ For withdrawable version IP20.

Molded Case Circuit Breakers

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

Accessories and spare parts

2

SD	For VL1600 (3VL8)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.				

	3VL9800-8BC00		1	1 unit	1CC
	3VL9800-8BG00		1	1 unit	1CC
	3VL9800-8BH00		1	1 unit	1CC
	--				
	--				
	--				
	--				

Molded Case Circuit Breakers

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

Accessories and spare parts

More information

2

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 "Software", "3WL 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 from page [2/234](#) onwards.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Introduction

Overview

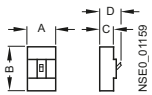
2



Type VL150X UL, CG frame VL150 UL, DG frame VL250 UL, FG frame VL400 UL, JG frame

Molded case circuit breakers

3VL molded case circuit breakers up to 1600 A, according to UL 489

Rated current I_n ¹⁾ at 40 °C ambient temperature	A	20 to 150	50 to 150	100 to 250	250 to 400
Number of poles		3	3	3	3
Rated operational voltage U_e (UL) 50/60 Hz AC	V	480, 600/347	480, 600/347	400, 600/347	600
DC ²⁾	V	250	500	500	500
Trip units					
Thermal-magnetic		✓	✓	✓	✓
Electronic, ETU with setting knobs		--	✓	✓	✓
Electronic LCD ETU		--	✓	✓	✓
Dimensions					
					
A	mm	105	105	105	139
B	mm	157	175	175	279
C	mm	81	81	81	102
D	mm	107	107	107	138

Breaking capacity

Standard breaking capacity N N

Up to 240 V AC	kA	65	65	65	65
Up to 480 V AC	kA	35	35	35	35
Up to 600 V AC	kA	--	--	--	25
Up to 600/347 V AC	kA	10	18	18	--
Up to 250 V DC ³⁾	kA	30	30	30	30
Up to 500 V DC ^{3) 4)}	kA	--	18	18	25
Breaking capacity I_{cu}/I_{cs} RMS value acc. to IEC 60947-2					
Up to 240 V AC	kA	65/65	65/65	65/65	65/65
Up to 415 V AC	kA	40/40	40/40	40/40	45/45
Up to 690 V AC	kA	8/4 ⁵⁾	12/6	12/6	12/6
Up to 250 V DC ³⁾	kA	30/30	30/30	30/30	30/30

High breaking capacity H H

Up to 240 V AC	kA	100	100	100	100
Up to 480 V AC	kA	65	65	65	65
Up to 600 V AC	kA	--	--	--	25
Up to 600/347 V AC	kA	10	18	18	--
Up to 250 V DC ³⁾	kA	30	30	30	30
Up to 500 V DC ^{3) 4)}	kA	--	18	25	35
Breaking capacity I_{cu}/I_{cs} RMS value acc. to IEC 60947-2					
Up to 240 V AC	kA	100/75	100/75	100/75	100/75
Up to 415 V AC	kA	70/70	70/70	70/70	70/70
Up to 690 V AC	kA	10/5 ⁵⁾	12/6	12/6	15/8
Up to 250 V DC ³⁾	kA	30/30	30/30	30/30	30/30

Very high breaking capacity L L

Up to 240 V AC	kA	--	200	200	200
Up to 480 V AC	kA	--	100	100	100
Up to 600 V AC	kA	--	--	--	25
Up to 600/347 V AC	kA	--	18	18	--
Up to 250 V DC ³⁾	kA	--	30	30	30
Up to 500 V DC ^{3) 4)}	kA	--	18	30	35
Breaking capacity I_{cu}/I_{cs} RMS value acc. to IEC 60947-2					
Up to 240 V AC	kA	--	200/150	200/150	200/150
Up to 415 V AC	kA	--	100/75	100/75	100/75
Up to 690 V AC	kA	--	12/6	12/6	15/8
Up to 250 V DC ³⁾	kA	--	30/30	30/30	30/30

✓ Available -- Not available

¹⁾ 80% rated current applications according to UL 489, 100% rated current applications according to IEC 60947-2.

²⁾ Rated DC voltage applies only for molded case circuit breakers with thermal-magnetic release.



VL400X UL, LG frame



VL800 UL, MG frame



VL1200 UL, NG frame



VL1600 UL, PG frame

3VL molded case circuit breakers up to 1600 A, according to UL 489

400 to 600	600 to 800	800 to 1200	1200 to 1600
------------	------------	-------------	--------------

3	3	3	3
600 500	600 500	600 500	600 500
✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓
139 279 102 138	190 406 118 151	229 406 157 209	229 406 157 209

65 35 18 --	65 35 25 --	65 35 25 --	65 35 25 --
30 25	22 35	22 35	22 35
65/65 45/45 12/6 30/30	65/65 50/50 20/10 30/30	65/35 50/25 20/10 30/30	65/35 50/25 20/10 30/30

100 65 18 --	100 65 35 --	100 65 35 --	100 65 35 --
30 35	25 50	25 50	25 50
100/75 70/70 15/8 30/30	100/75 70/70 20/10 30/30	100/50 70/35 30/15 30/30	100/50 70/35 30/15 30/30

200 100 18 --	200 100 50 --	200 100 65 --	200 100 65 --
30 35	42 65	42 65	42 65
200/150 100/75 15/8 30/30	200/150 100/75 20/10 30/30	200/100 100/50 35/17 30/30	200/100 100/50 35/17 30/30

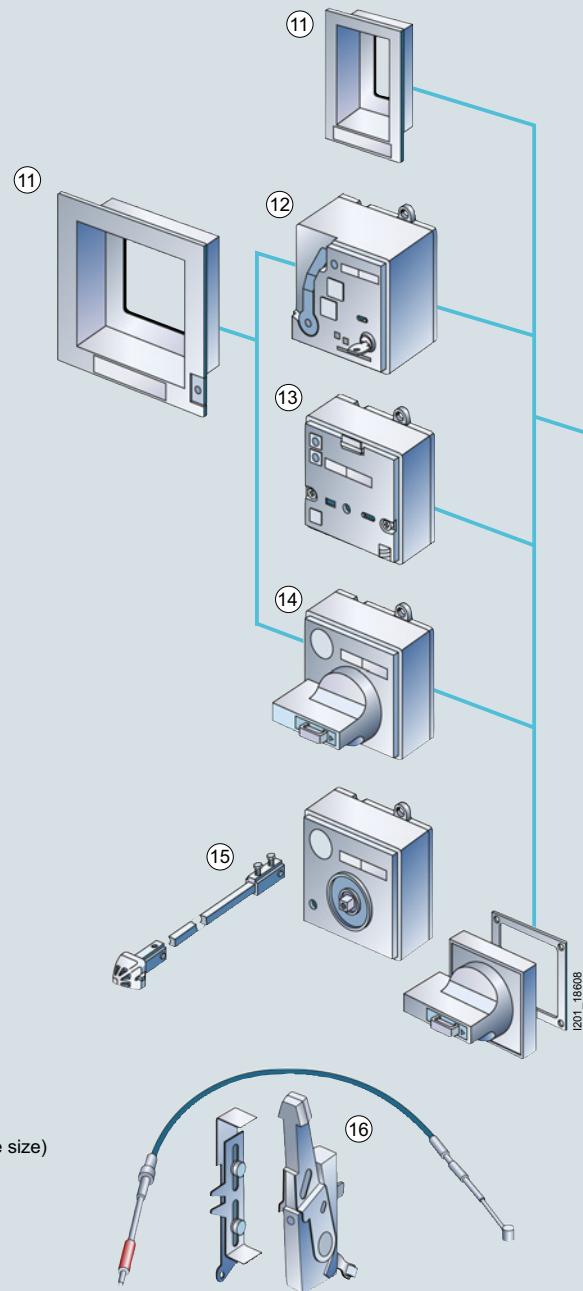
- 3) The maximum permitted DC voltage for each conducting path needs to be taken into account for DC switching applications.
 4) 500 V DC rated / 600 V DC max. for use in ungrounded UPS DC applications (according to UL 489, Supplement SC)
 5) Rated current $I_n \geq 25$ A.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Introduction

2



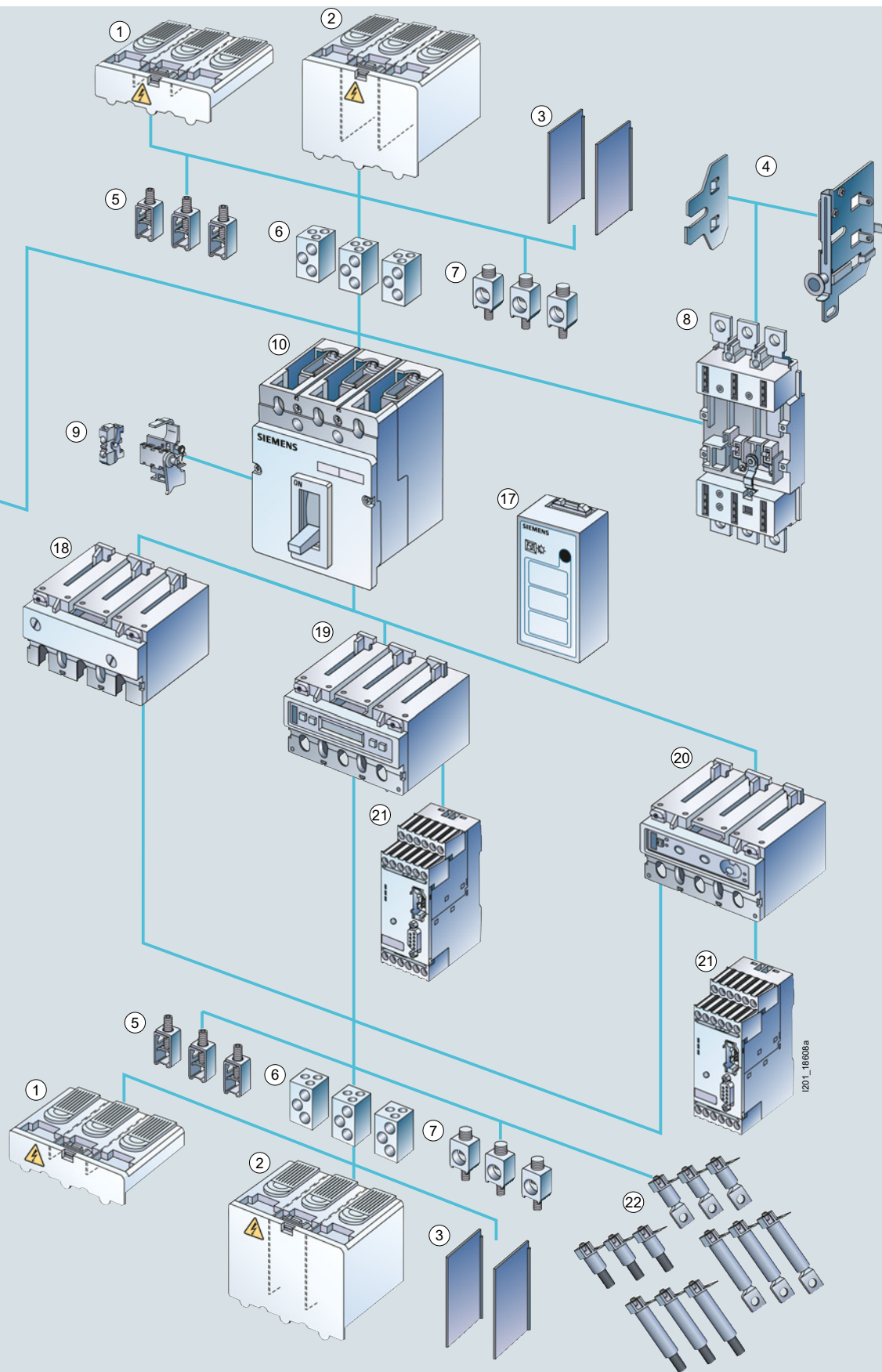
- ① Standard terminal cover
- ② Extended terminal cover
- ③ Phase barriers
- ④ Side walls of the withdrawable unit
- ⑤ Box terminal for Cu
- ⑥ Multiple feed-in terminal for Al/Cu (dependent on frame size)
- ⑦ Circular conductor terminals for Al/Cu
- ⑧ Withdrawable/plug-in base
- ⑨ Internal accessories
- ⑩ 3VL molded case circuit breaker
- ⑪ Cover frame for door cut-out
- ⑫ Motorized operating mechanisms with stored energy feature (SEO), CG to MG frame only
- ⑬ Motorized operating mechanisms (MO), NG and PG frame only
- ⑭ Front-operated rotary operating mechanisms
- ⑮ Door-coupling rotary operating mechanisms
- ⑯ Operating unit with Bowden cable (Max Flex operator)
- ⑰ Battery power supply with test function for Electronic Trip Units
- ⑱ Thermal-magnetic release
- ⑲ Electronic Trip Unit with LCD (LCD ETU)
- ⑳ Electronic Trip Unit with setting knobs (ETU)
- ㉑ Communication module COM20/21 (Release 2)
- ㉒ Rear terminals – flat and round

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Introduction

2



1201_18608a

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Introduction

Benefits

2



- 3VL molded case circuit breakers according to UL 489 optimally fulfill the high demands prevalent in modern power distribution.
- The molded case circuit breakers have a compact design and at the same time a high breaking capacity of up to 100 kA at 480 V.
- They are available both in thermal-magnetic (20 A to 1600 A) and in electronic versions (60 A to 1600 A).
- Via PROFIBUS DP and Modbus RTU, the molded case circuit breakers with Electronic Trip Units (ETUs) are consistently communication-capable.

Application

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

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

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

1. For line protection
The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads.
2. For starter combinations
These molded case circuit breakers are used both for short-circuit protection as well as for isolating functions, which may be required in starter combinations consisting of molded case circuit breakers, overload relays and motor contactors. These molded case circuit breakers exclusively feature adjustable, instantaneous short-circuit releases.
3. As non-automatic circuit breakers
These molded case circuit breakers can be used as feeder circuit breakers, main control switches or non-automatic circuit breakers without overload protection. They incorporate an integrated short-circuit self-protection system.

Breaking capacity

N	Molded case circuit breakers with standard breaking capacity N (up to 35 kA at 480 V)
H	Molded case circuit breakers with high breaking capacity H (up to 65 kA at 480 V)
L	Molded case circuit breakers with very high breaking capacity L (up to 100 kA at 480 V)

Standards and specifications

3VL molded case circuit breakers according to UL comply with:

UL 489,
CSA (CSA C22.2 No. 5),
IEC/EN 60947-2,
For isolating features acc. to IEC 60947-2, EN 60947-2,
NOM (NMJ-J-266-ANCE) please inquire.
CCC (only VL2 UL/DG, VL3 UL/FG, VL4 UL/JG and VL4X UL/LG)
GOST and FireSafety (Russia)

The 3VL UL molded case circuit breakers comply in addition with requirements for "disconnecting means with features for stopping and switching off in an emergency" (EMERGENCY-STOP switches) in conjunction with lockable rotary operating mechanisms (red-yellow).

Please contact Siemens for details of other standards.

Operating conditions

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

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

Selection and ordering data

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	Standard breaking capacity N, up to 35 kA at 480 V See Overview .	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	A	d	Article No. www.siemens.com/product?Article.No. Article No. supplement required, see page 2/256				

Fixed-mounted molded case circuit breakers, VL150X UL (CG frame) up to VL1600 UL (PG frame), thermal-magnetic releases (UL file: E10848, CCN¹⁾): DIVQ



1201_19069

Line protection, TM, LI function

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

VL150X UL: fixed short-circuit releases

Connection type:

Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", [pages 2/271 to 2/274](#) or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", [pages 2/275 to 2/282](#).

VL150X UL, CG frame	20	20	300	3VL1102-1KN30-□□□□	1	1 unit	1CC
	25	25	300	3VL1125-1KN30-□□□□	1	1 unit	1CC
	30	30	300	3VL1103-1KN30-□□□□	1	1 unit	1CC
	35	35	600	3VL1135-1KN30-□□□□	1	1 unit	1CC
	40	40	600	3VL1104-1KN30-□□□□	1	1 unit	1CC
	50	50	600	3VL1105-1KN30-□□□□	1	1 unit	1CC
	60	60	600	3VL1106-1KN30-□□□□	1	1 unit	1CC
	70	70	1000	3VL1107-1KN30-□□□□	1	1 unit	1CC
	80	80	1000	3VL1108-1KN30-□□□□	1	1 unit	1CC
	90	90	1000	3VL1191-1KN30-□□□□	1	1 unit	1CC
	100	100	1000	3VL1110-1KN30-□□□□	1	1 unit	1CC
125	125	1000	3VL1112-1KN30-□□□□	1	1 unit	1CC	
150	150	1500	3VL1115-1KN30-□□□□	1	1 unit	1CC	
VL150 UL, DG frame	50	50	450 ... 700	3VL2505-1KN30-□□□□	1	1 unit	1CC
	60	60	450 ... 700	3VL2506-1KN30-□□□□	1	1 unit	1CC
	70	70	450 ... 700	3VL2507-1KN30-□□□□	1	1 unit	1CC
	80	80	450 ... 800	3VL2508-1KN30-□□□□	1	1 unit	1CC
	90	90	500 ... 1000	3VL2591-1KN30-□□□□	1	1 unit	1CC
	100	100	500 ... 1000	3VL2510-1KN30-□□□□	1	1 unit	1CC
	110	110	550 ... 1100	3VL2511-1KN30-□□□□	1	1 unit	1CC
	125	125	625 ... 1250	3VL2512-1KN30-□□□□	1	1 unit	1CC
150	150	800 ... 1600	3VL2515-1KN30-□□□□	1	1 unit	1CC	
VL250 UL, FG frame	100	100	625 ... 1250	3VL3510-1KN30-□□□□	1	1 unit	1CC
	110	110	800 ... 1600	3VL3511-1KN30-□□□□	1	1 unit	1CC
	125	125	800 ... 1600	3VL3512-1KN30-□□□□	1	1 unit	1CC
	150	150	800 ... 1600	3VL3515-1KN30-□□□□	1	1 unit	1CC
	175	175	1000 ... 2000	3VL3517-1KN30-□□□□	1	1 unit	1CC
	200	200	1000 ... 2000	3VL3520-1KN30-□□□□	1	1 unit	1CC
	225	225	1250 ... 2500	3VL3522-1KN30-□□□□	1	1 unit	1CC
250	250	1250 ... 2500	3VL3525-1KN30-□□□□	1	1 unit	1CC	
VL400 UL, JG frame	250	250	1250 ... 2500	3VL4125-1KN30-□□□□	1	1 unit	1CC
	300	300	1500 ... 3000	3VL4130-1KN30-□□□□	1	1 unit	1CC
	350	350	1750 ... 3500	3VL4135-1KN30-□□□□	1	1 unit	1CC
	400	400	2000 ... 4000	3VL4140-1KN30-□□□□	1	1 unit	1CC
VL400X UL, LG frame	400	400	2000 ... 4000	3VL4840-1KN30-□□□□	1	1 unit	1CC
	500	500	2500 ... 5000	3VL4850-1KN30-□□□□	1	1 unit	1CC
	600	600	2750 ... 5500	3VL4860-1KN30-□□□□	1	1 unit	1CC
VL800 UL, MG frame	600	600	3000 ... 6000	3VL6160-1KN30-□□□□	1	1 unit	1CC
	700	700	3250 ... 6500	3VL6170-1KN30-□□□□	1	1 unit	1CC
	800	800	3250 ... 6500	3VL6180-1KN30-□□□□	1	1 unit	1CC
VL1200 UL, NG frame	800	800	4000 ... 8000	3VL7180-1KN30-□□□□	1	1 unit	1CC
	900	900	5000 ... 10000	3VL7190-1KN30-□□□□	1	1 unit	1CC
	1000	1000	5000 ... 10000	3VL7110-1KN30-□□□□	1	1 unit	1CC
	1200	1200	7000 ... 12000	3VL7112-1KN30-□□□□	1	1 unit	1CC
VL1600 UL, PG frame ²⁾	1200	1200	7000 ... 12000	3VL8112-1KN30-□□□□	1	1 unit	1CC
	1400	1400	7000 ... 12000	3VL8114-1KN30-□□□□	1	1 unit	1CC
	1600	1600	7000 ... 12000	3VL8116-1KN30-□□□□	1	1 unit	1CC

¹⁾ UL Category Code Number.

²⁾ Operation of the molded case circuit breakers within the applicable range of UL 489/CSA is permitted only in conjunction with the mounting base (see [page 2/282](#)).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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SD	High breaking capacity H, up to 65 kA at 480 V	(H)	SD	Very high breaking capacity L, up to 100 kA at 480 V	(L)
	Article No. www.siemens.com/ product?Article.No. Article No. supplement required, see page 2/256	Price per PU	PU (UNIT, SET, M)	PS	PG
d					

3VL1102-2KM30-□□□□	1	1 unit	1CC	--	
3VL1125-2KM30-□□□□	1	1 unit	1CC	--	
3VL1103-2KM30-□□□□	1	1 unit	1CC	--	
3VL1135-2KM30-□□□□	1	1 unit	1CC	--	
3VL1104-2KM30-□□□□	1	1 unit	1CC	--	
3VL1105-2KM30-□□□□	1	1 unit	1CC	--	
3VL1106-2KM30-□□□□	1	1 unit	1CC	--	
3VL1107-2KM30-□□□□	1	1 unit	1CC	--	
3VL1108-2KM30-□□□□	1	1 unit	1CC	--	
3VL1191-2KM30-□□□□	1	1 unit	1CC	--	
3VL1110-2KM30-□□□□	1	1 unit	1CC	--	
3VL1112-2KM30-□□□□	1	1 unit	1CC	--	
3VL1115-2KM30-□□□□	1	1 unit	1CC	--	
3VL2505-2KN30-□□□□	1	1 unit	1CC	3VL2505-3KN30-□□□□	1 1 unit 1CC
3VL2506-2KN30-□□□□	1	1 unit	1CC	3VL2506-3KN30-□□□□	1 1 unit 1CC
3VL2507-2KN30-□□□□	1	1 unit	1CC	3VL2507-3KN30-□□□□	1 1 unit 1CC
3VL2508-2KN30-□□□□	1	1 unit	1CC	3VL2508-3KN30-□□□□	1 1 unit 1CC
3VL2591-2KN30-□□□□	1	1 unit	1CC	3VL2591-3KN30-□□□□	1 1 unit 1CC
3VL2510-2KN30-□□□□	1	1 unit	1CC	3VL2510-3KN30-□□□□	1 1 unit 1CC
3VL2511-2KN30-□□□□	1	1 unit	1CC	3VL2511-3KN30-□□□□	1 1 unit 1CC
3VL2512-2KN30-□□□□	1	1 unit	1CC	3VL2512-3KN30-□□□□	1 1 unit 1CC
3VL2515-2KN30-□□□□	1	1 unit	1CC	3VL2515-3KN30-□□□□	1 1 unit 1CC
3VL3510-2KN30-□□□□	1	1 unit	1CC	3VL3510-3KN30-□□□□	1 1 unit 1CC
3VL3511-2KN30-□□□□	1	1 unit	1CC	3VL3511-3KN30-□□□□	1 1 unit 1CC
3VL3512-2KN30-□□□□	1	1 unit	1CC	3VL3512-3KN30-□□□□	1 1 unit 1CC
3VL3515-2KN30-□□□□	1	1 unit	1CC	3VL3515-3KN30-□□□□	1 1 unit 1CC
3VL3517-2KN30-□□□□	1	1 unit	1CC	3VL3517-3KN30-□□□□	1 1 unit 1CC
3VL3520-2KN30-□□□□	1	1 unit	1CC	3VL3520-3KN30-□□□□	1 1 unit 1CC
3VL3522-2KN30-□□□□	1	1 unit	1CC	3VL3522-3KN30-□□□□	1 1 unit 1CC
3VL3525-2KN30-□□□□	1	1 unit	1CC	3VL3525-3KN30-□□□□	1 1 unit 1CC
3VL4125-2KN30-□□□□	1	1 unit	1CC	3VL4125-3KN30-□□□□	1 1 unit 1CC
3VL4130-2KN30-□□□□	1	1 unit	1CC	3VL4130-3KN30-□□□□	1 1 unit 1CC
3VL4135-2KN30-□□□□	1	1 unit	1CC	3VL4135-3KN30-□□□□	1 1 unit 1CC
3VL4140-2KN30-□□□□	1	1 unit	1CC	3VL4140-3KN30-□□□□	1 1 unit 1CC
3VL4840-2KN30-□□□□	1	1 unit	1CC	3VL4840-3KN30-□□□□	1 1 unit 1CC
3VL4850-2KN30-□□□□	1	1 unit	1CC	3VL4850-3KN30-□□□□	1 1 unit 1CC
3VL4860-2KN30-□□□□	1	1 unit	1CC	3VL4860-3KN30-□□□□	1 1 unit 1CC
3VL6160-2KN30-□□□□	1	1 unit	1CC	3VL6160-3KN30-□□□□	1 1 unit 1CC
3VL6170-2KN30-□□□□	1	1 unit	1CC	3VL6170-3KN30-□□□□	1 1 unit 1CC
3VL6180-2KN30-□□□□	1	1 unit	1CC	3VL6180-3KN30-□□□□	1 1 unit 1CC
3VL7180-2KN30-□□□□	1	1 unit	1CC	3VL7180-3KN30-□□□□	1 1 unit 1CC
3VL7190-2KN30-□□□□	1	1 unit	1CC	3VL7190-3KN30-□□□□	1 1 unit 1CC
3VL7110-2KN30-□□□□	1	1 unit	1CC	3VL7110-3KN30-□□□□	1 1 unit 1CC
3VL7112-2KN30-□□□□	1	1 unit	1CC	3VL7112-3KN30-□□□□	1 1 unit 1CC
3VL8112-2KN30-□□□□	1	1 unit	1CC	3VL8112-3KN30-□□□□	1 1 unit 1CC
3VL8114-2KN30-□□□□	1	1 unit	1CC	3VL8114-3KN30-□□□□	1 1 unit 1CC
3VL8116-2KN30-□□□□	1	1 unit	1CC	3VL8116-3KN30-□□□□	1 1 unit 1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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Type	Rated current I_n	Operating current of the instantaneous short-circuit protection "I" I_i	SD	Standard breaking capacity N, up to 35 kA at 480 V See "Overview".	(N)			
	A	A	d	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/256	Price per PU	PU (UNIT, SET, M)	PS	PG

**Fixed-mounted molded case circuit breakers,
VL150 UL (DG frame) to VL1600 UL (PG frame),
magnetic and Electronic Trip Units**



NSE0_00707

Molded case circuit breakers for starter combination, I function (motor circuit-protectors; UL file: E10848, CCN¹⁾: DKPUZ²⁾

Without overcurrent release, with adjustable short-circuit release

Connection type:

Molded case circuit breakers without preassembled connections,
connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/271 to 2/274 or
under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/275 to 2/282.

VL150 UL, DG frame	150	450 ... 900	--	
	150	750 ... 1500	--	
	150	1250 ... 2500	--	
VL250 UL, FG frame	250	600 ... 1200	--	
	250	1000 ... 2000	--	
	250	1750 ... 3500	--	
VL400 UL, JG frame	400	1250 ... 2500	--	
	400 ³⁾	2000 ... 4000	--	
VL400X UL, LG frame	600	2000 ... 4000	--	
	600 ³⁾	2750 ... 5500	--	
VL800 UL, MG frame	800	3250 ... 6500	--	
VL1200 UL, NG frame	1200	7000 ... 12000	--	



NSE0_00708

Non-automatic molded case circuit breakers (molded case switches; UL file: E68312, CCN¹⁾: WJAZ)

Without overcurrent release, with fixed short-circuit release (for intrinsic protection only)

Connection type:

Molded case circuit breakers without preassembled connections,
connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/271 to 2/274 or
under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/275 to 2/282.

VL150X UL, CG frame	100	1800	3VL1110-1KE30-□□□□	1	1 unit	1CC
	150	1800	3VL1115-1KE30-□□□□	1	1 unit	1CC
VL150 UL, DG frame	150	2500	--			
VL250 UL, FG frame	250	3500	--			
VL400 UL, JG frame	400	4400	--			
VL400X UL, LG frame	600	5500	--			
VL800 UL, MG frame	800	6500	--			
VL1200 UL, NG frame	1200	12000	--			
VL1600 UL, PG frame ⁴⁾	1600	14000	--			

1) UL Category Code Number.

2) UL-recognized.

3) Motor current according to NEC 430-110.

4) Operation of the molded case circuit breakers within the applicable range
of UL 489/CSA is permitted only in conjunction with the mounting base
(see page 2/282).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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SD	High breaking capacity H, up to 65 kA at 480 V (H)	SD	Very high breaking capacity L, up to 100 kA at 480 V (L)						
d	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/256	d	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/256						
	Price per PU	PU (UNIT, SET, M)	PS	PG		Price per PU	PU (UNIT, SET, M)	PS	PG

3VL2515-2KJ30-□□□□	1	1 unit	1CC	--					
3VL2515-2KK30-□□□□	1	1 unit	1CC	--					
3VL2515-2KL30-□□□□	1	1 unit	1CC	--					
3VL3525-2KJ30-□□□□	1	1 unit	1CC	--					
3VL3525-2KK30-□□□□	1	1 unit	1CC	--					
3VL3525-2KL30-□□□□	1	1 unit	1CC	--					
3VL4140-2KJ30-□□□□	1	1 unit	1CC	--					
3VL4140-2KK30-□□□□	1	1 unit	1CC	--					
3VL4860-2KJ30-□□□□	1	1 unit	1CC	--					
3VL4860-2KK30-□□□□	1	1 unit	1CC	--					
3VL6180-2KK30-□□□□	1	1 unit	1CC	--					
3VL7112-2KK30-□□□□	1	1 unit	1CC	--					

3VL1110-2KE30-□□□□	1	1 unit	1CC	--					
3VL1115-2KE30-□□□□	1	1 unit	1CC	--					
3VL2515-2KE30-□□□□	1	1 unit	1CC	3VL2515-3KE30-□□□□	1	1 unit	1CC		
3VL3525-2KE30-□□□□	1	1 unit	1CC	3VL3525-3KE30-□□□□	1	1 unit	1CC		
3VL4140-2KE30-□□□□	1	1 unit	1CC	3VL4140-3KE30-□□□□	1	1 unit	1CC		
3VL4860-2KE30-□□□□	1	1 unit	1CC	3VL4860-3KE30-□□□□	1	1 unit	1CC		
3VL6180-2KE30-□□□□	1	1 unit	1CC	3VL6180-3KE30-□□□□	1	1 unit	1CC		
3VL7112-2KE30-□□□□	1	1 unit	1CC	3VL7112-3KE30-□□□□	1	1 unit	1CC		
3VL8116-2KE30-□□□□	1	1 unit	1CC	3VL8116-3KE30-□□□□	1	1 unit	1CC		

Molded Case Circuit Breakers

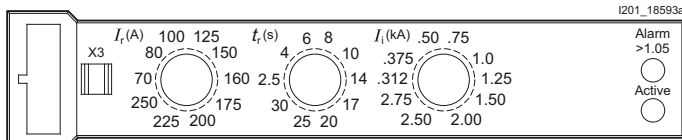
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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2

Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Response time of the inverse-time delayed overload protection "L" t_r	Operating current of the instantaneous short-circuit protection "I" I_i	SD	Standard breaking capacity N, up to 35 kA at 480 V See "Overview".				
	A	A	s	A	d	Article No. www.siemens.com/ product?ArticleNo. Article No. supplement required, see page 2/256	Price per PU	PU (UNIT, SET, M)	PS	PG

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) up to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN¹): DIVQ



Line protection

With Electronic Trip Units ETU (model 555)

LI function

Connection type:

Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/271 to 2/274 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/275 to 2/282.

VL150 UL, DG frame	60	30 ... 60	2.5 ... 30	75 ... 660 (11 x I_n)	3VL2506-1PB30-□□□□	1	1 unit	1CC
	100	40 ... 100	2.5 ... 30	125 ... 1100 (11 x I_n)	3VL2510-1PB30-□□□□	1	1 unit	1CC
	150	60 ... 150	2.5 ... 30	187 ... 1650 (11 x I_n)	3VL2515-1PB30-□□□□	1	1 unit	1CC
VL250 UL, FG frame	100	40 ... 100	2.5 ... 30	125 ... 1100 (11 x I_n)	3VL3510-1PB30-□□□□	1	1 unit	1CC
	150	60 ... 150	2.5 ... 30	187 ... 1650 (11 x I_n)	3VL3515-1PB30-□□□□	1	1 unit	1CC
	250	70 ... 250	2.5 ... 30	312 ... 2750 (11 x I_n)	3VL3525-1PB30-□□□□	1	1 unit	1CC
VL400 UL, JG frame	250	70 ... 250	2.5 ... 30	312 ... 2750 (11 x I_n)	3VL4125-1PB30-□□□□	1	1 unit	1CC
	400	150 ... 400	2.5 ... 30	500 ... 4400 (11 x I_n)	3VL4140-1PB30-□□□□	1	1 unit	1CC
VL400X UL, LG frame	400	150 ... 400	2.5 ... 30	500 ... 4400 (11 x I_n)	3VL4840-1PB30-□□□□	1	1 unit	1CC
	600	200 ... 600	2.5 ... 30	750 ... 6000 (10 x I_n)	3VL4860-1PB30-□□□□	1	1 unit	1CC
VL800 UL, MG frame	600	200 ... 600	2.5 ... 30	750 ... 6000 (10 x I_n)	3VL6160-1PB30-□□□□	1	1 unit	1CC
	800	300 ... 800	2.5 ... 30	1000 ... 6000 (7.5 x I_n)	3VL6180-1PB30-□□□□	1	1 unit	1CC
VL1200 UL, NG frame	800	300 ... 800	2.5 ... 30	1000 ... 8800 (11 x I_n)	3VL7180-1PB30-□□□□	1	1 unit	1CC
	1000	400 ... 1000	2.5 ... 30	1250 ... 11000 (11 x I_n)	3VL7110-1PB30-□□□□	1	1 unit	1CC
	1200	400 ... 1200	2.5 ... 30	1500 ... 12000 (10 x I_n)	3VL7112-1PB30-□□□□	1	1 unit	1CC
VL1600 UL, PG frame ²⁾	1200	400 ... 1200	2.5 ... 30	1500 ... 12000 (10 x I_n)	3VL8112-1PB30-□□□□	1	1 unit	1CC
	1600	700 ... 1600	2.5 ... 30	2000 ... 9600 (6 x I_n)	3VL8116-1PB30-□□□□	1	1 unit	1CC

L = overload

I = short-circuit protection, instantaneous

¹⁾ UL Category Code Number.

²⁾ Operation of the molded case circuit breakers within the applicable range of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/282).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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SD	High breaking capacity H, up to 65 kA at 480 V	(H)	SD	Very high breaking capacity L, up to 100 kA at 480 V	(L)
	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/256	Price per PU	PU (UNIT, SET, M)	PS	PG
d					

3VL2506-2PB30-□□□□	1	1 unit	1CC	3VL2506-3PB30-□□□□	1	1 unit	1CC
3VL2510-2PB30-□□□□	1	1 unit	1CC	3VL2510-3PB30-□□□□	1	1 unit	1CC
3VL2515-2PB30-□□□□	1	1 unit	1CC	3VL2515-3PB30-□□□□	1	1 unit	1CC
3VL3510-2PB30-□□□□	1	1 unit	1CC	3VL3510-3PB30-□□□□	1	1 unit	1CC
3VL3515-2PB30-□□□□	1	1 unit	1CC	3VL3515-3PB30-□□□□	1	1 unit	1CC
3VL3525-2PB30-□□□□	1	1 unit	1CC	3VL3525-3PB30-□□□□	1	1 unit	1CC
3VL4125-2PB30-□□□□	1	1 unit	1CC	3VL4125-3PB30-□□□□	1	1 unit	1CC
3VL4140-2PB30-□□□□	1	1 unit	1CC	3VL4140-3PB30-□□□□	1	1 unit	1CC
3VL4840-2PB30-□□□□	1	1 unit	1CC	3VL4840-3PB30-□□□□	1	1 unit	1CC
3VL4860-2PB30-□□□□	1	1 unit	1CC	3VL4860-3PB30-□□□□	1	1 unit	1CC
3VL6160-2PB30-□□□□	1	1 unit	1CC	3VL6160-3PB30-□□□□	1	1 unit	1CC
3VL6180-2PB30-□□□□	1	1 unit	1CC	3VL6180-3PB30-□□□□	1	1 unit	1CC
3VL7180-2PB30-□□□□	1	1 unit	1CC	3VL7180-3PB30-□□□□	1	1 unit	1CC
3VL7110-2PB30-□□□□	1	1 unit	1CC	3VL7110-3PB30-□□□□	1	1 unit	1CC
3VL7112-2PB30-□□□□	1	1 unit	1CC	3VL7112-3PB30-□□□□	1	1 unit	1CC
3VL8112-2PB30-□□□□	1	1 unit	1CC	3VL8112-3PB30-□□□□	1	1 unit	1CC
3VL8116-2PB30-□□□□	1	1 unit	1CC	3VL8116-3PB30-□□□□	1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

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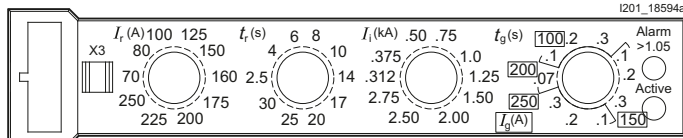
2

Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Response time of the inverse-time delayed overload protection "L" t_r	Operating current of the instantaneous short-circuit protection "I" I_i	Standard setting of I_g/A and t_g/s	t_g/s adjustable to 0.1, 0.2 and 0.3 s for following I_g/A	SD	Standard breaking capacity N, up to 35 kA at 480 V See "Overview" (N)				
	A	A	s	A			d	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) up to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN¹): DIVQ



NSE0_00693



i201_18594a

Line protection

With Electronic Trip Unit ETU (model 555)

LIG function

for 4-wire three-phase systems (vectorial summation current formation)

Connection type:

Molded case circuit breakers without preassembled connections,

connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/271 to 2/274 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/275 to 2/282.

Current transformers must be ordered under "Accessories", page 2/290.

VL150 UL, DG frame	60 100 150	30 ... 60 40 ... 100 60 ... 150	2.5 ... 30 2.5 ... 30 2.5 ... 30	75 ... 660 (11 x I_n) 125 ... 1100 (11 x I_n) 187 ... 1650 (11 x I_n)	48/0.07 80/0.07 120/0.07	24/36/60 40/60/100 60/90/150	3VL2506-1PD30-□□□□ 3VL2510-1PD30-□□□□ 3VL2515-1PD30-□□□□	1 1 1	1 1 1	unit unit unit	1CC 1CC 1CC
VL250 UL, FG frame	100 150 250	40 ... 100 60 ... 150 70 ... 250	2.5 ... 30 2.5 ... 30 2.5 ... 30	125 ... 1100 (11 x I_n) 187 ... 1650 (11 x I_n) 312 ... 2750 (11 x I_n)	80/0.07 120/0.07 200/0.07	40/60/100 60/90/150 100/150/250	3VL3510-1PD30-□□□□ 3VL3515-1PD30-□□□□ 3VL3525-1PD30-□□□□	1 1 1	1 1 1	unit unit unit	1CC 1CC 1CC
VL400 UL, JG frame	250 400	70 ... 250 150 ... 400	2.5 ... 30 2.5 ... 30	312 ... 2750 (11 x I_n) 500 ... 4400 (11 x I_n)	200/0.07 320/0.11	100/150/250 160/240/400	3VL4125-1PD30-□□□□ 3VL4140-1PD30-□□□□	1 1	1 1	unit unit	1CC 1CC
VL400X UL, LG frame	400 600	150 ... 400 200 ... 600	2.5 ... 30 2.5 ... 30	500 ... 4400 (11 x I_n) 750 ... 6000 (10 x I_n)	320/0.11 360/0.18	160/240/400 240/360/600	3VL4840-1PD30-□□□□ 3VL4860-1PD30-□□□□	1 1	1 1	unit unit	1CC 1CC
VL800 UL, MG frame	600 800	200 ... 600 300 ... 800	2.5 ... 30 2.5 ... 30	750 ... 6000 (10 x I_n) 1000 ... 6000 (7.5 x I_n)	360/0.18 480/0.25	240/360/600 320/480/800	3VL6160-1PD30-□□□□ 3VL6180-1PD30-□□□□	1 1	1 1	unit unit	1CC 1CC
VL1200 UL, NG frame	800 1000 1200	300 ... 800 400 ... 1000 400 ... 1200	2.5 ... 30 2.5 ... 30 2.5 ... 30	1000 ... 8800 (11 x I_n) 1250 ... 11000 (11 x I_n) 1500 ... 12000 (10 x I_n)	480/0.25 600/0.32 720/0.32	320/480/800 400/600/1000 480/720/1200	3VL7180-1PD30-□□□□ 3VL7110-1PD30-□□□□ 3VL7112-1PD30-□□□□	1 1 1	1 1 1	unit unit unit	1CC 1CC 1CC
VL1600 UL, PG frame ²⁾	1200 1600	400 ... 1200 700 ... 1600	2.5 ... 30 2.5 ... 30	1500 ... 12000 (10 x I_n) 2000 ... 9600 (6 x I_n)	720/0.32 960/0.4	480/720/1200 640/960/1200	3VL8112-1PD30-□□□□ 3VL8116-1PD30-□□□□	1 1	1 1	unit unit	1CC 1CC

L = overload

I = short-circuit protection, instantaneous

G = ground-fault protection

¹⁾ UL Category Code Number.

²⁾ Operation of the molded case circuit breakers within the applicable range of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/282).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

SD	High breaking capacity H, up to 65 kA at 480 V	(H)	SD	Very high breaking capacity L, up to 100 kA at 480 V	(L)
	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/256	Price per PU	PU (UNIT, SET, M)	PS	PG
d					

3VL2506-2PD30-□□□□	1	1 unit	1CC	3VL2506-3PD30-□□□□	1	1 unit	1CC
3VL2510-2PD30-□□□□	1	1 unit	1CC	3VL2510-3PD30-□□□□	1	1 unit	1CC
3VL2515-2PD30-□□□□	1	1 unit	1CC	3VL2515-3PD30-□□□□	1	1 unit	1CC
3VL3510-2PD30-□□□□	1	1 unit	1CC	3VL3510-3PD30-□□□□	1	1 unit	1CC
3VL3515-2PD30-□□□□	1	1 unit	1CC	3VL3515-3PD30-□□□□	1	1 unit	1CC
3VL3525-2PD30-□□□□	1	1 unit	1CC	3VL3525-3PD30-□□□□	1	1 unit	1CC
3VL4125-2PD30-□□□□	1	1 unit	1CC	3VL4125-3PD30-□□□□	1	1 unit	1CC
3VL4140-2PD30-□□□□	1	1 unit	1CC	3VL4140-3PD30-□□□□	1	1 unit	1CC
3VL4840-2PD30-□□□□	1	1 unit	1CC	3VL4840-3PD30-□□□□	1	1 unit	1CC
3VL4860-2PD30-□□□□	1	1 unit	1CC	3VL4860-3PD30-□□□□	1	1 unit	1CC
3VL6160-2PD30-□□□□	1	1 unit	1CC	3VL6160-3PD30-□□□□	1	1 unit	1CC
3VL6180-2PD30-□□□□	1	1 unit	1CC	3VL6180-3PD30-□□□□	1	1 unit	1CC
3VL7180-2PD30-□□□□	1	1 unit	1CC	3VL7180-3PD30-□□□□	1	1 unit	1CC
3VL7110-2PD30-□□□□	1	1 unit	1CC	3VL7110-3PD30-□□□□	1	1 unit	1CC
3VL7112-2PD30-□□□□	1	1 unit	1CC	3VL7112-3PD30-□□□□	1	1 unit	1CC
3VL8112-2PD30-□□□□	1	1 unit	1CC	3VL8112-3PD30-□□□□	1	1 unit	1CC
3VL8116-2PD30-□□□□	1	1 unit	1CC	3VL8116-3PD30-□□□□	1	1 unit	1CC

Molded Case Circuit Breakers

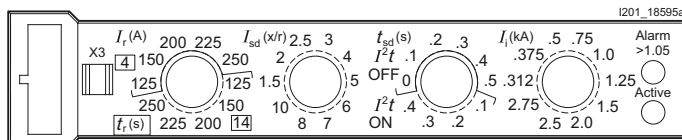
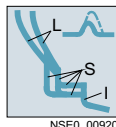
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Response time of the inverse-time delayed overload protection "L" t_r	Operating current of the instantaneous short-circuit protection "I" I_i	Operating current of the short-time delayed short-circuit protection "S" I_{sd}	SD	Standard breaking capacity N, up to 35 kA at 480 V See "Overview".	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	s	A	A	d	Article No. www.siemens.com/product?ArticleNo. Article No. supplement required, see page 2/256				

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) up to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN¹): DIVQ



Line and generator protection

With Electronic Trip Unit ETU (model 555)

LSI function ($t_{sd} = 0$ to 0.5 s)

Connection type:

Molded case circuit breakers without preassembled connections,

connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/271 to 2/274 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/275 to 2/282.

VL150 UL, DG frame	60 100 150	30 ... 60 40 ... 100 60 ... 150	4/14 4/14 4/14	75 ... 660 (11 × I_n) 125 ... 1100 (11 × I_n) 187 ... 1650 (11 × I_n)	1.5 ... 10 × I_r 1.5 ... 10 × I_r 1.5 ... 10 × I_r	3VL2506-1PE30-□□□□ 3VL2510-1PE30-□□□□ 3VL2515-1PE30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL250 UL, FG frame	100 150 250	40 ... 100 60 ... 150 125 ... 250	4/14 4/14 4/14	125 ... 1100 (11 × I_n) 187 ... 1650 (11 × I_n) 312 ... 2750 (11 × I_n)	1.5 ... 10 × I_r 1.5 ... 10 × I_r 1.5 ... 10 × I_r	3VL3510-1PE30-□□□□ 3VL3515-1PE30-□□□□ 3VL3525-1PE30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL400 UL, JG frame	250 400	125 ... 250 200 ... 400	4/14 10/20	312 ... 2750 (11 × I_n) 500 ... 4400 (11 × I_n)	1.5 ... 10 × I_r 1.5 ... 10 × I_r	3VL4125-1PE30-□□□□ 3VL4140-1PE30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL400X UL, LG frame	400 600	200 ... 400 350 ... 600	10/20 10/20	500 ... 4400 (11 × I_n) 750 ... 6000 (10 × I_n)	1.5 ... 10 × I_r 1.5 ... 10 × I_r	3VL4840-1PE30-□□□□ 3VL4860-1PE30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL800 UL, MG frame	600 800	350 ... 600 400 ... 800	10/20 10/20	750 ... 6000 (10 × I_n) 1000 ... 6000 (7.5 × I_n)	1.5 ... 10 × I_r 1.5 ... 10 × I_r	3VL6160-1PE30-□□□□ 3VL6180-1PE30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL1200 UL, NG frame	800 1000 1200	400 ... 800 600 ... 1000 700 ... 1200	10/20 10/20 10/20	1000 ... 8800 (11 × I_n) 1250 ... 11000 (11 × I_n) 1500 ... 12000 (10 × I_n)	1.5 ... 10 × I_r 1.5 ... 10 × I_r 1.5 ... 10 × I_r	3VL7180-1PE30-□□□□ 3VL7110-1PE30-□□□□ 3VL7112-1PE30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL1600 UL, PG frame ²⁾	1200 1600	700 ... 1200 1000 ... 1600	10/20 10/20	1500 ... 12000 (10 × I_n) 2000 ... 9600 (6 × I_n)	1.5 ... 10 × I_r 1.5 ... 10 × I_r	3VL8112-1PE30-□□□□ 3VL8116-1PE30-□□□□	1 1	1 unit 1 unit	1CC 1CC

L = overload

S = short-circuit protection, short-time delayed

I = short-circuit protection, instantaneous

¹⁾ UL Category Code Number.

²⁾ Operation of the molded case circuit breakers within the applicable range of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/282).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

SD	High breaking capacity H, up to 65 kA at 480 V (H)					SD	Very high breaking capacity L, up to 100 kA at 480 V (L)				
	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/256	Price per PU	PU (UNIT, SET, M)	PS	PG		Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/256	Price per PU	PU (UNIT, SET, M)	PS	PG
d						d					

3VL2506-2PE30-□□□□	1	1 unit	1CC			3VL2506-3PE30-□□□□	1	1 unit	1CC		
3VL2510-2PE30-□□□□	1	1 unit	1CC			3VL2510-3PE30-□□□□	1	1 unit	1CC		
3VL2515-2PE30-□□□□	1	1 unit	1CC			3VL2515-3PE30-□□□□	1	1 unit	1CC		
3VL3510-2PE30-□□□□	1	1 unit	1CC			3VL3510-3PE30-□□□□	1	1 unit	1CC		
3VL3515-2PE30-□□□□	1	1 unit	1CC			3VL3515-3PE30-□□□□	1	1 unit	1CC		
3VL3525-2PE30-□□□□	1	1 unit	1CC			3VL3525-3PE30-□□□□	1	1 unit	1CC		
3VL4125-2PE30-□□□□	1	1 unit	1CC			3VL4125-3PE30-□□□□	1	1 unit	1CC		
3VL4140-2PE30-□□□□	1	1 unit	1CC			3VL4140-3PE30-□□□□	1	1 unit	1CC		
3VL4840-2PE30-□□□□	1	1 unit	1CC			3VL4840-3PE30-□□□□	1	1 unit	1CC		
3VL4860-2PE30-□□□□	1	1 unit	1CC			3VL4860-3PE30-□□□□	1	1 unit	1CC		
3VL6160-2PE30-□□□□	1	1 unit	1CC			3VL6160-3PE30-□□□□	1	1 unit	1CC		
3VL6180-2PE30-□□□□	1	1 unit	1CC			3VL6180-3PE30-□□□□	1	1 unit	1CC		
3VL7180-2PE30-□□□□	1	1 unit	1CC			3VL7180-3PE30-□□□□	1	1 unit	1CC		
3VL7110-2PE30-□□□□	1	1 unit	1CC			3VL7110-3PE30-□□□□	1	1 unit	1CC		
3VL7112-2PE30-□□□□	1	1 unit	1CC			3VL7112-3PE30-□□□□	1	1 unit	1CC		
3VL8112-2PE30-□□□□	1	1 unit	1CC			3VL8112-3PE30-□□□□	1	1 unit	1CC		
3VL8116-2PE30-□□□□	1	1 unit	1CC			3VL8116-3PE30-□□□□	1	1 unit	1CC		

Molded Case Circuit Breakers

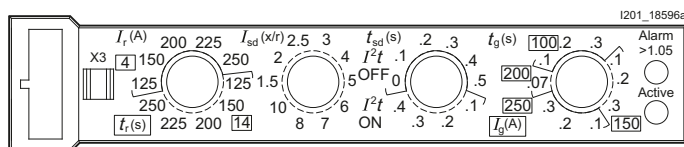
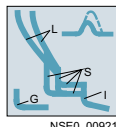
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Response time of the inverse-time delayed overload protection "L" t_r	Operating current of the instantaneous short-circuit protection "I" I_i	Operating current of the short-time delayed short-circuit protection "S" I_{sd}	Standard setting of I_g/A and I_g/s	t_g/s adjustable to 0.1, 0.2 and 0.3 s for following I_g/A	SD	Standard breaking capacity N, up to 35 kA at 480 V See "Overview".	Article No. www.siemens.com/product?ArticleNo	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	A	s	A	A			d		Article No. supplement required, see page 2/256				

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) up to VL1600 UL (PG frame), Electronic Trip Units (UL file: E10848, CCN¹): DIVQ



Line and generator protection

With Electronic Trip Unit ETU (model 555)
LSIG function ($t_{sd} = 0$ to 0.5 s)
for 4-wire three-phase systems (vectorial summation current formation)
Connection type:

Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/271 to 2/274 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/275 to 2/282.
Current transformers must be ordered under "Accessories", page 2/290.

VL150 UL, DG frame	60	30 ... 60	4/14	300/660 (5/11 × I_n)	1.5 ... 10 × I_r	48/0.07	24/36/60	3VL2506-1PH30-□□□□	1	1 unit	1CC
	100	40 ... 100	4/14	500/1100 (5/11 × I_n)	1.5 ... 10 × I_r	80/0.07	40/60/100	3VL2510-1PH30-□□□□	1	1 unit	1CC
	150	60 ... 150	4/14	750/1650 (5/11 × I_n)	1.5 ... 10 × I_r	120/0.07	60/90/150	3VL2515-1PH30-□□□□	1	1 unit	1CC
VL250 UL, FG frame	100	40 ... 100	4/14	500/1100 (5/11 × I_n)	1.5 ... 10 × I_r	80/0.07	40/60/100	3VL3510-1PH30-□□□□	1	1 unit	1CC
	150	60 ... 150	4/14	750/1650 (5/11 × I_n)	1.5 ... 10 × I_r	120/0.07	60/90/150	3VL3515-1PH30-□□□□	1	1 unit	1CC
	250	125 ... 250	4/14	1250/2750 (5/11 × I_n)	1.5 ... 10 × I_r	200/0.07	100/150/250	3VL3525-1PH30-□□□□	1	1 unit	1CC
VL400 UL, JG frame	250	125 ... 250	4/14	1250/2750 (5/11 × I_n)	1.5 ... 10 × I_r	200/0.07	100/150/250	3VL4125-1PH30-□□□□	1	1 unit	1CC
	400	200 ... 400	10/20	2000/4400 (5/11 × I_n)	1.5 ... 10 × I_r	320/0.11	160/240/400	3VL4140-1PH30-□□□□	1	1 unit	1CC
VL400X UL, LG frame	400	200 ... 400	10/20	2000/4400 (5/11 × I_n)	1.5 ... 10 × I_r	320/0.11	160/240/400	3VL4840-1PH30-□□□□	1	1 unit	1CC
	600	350 ... 600	10/20	3000/6000 (5/10 × I_n)	1.5 ... 10 × I_r	360/0.18	240/360/600	3VL4860-1PH30-□□□□	1	1 unit	1CC
VL800 UL, MG frame	600	350 ... 600	10/20	3000/6000 (5/10 × I_n)	1.5 ... 10 × I_r	360/0.18	240/360/600	3VL6160-1PH30-□□□□	1	1 unit	1CC
	800	400 ... 800	10/20	4000/6000 (5/7.5 × I_n)	1.5 ... 10 × I_r	480/0.25	320/480/800	3VL6180-1PH30-□□□□	1	1 unit	1CC
VL1200 UL, NG frame	800	400 ... 800	10/20	4000/8800 (5/11 × I_n)	1.5 ... 10 × I_r	480/0.25	320/480/800	3VL7180-1PH30-□□□□	1	1 unit	1CC
	1000	600 ... 1000	10/20	5000/11000 (5/11 × I_n)	1.5 ... 10 × I_r	600/0.32	400/600/1000	3VL7110-1PH30-□□□□	1	1 unit	1CC
	1200	700 ... 1200	10/20	6000/12000 (5/10 × I_n)	1.5 ... 10 × I_r	720/0.32	480/720/1200	3VL7112-1PH30-□□□□	1	1 unit	1CC
VL1600 UL, PG frame ²⁾	1200	700 ... 1200	10/20	6000/12000 (5/10 × I_n)	1.5 ... 10 × I_r	720/0.32	480/720/1200	3VL8112-1PH30-□□□□	1	1 unit	1CC
	1600	1000...1600	10/20	8000/9600 (5/6 × I_n)	1.5 ... 10 × I_r	960/0.4	640/960/1200	3VL8116-1PH30-□□□□	1	1 unit	1CC

L = overload

S = short-circuit protection, short-time delayed

I = short-circuit protection, instantaneous

G = ground-fault protection

¹⁾ UL Category Code Number.

²⁾ Operation of the molded case circuit breakers within the applicable range of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/282).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

SD	High breaking capacity H, up to 65 kA at 480 V (H)	SD	Very high breaking capacity L, up to 100 kA at 480 V (L)						
d	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/256	d	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/256						
	Price per PU	PU (UNIT, SET, M)	PS	PG		Price per PU	PU (UNIT, SET, M)	PS	PG

3VL2506-2PH30-□□□□	1	1 unit	1CC		3VL2506-3PH30-□□□□	1	1 unit	1CC	
3VL2510-2PH30-□□□□	1	1 unit	1CC		3VL2510-3PH30-□□□□	1	1 unit	1CC	
3VL2515-2PH30-□□□□	1	1 unit	1CC		3VL2515-3PH30-□□□□	1	1 unit	1CC	
3VL3510-2PH30-□□□□	1	1 unit	1CC		3VL3510-3PH30-□□□□	1	1 unit	1CC	
3VL3515-2PH30-□□□□	1	1 unit	1CC		3VL3515-3PH30-□□□□	1	1 unit	1CC	
3VL3525-2PH30-□□□□	1	1 unit	1CC		3VL3525-3PH30-□□□□	1	1 unit	1CC	
3VL4125-2PH30-□□□□	1	1 unit	1CC		3VL4125-3PH30-□□□□	1	1 unit	1CC	
3VL4140-2PH30-□□□□	1	1 unit	1CC		3VL4140-3PH30-□□□□	1	1 unit	1CC	
3VL4840-2PH30-□□□□	1	1 unit	1CC		3VL4840-3PH30-□□□□	1	1 unit	1CC	
3VL4860-2PH30-□□□□	1	1 unit	1CC		3VL4860-3PH30-□□□□	1	1 unit	1CC	
3VL6160-2PH30-□□□□	1	1 unit	1CC		3VL6160-3PH30-□□□□	1	1 unit	1CC	
3VL6180-2PH30-□□□□	1	1 unit	1CC		3VL6180-3PH30-□□□□	1	1 unit	1CC	
3VL7180-2PH30-□□□□	1	1 unit	1CC		3VL7180-3PH30-□□□□	1	1 unit	1CC	
3VL7110-2PH30-□□□□	1	1 unit	1CC		3VL7110-3PH30-□□□□	1	1 unit	1CC	
3VL7112-2PH30-□□□□	1	1 unit	1CC		3VL7112-3PH30-□□□□	1	1 unit	1CC	
3VL8112-2PH30-□□□□	1	1 unit	1CC		3VL8112-3PH30-□□□□	1	1 unit	1CC	
3VL8116-2PH30-□□□□	1	1 unit	1CC		3VL8116-3PH30-□□□□	1	1 unit	1CC	

Molded Case Circuit Breakers

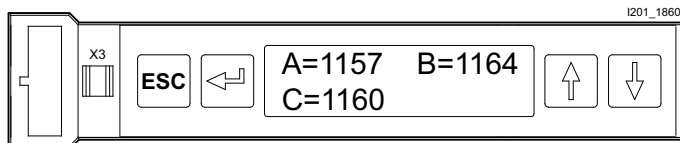
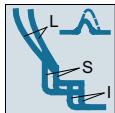
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

2

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	Standard breaking capacity N, up to 35 kA at 480 V See "Overview".	(N)			
	A	A	A	d	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/256	Price per PU	PU (UNIT, SET, M)	PS	PG

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) up to VL1600 UL (PG frame), up to 1600 A Electronic Trip Units (UL file: E10848, CCN¹): DIVQ



Molded case circuit breakers with Electronic Trip Units with LCD, line protection with L/LS/LSI function

- Connection type:
Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/271 to 2/274 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/275 to 2/282.
- $t_{sd} = 0$ to 0.5 s
- t_f/s : 2.5, 4, 6, 8, 10, 14, 17, 20, 25, 30
- I_{sd}/A : 1.25 to $10 \times I_r^{(2)}$
- Pre-alarm % of I_r : 80 to 100

VL150 UL, DG frame	60 100 150	30 ... 60 40 ... 100 60 ... 150	75 ... 660 ($11 \times I_n$) 125 ... 1100 ($11 \times I_n$) 187 ... 1650 ($11 \times I_n$)	3VL2506-1VH30-□□□□ 3VL2510-1VH30-□□□□ 3VL2515-1VH30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL250 UL, FG frame	100 150 250	40 ... 100 60 ... 150 70 ... 250	125 ... 1100 ($11 \times I_n$) 187 ... 1650 ($11 \times I_n$) 312 ... 2750 ($11 \times I_n$)	3VL3510-1VH30-□□□□ 3VL3515-1VH30-□□□□ 3VL3525-1VH30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL400 UL, JG frame	250 400	70 ... 250 150 ... 400	312 ... 2750 ($11 \times I_n$) 500 ... 4400 ($11 \times I_n$)	3VL4125-1VH30-□□□□ 3VL4140-1VH30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL400X UL, LG frame	400 600	150 ... 400 200 ... 600	500 ... 4400 ($11 \times I_n$) 750 ... 6000 ($10 \times I_n$)	3VL4840-1VH30-□□□□ 3VL4860-1VH30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL800 UL, MG frame	600 800	200 ... 600 300 ... 800	750 ... 6000 ($10 \times I_n$) 1000 ... 6000 ($7.5 \times I_n$)	3VL6160-1VH30-□□□□ 3VL6180-1VH30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL1200 UL, NG frame	800 1000 1200	300 ... 800 400 ... 1000 400 ... 1200	1000 ... 8800 ($11 \times I_n$) 1250 ... 11000 ($11 \times I_n$) 1500 ... 12000 ($10 \times I_n$)	3VL7180-1VH30-□□□□ 3VL7110-1VH30-□□□□ 3VL7112-1VH30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL1600 UL, PG frame ³⁾	1200 1600	400 ... 1200 700 ... 1600	1500 ... 12000 ($10 \times I_n$) 2000 ... 9600 ($6 \times I_n$)	3VL8112-1VH30-□□□□ 3VL8116-1VH30-□□□□	1 1	1 unit 1 unit	1CC 1CC

L = overload

S = short-circuit protection, short-time delayed

I = short-circuit protection, instantaneous

¹⁾ UL Category Code Number.

²⁾ Only for sizes for which I_i (max) = $11 \times I_n$. Here the factor is 11. Otherwise the following applies:
 I_{sd} (max) = (factor-1) $\times I_r$ (max). The factor is the value in brackets in the column I_i .

³⁾ Operation of the molded case circuit breakers within the applicable range of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/282).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

SD	High breaking capacity H, up to 65 kA at 480 V (H)	SD	Very high breaking capacity L, up to 100 kA at 480 V (L)
	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/256		Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/256
	Price per PU		Price per PU
	PU (UNIT, SET, M)		PU (UNIT, SET, M)
	PS		PS
	PG		PG
d		d	

3VL2506-2VH30-□□□□	1	1 unit	1CC	3VL2506-3VH30-□□□□	1	1 unit	1CC
3VL2510-2VH30-□□□□	1	1 unit	1CC	3VL2510-3VH30-□□□□	1	1 unit	1CC
3VL2515-2VH30-□□□□	1	1 unit	1CC	3VL2515-3VH30-□□□□	1	1 unit	1CC
3VL3510-2VH30-□□□□	1	1 unit	1CC	3VL3510-3VH30-□□□□	1	1 unit	1CC
3VL3515-2VH30-□□□□	1	1 unit	1CC	3VL3515-3VH30-□□□□	1	1 unit	1CC
3VL3525-2VH30-□□□□	1	1 unit	1CC	3VL3525-3VH30-□□□□	1	1 unit	1CC
3VL4125-2VH30-□□□□	1	1 unit	1CC	3VL4125-3VH30-□□□□	1	1 unit	1CC
3VL4140-2VH30-□□□□	1	1 unit	1CC	3VL4140-3VH30-□□□□	1	1 unit	1CC
3VL4840-2VH30-□□□□	1	1 unit	1CC	3VL4840-3VH30-□□□□	1	1 unit	1CC
3VL4860-2VH30-□□□□	1	1 unit	1CC	3VL4860-3VH30-□□□□	1	1 unit	1CC
3VL6160-2VH30-□□□□	1	1 unit	1CC	3VL6160-3VH30-□□□□	1	1 unit	1CC
3VL6180-2VH30-□□□□	1	1 unit	1CC	3VL6180-3VH30-□□□□	1	1 unit	1CC
3VL7180-2VH30-□□□□	1	1 unit	1CC	3VL7180-3VH30-□□□□	1	1 unit	1CC
3VL7110-2VH30-□□□□	1	1 unit	1CC	3VL7110-3VH30-□□□□	1	1 unit	1CC
3VL7112-2VH30-□□□□	1	1 unit	1CC	3VL7112-3VH30-□□□□	1	1 unit	1CC
3VL8112-2VH30-□□□□	1	1 unit	1CC	3VL8112-3VH30-□□□□	1	1 unit	1CC
3VL8116-2VH30-□□□□	1	1 unit	1CC	3VL8116-3VH30-□□□□	1	1 unit	1CC

Molded Case Circuit Breakers

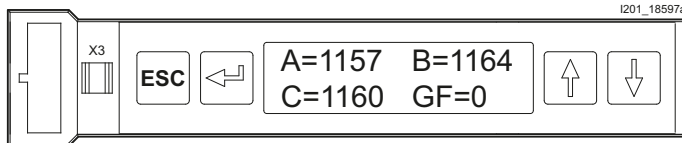
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

2

Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	Operating current of the instantaneous short-circuit protection "I" I_i	I_g in % of I_n	SD	Standard breaking capacity N, up to 35 kA at 480 V See "Overview".	(N)			
	A	A	A		d	Article No. www.siemens.com/product?Article No. Article No. supplement required, see page 2/256	Price per PU	PU (UNIT, SET, M)	PS	PG

Fixed-mounted molded case circuit breakers, VL150 UL (DG frame) up to VL1600 UL (PG frame), up to 1600 A Electronic Trip Units (UL file: E10848, CCN¹): DIVQ



Molded case circuit breakers with Electronic Trip Unit with LCD, line protection with LSIG function or LSIG (alarm) function

- Connection type:
Molded case circuit breakers without preassembled connections, connections must be ordered under "Accessories", "Plug-in versions/withdrawable versions", pages 2/271 to 2/274 or under "Accessories", "Connection parts for fixed-mounted molded case circuit breakers", pages 2/275 to 2/282.
- t_f/s : 2.5, 4, 6, 8, 10, 14, 17, 20, 25, 30
- I_{sd}/A : 1.25 to $10 \times I_r^{(2)}$
- Pre-alarm % of I_r : 80 to 100
- t_g/s : 0.1; 0.2; 0.3; 0.4; 0.5

VL150 UL, DG frame	60 100 150	30 ... 60 40 ... 100 60 ... 150	75 ... 660 (11 x I_n) 125 ... 1100 (11 x I_n) 187 ... 1650 (11 x I_n)	40 ... 100 40 ... 100 40 ... 100	3VL2506-1□□30-□□□□ 3VL2510-1□□30-□□□□ 3VL2515-1□□30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL250 UL, FG frame	100 150 250	40 ... 100 60 ... 150 70 ... 250	125 ... 1100 (11 x I_n) 187 ... 1650 (11 x I_n) 312 ... 2750 (11 x I_n)	40 ... 100 40 ... 100 40 ... 100	3VL3510-1□□30-□□□□ 3VL3515-1□□30-□□□□ 3VL3525-1□□30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL400 UL, JG frame	250 400	70 ... 250 150 ... 400	312 ... 2750 (11 x I_n) 500 ... 4400 (11 x I_n)	40 ... 100 40 ... 100	3VL4125-1□□30-□□□□ 3VL4140-1□□30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL400X UL, LG frame	400 600	150 ... 400 200 ... 600	500 ... 4400 (11 x I_n) 750 ... 6000 (10 x I_n)	40 ... 100 40 ... 100	3VL4840-1□□30-□□□□ 3VL4860-1□□30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL800 UL, MG frame	600 800	200 ... 600 300 ... 800	750 ... 6000 (10 x I_n) 1000 ... 6000 (7.5 x I_n)	40 ... 100 40 ... 100	3VL6160-1□□30-□□□□ 3VL6180-1□□30-□□□□	1 1	1 unit 1 unit	1CC 1CC
VL1200 UL, NG frame	800 1000 1200	300 ... 800 400 ... 1000 400 ... 1200	1000 ... 8800 (11 x I_n) 1250 ... 11000 (11 x I_n) 1500 ... 12000 (10 x I_n)	40 ... 100 40 ... 100 40 ... 100	3VL7180-1□□30-□□□□ 3VL7110-1□□30-□□□□ 3VL7112-1□□30-□□□□	1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC
VL1600 UL, PG frame ³⁾	1200 1600	400 ... 1200 700 ... 1600	1500 ... 12000 (10 x I_n) 2000 ... 9600 (6 x I_n)	40 ... 100 40 ... 75	3VL8112-1□□30-□□□□ 3VL8116-1□□30-□□□□	1 1	1 unit 1 unit	1CC 1CC

Electronic Trip Units with LCD, 3-pole version

Line protection with LSIG function

For 4-wire three-phase systems
(vectorial summation current formation)
 $t_{sd} = 0$ to 0.5 s, $t_g = 0$ to 0.5 s

VM

Line protection with LSIG (alarm) function

For 4-wire three-phase systems
(vectorial summation current formation)
 $t_{sd} = 0$ to 0.5 s, $t_g = 0$ to 0.5 s

VJ

- L = overload
S = short-circuit protection, short-time delayed
I = short-circuit protection, instantaneous
G = ground-fault protection

- 1) UL Category Code Number.
- 2) Only for sizes for which I_i (max) = $11 \times I_n$. Here the factor is 11. Otherwise the following applies: I_{sd} (max) = (factor-1) x I_r (max). The factor is the value in brackets in the column I_i .
- 3) Operation of the molded case circuit breakers within the applicable range of UL 489/CSA is permitted only in conjunction with the mounting base (see page 2/282).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

3-pole

2

SD	High breaking capacity H, up to 65 kA at 480 V	(H)	SD	Very high breaking capacity L, up to 100 kA at 480 V	(L)
	Article No. www.siemens.com/ product?Article No. Article No. supplement required, see page 2/256	Price per PU	PU (UNIT, SET, M)	PS	PG
d					

3VL2506-2□□30-□□□□	1	1 unit	1CC	3VL2506-3□□30-□□□□	1	1 unit	1CC
3VL2510-2□□30-□□□□	1	1 unit	1CC	3VL2510-3□□30-□□□□	1	1 unit	1CC
3VL2515-2□□30-□□□□	1	1 unit	1CC	3VL2515-3□□30-□□□□	1	1 unit	1CC
3VL3510-2□□30-□□□□	1	1 unit	1CC	3VL3510-3□□30-□□□□	1	1 unit	1CC
3VL3515-2□□30-□□□□	1	1 unit	1CC	3VL3515-3□□30-□□□□	1	1 unit	1CC
3VL3525-2□□30-□□□□	1	1 unit	1CC	3VL3525-3□□30-□□□□	1	1 unit	1CC
3VL4125-2□□30-□□□□	1	1 unit	1CC	3VL4125-3□□30-□□□□	1	1 unit	1CC
3VL4140-2□□30-□□□□	1	1 unit	1CC	3VL4140-3□□30-□□□□	1	1 unit	1CC
3VL4840-2□□30-□□□□	1	1 unit	1CC	3VL4840-3□□30-□□□□	1	1 unit	1CC
3VL4860-2□□30-□□□□	1	1 unit	1CC	3VL4860-3□□30-□□□□	1	1 unit	1CC
3VL6160-2□□30-□□□□	1	1 unit	1CC	3VL6160-3□□30-□□□□	1	1 unit	1CC
3VL6180-2□□30-□□□□	1	1 unit	1CC	3VL6180-3□□30-□□□□	1	1 unit	1CC
3VL7180-2□□30-□□□□	1	1 unit	1CC	3VL7180-3□□30-□□□□	1	1 unit	1CC
3VL7110-2□□30-□□□□	1	1 unit	1CC	3VL7110-3□□30-□□□□	1	1 unit	1CC
3VL7112-2□□30-□□□□	1	1 unit	1CC	3VL7112-3□□30-□□□□	1	1 unit	1CC
3VL8112-2□□30-□□□□	1	1 unit	1CC	3VL8112-3□□30-□□□□	1	1 unit	1CC
3VL8116-2□□30-□□□□	1	1 unit	1CC	3VL8116-3□□30-□□□□	1	1 unit	1CC



Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Options

Selection and ordering data

1st Article No. supplement: Undervoltage and shunt releases, wiring directly to accessories

Rated control supply voltage U_s /frequency	Article No. supplement	Molded case circuit breakers	
50/60 Hz AC DC	3VL.....-.....- □ □ ..	Type VL150X UL (CG frame) to VL400X UL (LG frame) ¹⁾	VL800 UL (MG frame) to VL1600 UL (PG frame)
		Additional price	Additional price
Without auxiliary releases	0 A	None	None
With undervoltage release Right pole only			
V AC	V DC		
--	12	2 N ✓ ¹⁾	✓
--	24	2 P ✓ ¹⁾	✓
--	48	2 U ✓ ¹⁾	✓
--	60	2 V ✓ ¹⁾	✓
--	110-127	2 R ✓ ¹⁾	✓
--	220-250	2 S ✓ ¹⁾	✓
24	--	2 D ²⁾ ✓ ¹⁾	--
110-127	--	2 G ✓ ¹⁾	✓
220-250	--	2 H ✓ ¹⁾	✓
208	--	2 M ✓ ¹⁾	✓
277	--	2 Q ✓ ¹⁾	✓
380-415	--	2 J ✓ ¹⁾	✓
440-480	--	2 K ✓ ¹⁾	✓
500-525	--	2 L ²⁾ ✓ ¹⁾	--
With shunt release Right pole only			
V AC	V DC		
--	24	8 C ✓ ¹⁾	✓
--	48-60	8 J ✓ ¹⁾	✓
--	110-127	8 K ✓ ¹⁾	✓
--	220-250	8 Q ✓ ¹⁾	✓
48-60	--	8 M ✓ ¹⁾	✓
110-127	--	8 R ✓ ¹⁾	✓
208-277	--	8 T ✓ ¹⁾	✓
380-600	--	8 V ✓ ¹⁾	✓

2nd Article No. supplement: Auxiliary switches (HS) and alarm switches (AS), left/right pole, wiring directly to accessories

Equipment	Article No. supplement	Molded case circuit breakers	
HS = 1 NO or 1 NC contact block AS = 1 NO contact block	3VL.....-.....- □ □	Type VL150X UL (CG frame) to VL400X UL (LG frame)	VL800 UL (MG frame) to VL1600 UL (PG frame)
		Additional price	Additional price
Without auxiliary/alarm switches	A 0	None	None
2 HS (1 NO/1 NC) ³⁾	B 1	✓ ⁴⁾	--
4 HS (2 NO/2 NC)	C 1	--	✓
2 HS (1 NO/1 NC) + 1 AS (1 NO)	D 1	✓ ⁴⁾	--
2 HS (1 NO/1 NC) + 1 AS (1 NO) ⁵⁾	E 1	--	✓

-- Not available

- 1) Only an undervoltage release or a shunt release or an auxiliary/alarm switch combination is possible for VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with an Electronic Trip Unit.
- 2) Not for VL800 UL (MG frame), VL1200 UL (NG frame) and VL1600 UL (PG frame) molded case circuit breakers.
- 3) Up to 3 HS are possible with a mounting adapter.
- 4) Except for installation in the left accessory compartment of the VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with Electronic Trip Unit because this compartment is fitted with the tripping solenoid.
Only an auxiliary release or an auxiliary/alarm switch combination can be installed on the right.
- 5) Up to 2 HS + 2 AS are possible with a mounting adapter.

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)

+ . . . + . . .

Additional price

Code for further versions -Z

For fixed-mounted molded case circuit breakers (wired in factory)				
Wiring for internal accessories (Auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply) with connecting cables (3 m long) brought out at the rear	VL150X UL (CG frame) to VL1600 UL (PG frame)	L	0 2	✓
Wiring for motorized operating mechanisms (Motorized operating mechanism not included in scope of supply, for selection and ordering data, see pages 2/262 to 2/270) with connecting cables (3 m long) or brought out at the top in the case of VL150X UL (CG frame) to VL400X UL (LG frame) or brought out at the right in the case of VL800 UL (MG frame) to VL1600 UL (PG frame)	VL150X UL (CG frame) to VL1600 UL (PG frame)	L	1 2	✓
Motorized operating mechanisms (24 V DC) Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply) with wiring for internal accessories of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply)	VL150X UL (CG frame) to VL250 UL (FG frame)	M	2 4	✓
	VL400 UL (JG frame) to VL400X UL (LG frame)			✓
	VL800 UL (MG frame)			✓
	VL1200 UL (NG frame) to VL1600 UL (PG frame)			✓
Motorized operating mechanisms (42-48 V AC/DC) Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply) with wiring for internal accessories of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply)	VL150X UL (CG frame) to VL250 UL (FG frame)	M	4 2	✓
	VL400 UL (JG frame) to VL400X UL (LG frame)			✓
	VL800 UL (MG frame)			✓
	VL1200 UL (NG frame) to VL1600 UL (PG frame)			✓
Motorized operating mechanisms (60 V AC/DC) Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply) with wiring for internal accessories of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply)	VL150X UL (CG frame) to VL250 UL (FG frame)	M	6 0	✓
	VL400 UL (JG frame) to VL400X UL (LG frame)			✓
	VL800 UL (MG frame)			✓
	VL1200 UL (NG frame) to VL1600 UL (PG frame)			✓
Motorized operating mechanisms (110-127 V AC/DC) Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply) with wiring for internal accessories of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply)	VL150X UL (CG frame) to VL250 UL (FG frame)	M	1 1	✓
	VL400 UL (JG frame) to VL400X UL (LG frame)			✓
	VL800 UL (MG frame)			✓
	VL1200 UL (NG frame) to VL1600 UL (PG frame)			✓
Motorized operating mechanisms (220-250 V AC/DC) Mounted on molded case circuit breaker (motorized operating mechanism included in the scope of supply) with wiring for internal accessories of the molded case circuit breaker with connecting cables (3 m long) brought out at the rear (auxiliary switches, alarm switches, or auxiliary releases not included in scope of supply)	VL150X UL (CG frame) to VL250 UL (FG frame)	M	2 2	✓
	VL400 UL (JG frame) to VL400X UL (LG frame)			✓
	VL800 UL (MG frame)			✓
	VL1200 UL (NG frame) to VL1600 UL (PG frame)			✓

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

Selection and ordering data

Wiring directly to accessories	SD	For VL150X UL (CG frame) to VL400X UL (LG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?Article.No.	Price per PU		

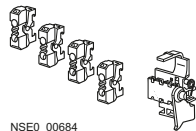
Auxiliary switches and auxiliary releases (UL file: E69455)

3-pole

Auxiliary switches (HS) and alarm switches (AS)

For retrofitting

Assembly kits	Mounting side				
2 HS (1 NO + 1 NC)	Left ¹⁾ , right	3VL9400-2AB01	1	1 unit	1CC
4 HS (2 NO + 2 NC)	Left, right	--			
2 HS (1 NC + 1 NO) + 1 AS (1 NO) (assembly kit)	Left, right ²⁾ Left	3VL9400-2AD01 --	1	1 unit	1CC



NSE0_00684
3VL9400-2A.01

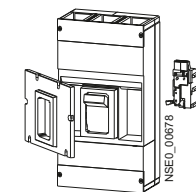
Additional auxiliary switch/alarm switch combinations

[See page 2/260.](#)

Shunt releases

For retrofitting

V AC	V DC	Mounting side			
--	24	Right pole only	3VL9400-1SC01	1	1 unit 1CC
--	48 ... 60	Right pole only	3VL9400-1SJ01	1	1 unit 1CC
--	110 ... 127	Right pole only	3VL9400-1SK01	1	1 unit 1CC
--	220 ... 250	Right pole only	3VL9400-1SQ01	1	1 unit 1CC
48 ... 60	--	Right pole only	3VL9400-1SM01	1	1 unit 1CC
110 ... 127	--	Right pole only	3VL9400-1SR01	1	1 unit 1CC
208 ... 277	--	Right pole only	3VL9400-1ST01	1	1 unit 1CC
380 ... 600	--	Right pole only	3VL9400-1SV01	1	1 unit 1CC



3VL9400-1S.01,
3VL9400 1U.01

Undervoltage releases

For retrofitting

V AC	V DC	Mounting side			
--	12	Right pole only	3VL9400-1UN01	1	1 unit 1CC
--	24	Right pole only	3VL9400-1UP01	1	1 unit 1CC
--	48	Right pole only	3VL9400-1UU01	1	1 unit 1CC
--	60	Right pole only	3VL9400-1UV01	1	1 unit 1CC
24	--	Right pole only	3VL9400-1UD01	1	1 unit 1CC
110 ... 127	--	Right pole only	3VL9400-1UG01	1	1 unit 1CC
--	110 ... 127	Right pole only	3VL9400-1UR01	1	1 unit 1CC
208	--	Right pole only	3VL9400-1UM01	1	1 unit 1CC
220 ... 250	--	Right pole only	3VL9400-1UH01	1	1 unit 1CC
--	220 ... 250	Right pole only	3VL9400-1US01	1	1 unit 1CC
277	--	Right pole only	3VL9400-1UQ01	1	1 unit 1CC
380 ... 415	--	Right pole only	3VL9400-1UJ01	1	1 unit 1CC
440 ... 480	--	Right pole only	3VL9400-1UK01	1	1 unit 1CC
500 ... 525	--	Right pole only	3VL9400-1UL01	1	1 unit 1CC

¹⁾ Except for installation in the left accessory compartment of the VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with Electronic Trip Unit because this compartment is fitted with the tripping solenoid.

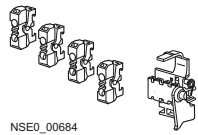
²⁾ In the case of VL400 UL (JG frame)/VL400X UL (LG frame): Unsuitable for mounting in the right accessory compartment. The 3VL9400-2AB01 assembly kit with auxiliary switches only is recommended.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

Wiring directly to accessories	SD	For VL800 UL (MG frame) to VL1600 UL (PG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?Article No.	Price per PU		
	d				

Auxiliary switches and auxiliary releases
(UL file: E69455)

NSE0_00684

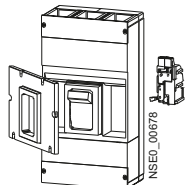
3VL9800-2A.01

3-pole**Auxiliary switches (HS) and alarm switches (AS)**

For retrofitting

Assembly kits	Mounting side				
2 HS (1 NO + 1 NC)	Left, right	--			
4 HS (2 NO + 2 NC)	Left, right	3VL9800-2AC01	1	1 unit	1CC
2 HS (1 NC + 1 NO) + 1 AS (1 NO) (assembly kit)	Left, right Left	3VL9800-2AE01	1	1 unit	1CC

Additional auxiliary switch/alarm switch combinations

[See page 2/260.](#)3VL9800-1S.01,
3VL9800-1U.01**Shunt releases**

For retrofitting

V AC	V DC	Mounting side			
--	24	Right pole only	3VL9800-1SC01	1	1 unit 1CC
--	48 ... 60	Right pole only	3VL9800-1SJ01	1	1 unit 1CC
--	110 ... 127	Right pole only	3VL9800-1SK01	1	1 unit 1CC
--	220 ... 250	Right pole only	3VL9800-1SQ01	1	1 unit 1CC
48 ... 60	--	Right pole only	3VL9800-1SM01	1	1 unit 1CC
110 ... 127	--	Right pole only	3VL9800-1SR01	1	1 unit 1CC
208 ... 277	--	Right pole only	3VL9800-1ST01	1	1 unit 1CC
380 ... 600	--	Right pole only	3VL9800-1SV01	1	1 unit 1CC

Undervoltage releases

For retrofitting

V AC	V DC	Mounting side			
--	12	Right pole only	3VL9800-1UN01	1	1 unit 1CC
--	24	Right pole only	3VL9800-1UP01	1	1 unit 1CC
--	48	Right pole only	3VL9800-1UU01	1	1 unit 1CC
--	60	Right pole only	3VL9800-1UV01	1	1 unit 1CC
110 ... 127	--	Right pole only	3VL9800-1UG01	1	1 unit 1CC
--	110 ... 127	Right pole only	3VL9800-1UR01	1	1 unit 1CC
208	--	Right pole only	3VL9800-1UM01	1	1 unit 1CC
220 ... 250	--	Right pole only	3VL9800-1UH01	1	1 unit 1CC
--	220 ... 250	Right pole only	3VL9800-1US01	1	1 unit 1CC
277	--	Right pole only	3VL9800-1UQ01	1	1 unit 1CC
380 ... 415	--	Right pole only	3VL9800-1UJ01	1	1 unit 1CC
440 ... 480	--	Right pole only	3VL9800-1UK01	1	1 unit 1CC
500 ... 525	--	Right pole only	--		

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

For molded case circuit breakers	Maximum combination of auxiliary switches (HS) and alarm switches (AS)	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Type		d					

3SB adapters and 3SB contact blocks

Mounting adapters for auxiliary and alarm switch combinations (UL file: E69455)

For installation in the left pole of the molded case circuit breaker

VL150X UL (CG frame), VL150 UL (DG frame), VL250 UL (FG frame), VL400 UL (JG frame), VL400X UL (LG frame)	Up to 3 HS ¹⁾		3VL9400-2AH01		1	1 unit	1CC
	2 HS + 1 AS ¹⁾²⁾		3VL9400-2AJ11		1	1 unit	1CC
VL800 UL (MG frame), VL1200 UL (NG frame), VL1600 UL (PG frame)	Up to 4 HS		3VL9816-2AL01		1	1 unit	1CC
	2 HS + 2 AS		3VL9816-2AN11		1	1 unit	1CC

For installation in the right pole of the molded case circuit breaker

VL150X UL (CG frame), VL150 UL (DG frame), VL250 UL (FG frame), VL400 UL (JG frame), VL400X UL (LG frame) ²⁾	Up to 3 HS ¹⁾		3VL9400-2AH01		1	1 unit	1CC
	2 HS + 1 AS ¹⁾²⁾		3VL9400-2AJ21		1	1 unit	1CC
VL800 UL (MG frame), VL1200 UL (NG frame), VL1600 UL (PG frame)	Up to 4 HS		3VL9816-2AL01		1	1 unit	1CC
	2 HS + 2 AS		--				

¹⁾ Except for installation in the left pole of the VL150 UL (DG frame)/VL250 UL (FG frame) molded case circuit breakers with Electronic Trip Unit. Only an auxiliary release or an auxiliary/alarm switch combination can be installed on the right.

²⁾ In the case of VL400 UL (JG frame)/VL400X UL (LG frame): 3VL9400-2AJ21 unsuitable for mounting in the right-hand accessory compartment.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

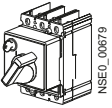
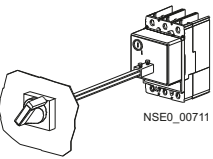
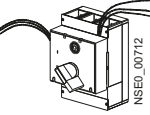
Accessories and spare parts

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL150X UL (CG frame) to VL250 UL (FG frame)	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.	Price per PU		
Operating mechanisms					
 NSE0_00679 3VL9.00-3H.01	3-pole Front-operated rotary operating mechanisms (UL file: E69455) For direct mounting on the molded case circuit breaker, without leading auxiliary switch, degree of protection IP30 ¹⁾ , black EMERGENCY-STOP version Red knob, yellow indicator plate For safety locks for installation by the customer, see pages 2/283 to 2/287.		3VL9300-3HA01	1	1 unit 1CC
			3VL9300-3HC01	1	1 unit 1CC
 NSE0_00711 3VL9.00-3H.06	Door-coupling rotary operating mechanisms, complete Installation in doors and covers (UL file: E69455) NEMA 1, 12 Degree of protection IP65, including black knob with masking plate, indicator plate, removable door coupling, extension shaft 300 mm and front-operated rotary operating mechanism for the respective molded case circuit breaker EMERGENCY-STOP version Red knob, yellow indicator plate, without leading auxiliary switch For safety locks for installation by the customer, see pages 2/283 to 2/287.		3VL9300-3HF06	1	1 unit 1CC
			3VL9300-3HG06	1	1 unit 1CC
		Interlocking module UL 508A²⁾ For use with 3VL1, 3VL2, 3VL3, 3VL4, 3VL4X and 3RV19.6-2	8UC9400	1	1 unit 1CL
 NSE0_00712 3VL9.00-3A.11	Leading auxiliary switches for installation in a front-operated rotary operating mechanism or door-coupling rotary operating mechanism (UL file: E69455) Standard or EMERGENCY-STOP version "OFF after ON" Leading auxiliary switches when switching on 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables "ON after OFF" Leading auxiliary switches when switching off 1 changeover contact with 1.5 m long cables 2 changeover contacts with 1.5 m long cables		3VL9300-3AS11	1	1 unit 1CC
			3VL9300-3AT11	1	1 unit 1CC
			3VL9300-3AU11	1	1 unit 1CC
			3VL9300-3AW11	1	1 unit 1CC
		Rotary operating mechanisms with shaft stub, without knob Without leading auxiliary switch, for auxiliary switches, see above.	3VL9300-3HE01	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 - For 6 mm shaft	3VL9300-3HP02	1	1 unit 1CC
			3VL9300-3HP00	1	1 unit 1CC

¹⁾ IP40 with additional masking frame mounted on the door cut-out.

²⁾ In combination with 3VL1 to VL5, the interlocking module can be used with the complete door-coupling rotary operating mechanisms as follows:

	3VL1/3VL2/3VL3	3VL4/3VL4X
Door-coupling rotary operating mechanisms, complete		
• Black knob, light-gray indicator plate	3VL9300-3HF06	3VL9400-3HF06
• Red knob, yellow indicator plate	3VL9300-3HG06	3VL9400-3HG06

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

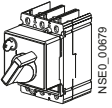
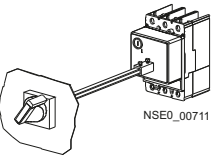
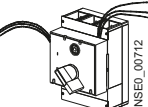
SD	For VL400 UL (JG frame) to VL400X UL (LG frame)	PU (UNIT, SET, M)	PS	PG	SD	For VL800 UL (MG frame)	PU (UNIT, SET, M)	PS	PG	
d	Article No. www.siemens.com/ product?Article No.	Price per PU			d	Article No. www.siemens.com/ product?Article No.	Price per PU			
	3VL9400-3HA01		1	1 unit	1CC	3VL9600-3HA01		1	1 unit	1CC
	3VL9400-3HC01		1	1 unit	1CC	3VL9600-3HC01		1	1 unit	1CC
	3VL9400-3HF06		1	1 unit	1CC	3VL9600-3HF06		1	1 unit	1CC
	3VL9400-3HG06		1	1 unit	1CC	3VL9600-3HG06		1	1 unit	1CC
	8UC9400		1	1 unit	1CL	--				
	3VL9400-3AS11		1	1 unit	1CC	3VL9600-3AS11		1	1 unit	1CC
	3VL9400-3AT11		1	1 unit	1CC	3VL9600-3AT11		1	1 unit	1CC
	3VL9400-3AU11		1	1 unit	1CC	3VL9600-3AU11		1	1 unit	1CC
	3VL9400-3AW11		1	1 unit	1CC	3VL9600-3AW11		1	1 unit	1CC
	3VL9400-3HE01		1	1 unit	1CC	3VL9600-3HE01		1	1 unit	1CC
	3VL9400-3HP00		1	1 unit	1CC	3VL9600-3HP00		1	1 unit	1CC
	--					--				

Molded Case Circuit Breakers

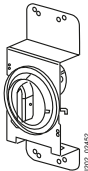
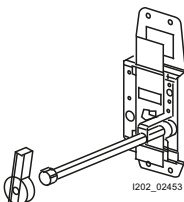
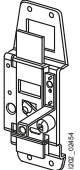

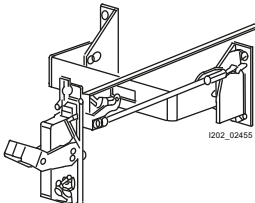
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL1200 UL (NG frame) to VL1600 UL (PG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?Article No.	Price per PU		
Operating mechanisms					
3-pole					
Front-operated rotary operating mechanisms (UL file: E69455)					
For direct mounting on the molded case circuit breaker, without leading auxiliary switch, degree of protection IP30 ¹⁾ , <u>black</u>					
					
3VL9.00-3H.01		3VL9800-3HA01		1	1 unit 1CC
<u>EMERGENCY-STOP version</u>					
Red knob, yellow indicator plate					
For safety locks for installation by the customer, see pages 2/283 to 2/287.					
Door-coupling rotary operating mechanisms, complete Installation in doors and covers (UL file: E69455)					
Degree of protection IP65, including black knob with masking plate, indicator plate, removable door coupling, extension shaft 300 mm and front-operated rotary operating mechanism for the respective molded case circuit breaker					
					
3VL9.00-3H.06		3VL9800-3HF06		1	1 unit 1CC
<u>EMERGENCY-STOP version</u>					
Red knob, yellow indicator plate, without leading auxiliary switch					
For safety locks for installation by the customer, see pages 2/283 to 2/287.					
Leading auxiliary switches for installation in a front-operated rotary operating mechanism or door-coupling rotary operating mechanism (UL file: E69455)					
Standard or EMERGENCY-STOP version					
"OFF after ON"					
Leading auxiliary switches when switching on					
1 changeover contact with 1.5 m long cables					
2 changeover contacts with 1.5 m long cables					
"ON after OFF"					
Leading auxiliary switches when switching off					
1 changeover contact with 1.5 m long cables					
2 changeover contacts with 1.5 m long cables					
					
3VL9.00-3A.11		3VL9800-3AS21		1	1 unit 1CC
3VL9800-3AT21					
3VL9800-3AU11					
3VL9800-3AW11					
Rotary operating mechanisms with shaft stub, without knob					
Without leading auxiliary switch, for auxiliary switches, see above.					
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					
3VL9800-3HP00					

¹⁾ IP40 with additional masking frame mounted on the door cut-out.

Version	SD	For VL150 UL (DG frame) to VL250 UL (FG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?Article No.	Price per PU		
Operating mechanisms					
3-pole					
Front-operated rotary operating mechanisms					
		Fixed depth; knob is fastened directly on molded case circuit breaker, silver knob, black lettering Lockable with up to 3 padlocks	3VL9300-3JA01	1	1 unit 1CC
3VL9.00-3JA01					
Door-coupling rotary operating mechanisms, complete					
		Variable installation depth, knob for door fitting, including knob with masking plate Black knob Indicator plate, removable door coupling 12-inch extension shaft and front-operated rotary operating mechanism for the respective molded case circuit breaker Lockable knob (up to 3 padlocks), NEMA 1, 12	3VL9300-3JD01	1	1 unit 1CC
3VL9.00-3JD01					
Switching mechanism for door-coupling rotary operating mechanisms					
		Switching mechanism	3VL9300-3JE01	1	1 unit 1CC
3VL9.00-3JE01					
Handle for door-coupling rotary operating mechanisms					
		Standard version			
		NEMA 1, 12	3VL9600-3JF11	1	1 unit 1CC
		NEMA 3R	3VL9600-3JF01	1	1 unit 1CC
		NEMA 4X	3VL9600-3JF41	1	1 unit 1CC
		EMERGENCY-STOP version	3VL9600-3JG01	1	1 unit 1CC
		• Red knob • Yellow indicator plate			
Extension shaft for door-coupling rotary operating mechanisms					
		2 inch (50 mm)	3VL9600-3JJ01	1	1 unit 1CC
		3 inch (76 mm)	—		
		12 inch (0.3 m)	3VL9600-3JJ11	1	1 unit 1CC
		16 inch (0.4 m)	3VL9600-3JJ21	1	1 unit 1CC
		24 inch (0.6 m) with support bracket	3VL9600-3JJ41	1	1 unit 1CC
NFPA-79 intermediate operating mechanism					
		For door-coupling rotary operating mechanisms	3VL9300-3JF81	1	1 unit 1CC
3VL9.00-3JF81					
Operating mechanism with flange connection for variable installation depth					
		Adjustable from 8 to 16 inch (approx. 200 to 400 mm) Complete kit, including knob Red/black knob ¹⁾ NEMA 1, 3R, 12 plastic NEMA 4, 4X chrome-plated steel Black knob ¹⁾ NEMA 1, 3R, 12 plastic NEMA 4, 4X chrome-plated steel	3VL9300-3JS01 3VL9300-3JS61 3VL9300-3JS11 3VL9300-3JS71	1 1 1 1	1 unit 1CC 1 unit 1CC 1 unit 1CC 1 unit 1CC
3VL9300-3JS01					

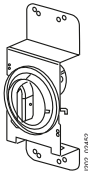
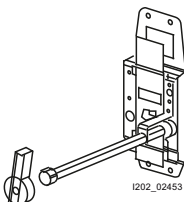
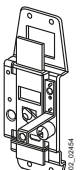
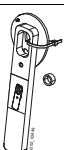
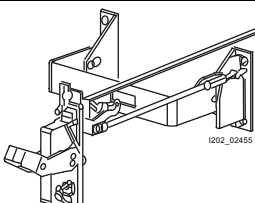
¹⁾ The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL400 UL (JG frame) to VL400X UL (LG frame)	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.	Price per PU		
Operating mechanisms					
 <p>3VL9.00-3JA01</p>	<p>3-pole Front-operated rotary operating mechanisms</p> <p>Fixed depth; knob is fastened directly on molded case circuit breaker, silver knob, black lettering Lockable with up to 3 padlocks</p>	3VL9400-3JA01		1	1 unit 1CC
 <p>3VL9.00-3JD01</p>	<p>Door-coupling rotary operating mechanisms, complete</p> <p>Variable installation depth, knob for door fitting, including knob with masking plate Black knob Indicator plate, removable door coupling 12-inch extension shaft and front-operated rotary operating mechanism for the respective molded case circuit breaker Lockable knob (up to 3 padlocks) NEMA 1, 12</p>	3VL9400-3JD01		1	1 unit 1CC
 <p>3VL9.00-3JE01</p>	<p>Switching mechanism for door-coupling rotary operating mechanisms</p> <p>Switching mechanism</p>	3VL9400-3JE01		1	1 unit 1CC
	<p>Handle for door-coupling rotary operating mechanisms</p> <p>Standard version</p> <p>NEMA 1, 12 NEMA 3R NEMA 4X</p> <p>EMERGENCY-STOP version</p> <ul style="list-style-type: none"> Red knob Yellow indicator plate 	<p>3VL9600-3JF11</p> <p>3VL9600-3JF01</p> <p>3VL9600-3JF41</p> <p>3VL9600-3JG01</p>		1	1 unit 1CC
	<p>Extension shaft for door-coupling rotary operating mechanisms</p> <p>2 inch (50 mm) 3 inch (76 mm) 12 inch (0.3 m) 16 inch (0.4 m) 24 inch (0.6 m) with support bracket</p>	<p>3VL9600-3JJ01</p> <p>--</p> <p>3VL9600-3JJ11</p> <p>3VL9600-3JJ21</p> <p>3VL9600-3JJ41</p>		1	1 unit 1CC
 <p>3VL9800-3JF81</p>	<p>NFPA-79 intermediate operating mechanism</p> <p>For door-coupling rotary operating mechanisms</p>	3VL9600-3JF81		1	1 unit 1CC
 <p>3VL9400-3JS01</p>	<p>Operating mechanism with flange connection for variable installation depth</p> <p>Adjustable from 8 to 16 inch (approx. 200 to 400 mm) Complete kit, including knob Red/black knob¹⁾ NEMA 1, 3R, 12 plastic NEMA 4, 4X chrome-plated steel Black knob¹⁾ NEMA 1, 3R, 12 plastic NEMA 4, 4X chrome-plated steel</p>	<p>3VL9400-3JS01</p> <p>3VL9400-3JS41</p> <p>3VL9400-3JS11</p> <p>3VL9400-3JS51</p>		1	1 unit 1CC

¹⁾ The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

SD	For VL800 UL (MG frame)	PU (UNIT, SET, M)	PS	PG	SD	For VL1200 UL (NG frame) to VL1600 UL (PG frame)	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.	Price per PU			d	Article No. www.siemens.com/ product?Article No.	Price per PU		
	--					--			
	3VL9600-3JD01		1	1 unit	1CC	--			
	3VL9600-3JE01		1	1 unit	1CC	3VL9800-3JE01		1	1 unit 1CC
	3VL9600-3JF11		1	1 unit	1CC	3VL9800-3JF01		1	1 unit 1CC
	3VL9600-3JF01		1	1 unit	1CC	3VL9800-3JF01		1	1 unit 1CC
	3VL9600-3JF41		1	1 unit	1CC	3VL9800-3JF41		1	1 unit 1CC
	3VL9600-3JG01		1	1 unit	1CC	--			
	3VL9600-3JJ01		1	1 unit	1CC	--			
	--					3VL9800-3JJ01		1	1 unit 1CC
	3VL9600-3JJ11		1	1 unit	1CC	3VL9800-3JJ11		1	1 unit 1CC
	3VL9600-3JJ21		1	1 unit	1CC	--			
	3VL9600-3JJ41		1	1 unit	1CC	3VL9800-3JJ21		1	1 unit 1CC
	3VL9600-3JF81		1	1 unit	1CC	3VL9800-3JF81		1	1 unit 1CC
	--					--			
	--					--			
	--					--			
	--					--			

Molded Case Circuit Breakers

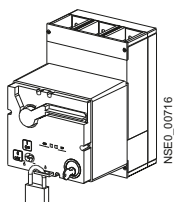
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL150X UL (CG frame) to VL250 UL (FG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?Article No.	Price per PU		

Operating mechanisms



3VL9.00-3M.01

3-pole

Motorized operating mechanism with spring energy mechanism¹⁾ (UL file: E69455)

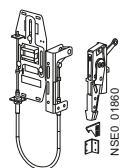
Degree of protection IP30, with locking device for 3 padlocks, synchronizable

50/60 Hz V AC	V DC
--	24
42 ... 48	42 ... 48
60	60
110 ... 127	110 ... 127
220 ... 250	220 ... 250

3VL9300-3MJ01	1	1 unit	1CC
3VL9300-3ML01	1	1 unit	1CC
3VL9300-3MS01	1	1 unit	1CC
3VL9300-3MN01	1	1 unit	1CC
3VL9300-3MQ01	1	1 unit	1CC

Toggle lever extension

--



3VL9.00-3JM01

Max-Flex operating mechanism, complete including switching mechanism, Bowden cable, red/black knob, NEMA 1, 3R, 12 plastic

Bowden cable, 36 inch (0.9 m)

Bowden cable, 48 inch (1.2 m)

3VL9300-3JM01	1	1 unit	1CC
--			

Knob for Max-Flex operating mechanism

Red/black knob²⁾

NEMA 1, 3R, 12 plastic

NEMA 1, 3R, 12 steel – epoxy sheathed

NEMA 4, 4X chrome-plated steel

Gray knob²⁾

NEMA 1, 3R, 12 plastic

Black knob²⁾

NEMA 1, 3R, 12 steel – epoxy sheathed

3VL9600-3JP01	1	1 unit	1CC
3VL9600-3JP21	1	1 unit	1CC
3VL9600-3JP41	1	1 unit	1CC
3VL9600-3JP11	1	1 unit	1CC
3VL9600-3JP61	1	1 unit	1CC

Switching mechanism for Max-Flex operating mechanism

3VL9300-3JN01	1	1 unit	1CC
---------------	---	--------	-----

Bowden cable for Max-Flex operating mechanism

36 inch (0.9 m)

48 inch (1.2 m)

60 inch (1.5 m)

72 inch (1.8 m)

84 inch (2.1 m)

96 inch (2.4 m)

120 inch (3.0 m)

144 inch (3.6 m)

3VL9300-3JQ31	1	1 unit	1CC
3VL9300-3JQ41	1	1 unit	1CC
3VL9300-3JQ61	1	1 unit	1CC
3VL9300-3JQ71	1	1 unit	1CC
3VL9300-3JQ81	1	1 unit	1CC
3VL9300-3JQ21	1	1 unit	1CC
3VL9300-3JQ01	1	1 unit	1CC
3VL9300-3JQ11	1	1 unit	1CC

Screw set

For attaching the Max-Flex operating mechanism incl. circuit breaker to an 8US busbar adapter (60 mm busbar system).

• 1 set = 3 screws size M4 x 100 mm³⁾⁴⁾

• 1 set = 2 screws size M6 x 100 mm and 2 special screws with threaded head⁵⁾

3VL9300-8SE20	1	1 unit	1CC
--			

Leading auxiliary switches for Max-Flex operating mechanism

• 1 changeover contact with 1.5 m long cables

• 2 changeover contacts with 1.5 m long cables

3VL9300-2AP11	1	1 unit	1CC
3VL9300-2AP21	1	1 unit	1CC

¹⁾ For safety lock as an assembly kit for retrofitting, see pages 2/283 to 2/287.

²⁾ The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.

³⁾ The combination of molded case circuit breaker VL150X (CG) incl. Max-Flex operating mechanism on 8US busbar adapter is not possible.

⁴⁾ For 3VL25/DG and 3VL35/FG, please use the busbar adapter 8US1213-4AQ03.

⁵⁾ For 3VL41/JG and 3VL48/LG, please use the busbar adapter 8US1213-4AH00.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

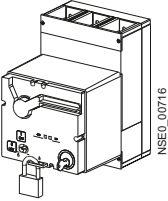
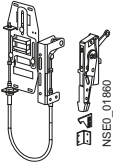
SD	For VL400 UL (JG frame) to VL400X UL (LG frame)	PU (UNIT, SET, M)	PS	PG	SD	For VL800 UL (MG frame)	PU (UNIT, SET, M)	PS	PG	
d	Article No. www.siemens.com/ product?Article No.	Price per PU			d	Article No. www.siemens.com/ product?Article No.	Price per PU			
	3VL9400-3MJ01		1	1 unit	1CC	3VL9600-3MJ01		1	1 unit	1CC
	3VL9400-3ML01		1	1 unit	1CC	3VL9600-3ML01		1	1 unit	1CC
	3VL9400-3MS01		1	1 unit	1CC	3VL9600-3MS01		1	1 unit	1CC
	3VL9400-3MN01		1	1 unit	1CC	3VL9600-3MN01		1	1 unit	1CC
	3VL9400-3MQ01		1	1 unit	1CC	3VL9600-3MQ01		1	1 unit	1CC
	3VL9400-3HN01		1	1 unit	1CC	3VL9600-3HN01		1	1 unit	1CC
	--					--				
	3VL9400-3JM01		1	1 unit	1CC	3VL9600-3JM01		1	1 unit	1CC
	3VL9600-3JP01		1	1 unit	1CC	3VL9600-3JP01		1	1 unit	1CC
	3VL9600-3JP21		1	1 unit	1CC	3VL9600-3JP21		1	1 unit	1CC
	3VL9600-3JP41		1	1 unit	1CC	3VL9600-3JP41		1	1 unit	1CC
	3VL9600-3JP11		1	1 unit	1CC	3VL9600-3JP11		1	1 unit	1CC
	3VL9600-3JP61		1	1 unit	1CC	3VL9600-3JP61		1	1 unit	1CC
	3VL9400-3JN01		1	1 unit	1CC	3VL9600-3JN01		1	1 unit	1CC
	3VL9600-3JQ31		1	1 unit	1CC	3VL9600-3JQ31		1	1 unit	1CC
	3VL9600-3JQ41		1	1 unit	1CC	3VL9600-3JQ41		1	1 unit	1CC
	3VL9600-3JQ61		1	1 unit	1CC	3VL9600-3JQ61		1	1 unit	1CC
	3VL9600-3JQ71		1	1 unit	1CC	3VL9600-3JQ71		1	1 unit	1CC
	3VL9600-3JQ81		1	1 unit	1CC	3VL9600-3JQ81		1	1 unit	1CC
	3VL9600-3JQ21		1	1 unit	1CC	3VL9600-3JQ21		1	1 unit	1CC
	3VL9600-3JQ01		1	1 unit	1CC	3VL9600-3JQ01		1	1 unit	1CC
	3VL9600-3JQ11		1	1 unit	1CC	3VL9600-3JQ11		1	1 unit	1CC
	--					--				
	3VL9460-8SE20		1	1 unit	1CC	--				
	3VL9400-2AP11		1	1 unit	1CC	3VL9800-2AP11		1	1 unit	1CC
	3VL9400-2AP21		1	1 unit	1CC	3VL9800-2AP21		1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL1200 UL (NG frame) to VL1600 UL (PG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?Article No.	Price per PU		
Operating mechanisms					
3-pole					
Motorized operating mechanism¹⁾ (UL file: E69455) Degree of protection IP30, with locking device for 3 padlocks, not synchronizable					
50/60 Hz V AC		V DC			
--		24	3VL9800-3MJ01	1	1 unit 1CC
42 ... 48		42 ... 48	3VL9800-3ML01	1	1 unit 1CC
60		60	3VL9800-3MS01	1	1 unit 1CC
110 ... 127		110 ... 127	3VL9800-3MN01	1	1 unit 1CC
220 ... 250		220 ... 250	3VL9800-3MQ01	1	1 unit 1CC
 NSE0_00716 3VL9.00-3M.01					
Toggle lever extension					
Max-Flex operating mechanism, complete including switching mechanism, Bowden cable, red/black knob, NEMA 1, 3R, 12 steel – epoxy sheathed			3VL9800-3HN01	1	1 unit 1CC
Bowden cable, 36 inch (0.9 m)			--		
Bowden cable, 48 inch (1.2 m)			3VL9800-3JM01	1	1 unit 1CC
 NSE0_01860 3VL9.00-3JM01					
Knob for Max-Flex operating mechanism					
Red/black knob ²⁾			--		
NEMA 1, 3R, 12 plastic			--		
NEMA 1, 3R, 12 steel – epoxy sheathed			3VL9800-3JP01	1	1 unit 1CC
NEMA 4, 4X chrome-plated steel			3VL9800-3JP41	1	1 unit 1CC
Gray knob ²⁾			--		
NEMA 1, 3R, 12 plastic			--		
Black knob ²⁾			--		
NEMA 1, 3R, 12 steel – epoxy sheathed			3VL9800-3JP11	1	1 unit 1CC
Switching mechanism for Max-Flex operating mechanism			3VL9800-3JN01	1	1 unit 1CC
Bowden cable for Max-Flex operating mechanism					
36 inch (0.9 m)			--		
48 inch (1.2 m)			3VL9800-3JQ41	1	1 unit 1CC
60 inch (1.5 m)			3VL9800-3JQ61	1	1 unit 1CC
72 inch (1.8 m)			3VL9800-3JQ71	1	1 unit 1CC
84 inch (2.1 m)			3VL9800-3JQ81	1	1 unit 1CC
96 inch (2.4 m)			3VL9800-3JQ21	1	1 unit 1CC
120 inch (3.0 m)			3VL9800-3JQ01	1	1 unit 1CC
144 inch (3.6 m)			3VL9800-3JQ11	1	1 unit 1CC
Leading auxiliary switches for Max-Flex operating mechanism					
• 1 changeover contact with 1.5 m long cables			3VL9800-2AP11	1	1 unit 1CC
• 2 changeover contacts with 1.5 m long cables			3VL9800-2AP21	1	1 unit 1CC

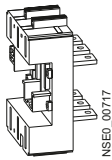
¹⁾ For safety lock as an assembly kit for retrofitting, see pages 2/283 to 2/287.

²⁾ The knobs in monochrome gray or black are preferably used in IEC markets. Red/black knobs (red for ON) are standard in UL markets.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

Version	SD	For VL150X UL (CG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?Article No.	Price per PU		
d					
Plug-in versions/withdrawable versions (UL file: E69455)					
 <p>3VL9.00-4PA31</p>	3-pole				
	Plug-in base assembly kits				
	Complete with base plate, base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin				
	Rear connections				
	3-pole				
	Front connections				
3-pole					
		3VL9100-4PA31		1	1 unit 1CC
		3VL9100-4PC31		1	1 unit 1CC
		Blade contacts			
		As replacement for converting fixed-mounted into plug-in/withdrawable molded case circuit breakers, including trip pin			
		1 set = 6 units	3-pole	3VL9100-4PS31	1 1 unit 1CC
		Trip pins and springs			
		As replacement for plug-in molded case circuit breaker			
		3VL9100-4PF01		1	1 unit 1CC
		Auxiliary circuit plug connections for plug-in bases¹⁾			
		Accessory connections for plug-in molded case circuit breakers (factory-wired connectors) and for plug-in bases (coupling with screw terminal)			
		8 terminals ¹⁾	3VL9300-4PJ01	1	1 unit 1CC
		Position signaling switches			
		(connected/disconnected position)			
		For plug-in base, 1 changeover contact, max. 2 signaling switches possible			
		3VL9000-4WL01		1	1 unit 1CC

¹⁾ It is recommended to use a maximum of 2 auxiliary circuit plug-in systems per molded case circuit breaker (16 terminals).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

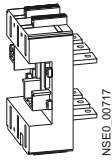
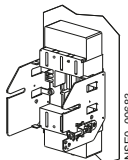
SD	For VL250 UL (FG frame)	PU (UNIT, SET, M)	PS	PG	SD	For VL400 UL (JG frame)	PU (UNIT, SET, M)	PS	PG	
d	Article No. www.siemens.com/ product?Article No.	Price per PU			d	Article No. www.siemens.com/ product?Article No.	Price per PU			
	3VL9300-4PA31		1	1 unit	1CC	3VL9400-4PA31		1	1 unit	1CC
	3VL9300-4PC31		1	1 unit	1CC	3VL9400-4PC31		1	1 unit	1CC
	3VL9300-4WA31		1	1 unit	1CC	3VL9400-4WA31		1	1 unit	1CC
	3VL9300-4WC31		1	1 unit	1CC	3VL9400-4WC31		1	1 unit	1CC
	3VL9300-4PS31		1	1 unit	1CC	3VL9400-4PS31		1	1 unit	1CC
	3VL9300-4PF01		1	1 unit	1CC	3VL9400-4PF01		1	1 unit	1CC
	1) 3VL9300-4PJ01		1	1 unit	1CC	2) 3VL9400-4PJ01		1	1 unit	1CC
	3VL9000-4WL01		1	1 unit	1CC	3VL9000-4WL01		1	1 unit	1CC

2

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

Version	SD	For VL400X (LG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?Article No.	Price per PU		
d					
Plug-in versions/withdrawable versions (UL file: E69455)					
3-pole					
Plug-in base assembly kits					
Complete with base plate, base, blade contacts for circuit breakers, terminal covers for degree of protection IP20, fixing screws, trip pin					
 3VL9.00-4PA31	Rear connections 3-pole		3VL9460-4PA31	1	1 unit 1CC
	Front connections 3-pole		3VL9460-4PC31	1	1 unit 1CC
	Withdrawable versions Same as plug-in base assembly kit, with additional side panels and racking mechanism				
 3VL9.00-4WA31	Rear connections¹⁾ 3-pole		3VL9460-4WA31	1	1 unit 1CC
	Front connections 3-pole		3VL9460-4WC31	1	1 unit 1CC
	Blade contacts As replacement for converting fixed-mounted into plug-in/withdrawable molded case circuit breakers, including trip pin 1 set = 6 units 3-pole				
		3VL9460-4PS31	1	1 unit 1CC	
Trip pins and springs As replacement for plug-in/withdrawable molded case circuit breaker					
		3VL9460-4PF01	1	1 unit 1CC	
Auxiliary circuit plug connections for plug-in bases²⁾ Accessory connections for plug-in molded case circuit breakers (factory-wired connectors) and for plug-in bases or withdrawable version (coupling with screw terminal) 8 terminals ²⁾					
		3VL9460-4PJ01	1	1 unit 1CC	
Position signaling switches (connected/disconnected position) For plug-in base, 1 changeover contact, max. 2 signaling switches possible					
		3VL9000-4WL01	1	1 unit 1CC	

¹⁾ With VL800 UL (MG frame) to VL1200 UL (NG frame) as vertical connection.

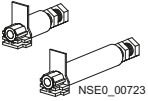
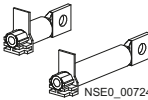
²⁾ It is recommended to use a maximum of 3 auxiliary circuit plug-in systems per molded case circuit breaker (24 terminals).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL150X UL (CG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?ArticleNo.				
Connection parts for fixed-mounted molded case circuit breakers						
3-pole						
Rear connections						
 NSE0_00723 3VL9.00-4RA01, 3VL9.00-4RB01	Short connection (1 unit)				1	1 unit 1CC
	Long connection (1 unit)				1	1 unit 1CC
	Terminal kit (2 short + 1 long) 3-pole				1	1 unit 1CC
 NSE0_00724 3VL9.00-4RK01, 3VL9.00-4RL01	Short flat connection (1 unit)				1	1 unit 1CC
	Long flat connection (1 unit)				1	1 unit 1CC
	Flat connector kit (2 short + 1 long) 3-pole				1	1 unit 1CC
Steel box terminal with auxiliary conductor connection						
Terminal with auxiliary conductor connection up to 0.5 A					1	1 unit 1CC
Box terminals						
Connection for flexible flat copper busbar or cable					1	1 unit 1CC
1 set = 3 units					1	1 unit 1CC
Circular conductor terminals¹⁾						
Only for cables (Al or Cu) Aluminum terminal (tinned)					1	1 unit 1CC
1 set = 3 units					1	1 unit 1CC
Terminals with screw connection						
With insulator (for rear) for use with busbars and cable lugs					1	1 unit 1CC
1 set = 3 units		Metric thread			1	1 unit 1CC
Connection covers (terminal covers) for circuit breakers²⁾						
Degree of protection IP30 for main connections					1	1 unit 1CC
1 set = 2 units					1	1 unit 1CC
Extended		3-pole			1	1 unit 1CC
Standard		3-pole			1	1 unit 1CC
Connection covers (terminal covers) for circuit breakers						
Degree of protection IP2X for main connections					1	1 unit 1CC
1 set = 1 unit (consisting of top part and bottom part)					1	1 unit 1CC
3-pole					1	1 unit 1CC
Phase barriers for molded case circuit breakers, fixed-mounted, plug-in or withdrawable versions						
1 set = 2 units					1	1 unit 1CC

Note:

Only rear terminals with different lengths may be fitted next to one another (e.g. short-long-short or long-short-long).

¹⁾ Circular conductor terminals for VL150X UL (CG frame) suitable for 60 A to 150 A.

²⁾ UL-listed for use with plug-in and withdrawable versions. A system-specific additional test is required for use with circuit breakers.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	for VL150 UL (DG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?Article No.				
Connection parts for fixed-mounted molded case circuit breakers						
3-pole						
Front connecting bars						
		Terminal set with cover for mounting the circuit breaker on busbars 1 set = 3 units		3VL9200-4EC31	1	1 unit 1CC
Rear connections						
		Short connection (1 unit)		3VL9200-4RA01	1	1 unit 1CC
		Long connection (1 unit)		3VL9200-4RB01	1	1 unit 1CC
		Terminal kit (2 short + 1 long) 3-pole		3VL9200-4RC31	1	1 unit 1CC
		Short flat connection (1 unit)		3VL9200-4RK01	1	1 unit 1CC
		Long flat connection (1 unit)		3VL9200-4RL01	1	1 unit 1CC
		Flat connector kit (2 short + 1 long) 3-pole		3VL9200-4RM31	1	1 unit 1CC
		Flat connecting bar (1 unit)		--		
		Flat connecting bars 1 set = 3 units, 3-pole		--		
Box terminal						
<u>Connection for flexible flat copper busbar or cable</u>						
		1 set = 3 units		3VL9220-4TC31	1	1 unit 1CC
Circular conductor terminal with terminal covers for cable (only for Al or Cu cables)						
		Terminal with auxiliary conductor connection up to 0.5 A 1 set = 3 units		3VL9215-4TD31	1	1 unit 1CC
Steel box terminal with auxiliary conductor connection						
		Terminal with auxiliary conductor connection up to 0.5 A		3VL9220-4TN31	1	1 unit 1CC
Circular conductor terminals¹⁾						
<u>Only for cables (Al or Cu)</u> <u>Aluminum terminal (tinned)</u>						
		1 set = 3 units		3VL9230-4TD31	1	1 unit 1CC
Multiple feed-in terminals						
<u>Only for cables (Al or Cu)</u> <u>Aluminum terminal (tinned)</u>						
		1 set = 3 units	Double	--		
Multiple feed-in terminal with terminal cover						
		Terminal with auxiliary conductor connection up to 0.5 A 1 set = 3 units	Double	--		

Note:

Only rear terminals with different lengths may be fitted next to one another (e.g. short-long-short or long-short-long).

¹⁾ Circular conductor terminals for VL150 UL suitable for 60 to 150 A.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

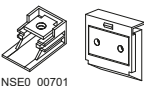
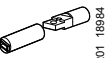
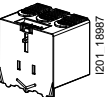



SD	For VL250 UL (FG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL400 UL (JG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article.No.					d	Article No. www.siemens.com/product?Article.No.				
	3VL9300-4EC31		1	1 unit	1CC		3VL9400-4EC31		1	1 unit	1CC
	3VL9300-4RA01		1	1 unit	1CC		3VL9400-4RA01		1	1 unit	1CC
	3VL9300-4RB01		1	1 unit	1CC		3VL9400-4RB01		1	1 unit	1CC
	3VL9300-4RC31		1	1 unit	1CC		3VL9400-4RC31		1	1 unit	1CC
	3VL9300-4RK01		1	1 unit	1CC		3VL9400-4RK01		1	1 unit	1CC
	3VL9300-4RL01		1	1 unit	1CC		3VL9400-4RL01		1	1 unit	1CC
	3VL9300-4RM31		1	1 unit	1CC		3VL9400-4RM31		1	1 unit	1CC
	--						--				
	--						--				
	3VL9335-4TC31		1	1 unit	1CC		3VL9460-4TC31		1	1 unit	1CC
	--						--				
	3VL9335-4TN31		1	1 unit	1CC		3VL9460-4TN31		1	1 unit	1CC
	3VL9335-4TD31		1	1 unit	1CC		3VL9475-4TD31		1	1 unit	1CC
	--						3VL9425-4TF31		1	1 unit	1CC
	--						3VL9460-4TF31		1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	for VL150 UL (DG frame)	PU (UNIT, SET, M)	PS	PG
		Article No.	Price per PU		
	d				
Connection parts for fixed-mounted molded case circuit breakers					
3-pole					
Connection with screw-type terminals					
With insulator (for rear) for use with busbars and cable lugs					
 NSE0_00701					
3VL9.00-4TA.1	1 set = 3 units	Metric thread	3VL9200-4TA31	1	1 unit 1CC
	1 set = 3 units	Inch thread	3VL9200-4TB31	1	1 unit 1CC
Cable lug connection					
 1201_18894	1 set = 3 units		3VL9220-4TM31	1	1 unit 1CC
Connection covers (terminal covers) for circuit breakers ¹⁾					
Degree of protection IP30 for main connections					
1 set = 2 units					
 1201_18897	Extended	3-pole	3VL9300-8CA31	1	1 unit 1CC
 NSE0_00730	Standard	3-pole	3VL9300-8CB31	1	1 unit 1CC
Connection covers (terminal covers) for circuit breakers					
Degree of protection IP2X for main connections					
1 set = 1 unit (consisting of top part and bottom part)					
 1201_18883	3-pole		3VL9300-8CD31	1	1 unit 1CC
Phase barriers for molded case circuit breakers, fixed-mounted, plug-in or withdrawable versions					
 NSE0_00731	1 set = 2 units		3VL9300-8CE01	1	1 unit 1CC

¹⁾ UL-listed for use with plug-in and withdrawable versions. A system-specific additional test is required for use with circuit breakers.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

SD	For VL250 UL (FG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL400 UL (JG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/product?Article No.					d	Article No. www.siemens.com/product?Article No.				
	3VL9300-4TA31		1	1 unit	1CC		3VL9400-4TA31		1	1 unit	1CC
	3VL9300-4TB31		1	1 unit	1CC		--				
	3VL9335-4TM31		1	1 unit	1CC		3VL9460-4TM31		1	1 unit	1CC
	3VL9300-8CA31		1	1 unit	1CC		3VL9400-8CA31		1	1 unit	1CC
	3VL9300-8CB31		1	1 unit	1CC		3VL9400-8CB31		1	1 unit	1CC
	3VL9300-8CD31		1	1 unit	1CC		3VL9400-8CD31		1	1 unit	1CC
	3VL9300-8CE01		1	1 unit	1CC		3VL9600-8CE01		1	1 unit	1CC

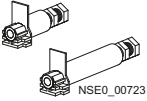
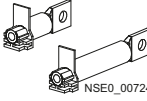

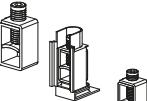


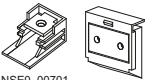



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Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL400X UL (LG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/product?Article.No.				
Connection parts for fixed-mounted molded case circuit breakers						
3-pole						
Front connecting bars						
		Terminal set with cover for mounting the circuit breaker on busbars 1 set = 3 units		3VL9460-4EC31	1	1 unit 1CC
Rear connections						
		Short connection (1 unit) Long connection (1 unit) Terminal kit (2 short + 1 long) 3-pole		--		
3VL9.00-4RA01, 3VL9.00-4RB01						
		Short flat connection (1 unit) Long flat connection (1 unit) Flat connector kit (2 short + 1 long) 3-pole		3VL9460-4RP01	1	1 unit 1CC
3VL9.00-4RK01, 3VL9.00-4RL01						
		Flat connecting bar (1 unit) Flat connecting bars 1 set = 3 units, 3-pole		3VL9460-4RG01 3VL9460-4RH31	1 1	1 unit 1CC 1 unit 1CC
3VL9.00-4R..1						
Box terminal						
		Connection for flexible flat copper busbar or cable 1 set = 3 units		--		
NSE0_00700 3VL9.00-4TC.1						
Circular conductor terminals						
		Only for cables (Al or Cu) Aluminum terminal (tinned) 1 set = 3 units		3VL9475-4TD31	1	1 unit 1CC
3VL9475-4TD31						
Multiple feed-in terminals						
		Only for cables (Al or Cu) Aluminum terminal (tinned) 1 set = 3 units	Double • Terminal on feeder side ¹⁾ • Terminal on outgoing side ¹⁾ 3-fold 4-fold	-- 3VL9460-4TX31 3VL9460-4TY31 -- --	1 1	1 unit 1CC 1 unit 1CC
3VL9...-4TF.1						
Connection with screw-type terminals						
		With insulator (for rear) for use with busbars and cable lugs 1 set = 3 units	Metric thread	3VL9460-4TA31	1	1 unit 1CC
NSE0_00701 3VL9.00-4TA.1		1 set = 3 units	Inch thread	3VL9460-4TB31	1	1 unit 1CC
Connection covers (terminal covers) for circuit breakers²⁾						
		Degree of protection IP30 for main connections 1 set = 2 units	3-pole	3VL9400-8CA31	1	1 unit 1CC
3VL9400-8CA31		Extended	3-pole	3VL9400-8CB31	1	1 unit 1CC
		Standard	3-pole			
NSE0_00730 3VL9.00-3CB.1						
Phase barriers for molded case circuit breakers, fixed-mounted, plug-in or withdrawable versions³⁾						
		1 set = 2 units		3VL9600-8CE01	1	1 unit 1CC
NSE0_00731 3VL9.00-8CE01						

Note:

Only rear terminals with different lengths may be fitted next to one another (e.g. short-long-short or long-short-long).

¹⁾ Extended terminal cover included in scope of supply.

²⁾ UL-listed for use with plug-in and withdrawable versions. A system-specific additional test is required for use with circuit breakers.

³⁾ Plug-in versions: not for VL1200 UL (NG frame); withdrawable version: not for VL800 UL (MG frame) and VL1200 UL (NG frame).

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

SD	For VL800 UL (MG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL1200 UL (NG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article.No.					d	Article No. www.siemens.com/ product?Article.No.				
	3VL9600-4EC31		1	1 unit	1CC		3VL9800-4EF01		1	1 unit	1CC
	--						--				
	--						--				
	--						--				
	3VL9600-4RP01		1	1 unit	1CC		--				
	--						--				
	3VL9600-4RG01		1	1 unit	1CC		3VL9700-4RG01		1	1 unit	1CC
	3VL9600-4RH31		1	1 unit	1CC		3VL9700-4RH31		1	1 unit	1CC
	--						--				
	--						--				
	3VL9675-4TF31		1	1 unit	1CC		--				
	--						--				
	--						--				
	3VL9650-4TG31		1	1 unit	1CC		3VL9775-4TG31		1	1 unit	1CC
	--						3VL9750-4TH31		1	1 unit	1CC
	3VL9600-4TA31		1	1 unit	1CC		3VL9800-4TA31		1	1 unit	1CC
	3VL9600-4TB31		1	1 unit	1CC		3VL9800-4TB31		1	1 unit	1CC
	3VL9600-8CA31		1	1 unit	1CC		3VL9800-8CA31		1	1 unit	1CC
	3VL9600-8CB31		1	1 unit	1CC		3VL9800-8CB31		1	1 unit	1CC
	3VL9600-8CE01		1	1 unit	1CC		3VL9800-8CE01		1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

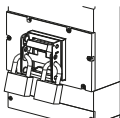
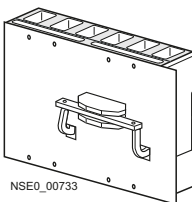
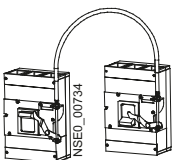
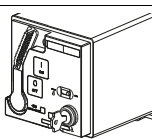

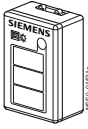
Version	SD	For VL1600 UL (PG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?Article No.	Price per PU		
Connection parts for fixed-mounted molded case circuit breakers					
3-pole					
Front connecting bars					
Terminal set with cover for mounting the circuit breaker on busbars		3VL9800-4EF01		1	1 unit 1CC
1 set = 3 units					
<ul style="list-style-type: none"> Incoming side, mounting from the top Incoming side, mounting from the bottom 					
Rear connections					
Short connection (1 unit)		--			
Long connection (1 unit)		--			
Terminal kit (2 short + 1 long) 3-pole		--			
Short flat connection (1 unit)		--			
Long flat connection (1 unit)		--			
Flat connector kit (2 short + 1 long) 3-pole		--			
Flat connecting bar (1 unit)		--			
Flat connecting bars 1 set = 3 units, 3-pole		--			
Box terminal					
Connection for flexible flat copper busbar or cable		--			
1 set = 3 units					
Circular conductor terminals					
Only for cables (Al or Cu)					
Aluminum terminal (tinned)					
1 set = 3 units		--			
Multiple feed-in terminals					
Only for cables (Al or Cu)					
Aluminum terminal (tinned)					
4-fold (for installation with mounting base)		3VL9875-4TH01		1	1 unit 1CC
1 unit					
Terminals with screw connection -					
With insulator (for rear) for use with busbars and cable lugs					
1 set = 3 units		Metric thread	3VL9800-4TA31	1	1 unit 1CC
1 set = 3 units		Inch thread	3VL9800-4TB31	1	1 unit 1CC
Connection covers (terminal covers) for circuit breakers¹⁾					
Degree of protection IP30 for main connections					
1 set = 2 units					
Extended		3-pole	3VL9800-8CA31	1	1 unit 1CC
Standard		3-pole	3VL9800-8CB31	1	1 unit 1CC
Phase barriers for molded case circuit breakers, fixed-mounted					
1 set = 2 units		3VL9800-8CE01		1	1 unit 1CC
Mounting base					
Operation of the molded case circuit breaker within the scope of application of UL 489/CSA is permitted only in conjunction with the mounting base					
Front connections		3VL9800-4TU31		1	1 unit 1CC
Rear connections		3VL9800-4TV31		1	1 unit 1CC

¹⁾ Not UL-listed.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

Version	SD	For VL250 UL (FG frame) Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Interlocks						
 <p>NSE0_00732 3VL9.00-3HL01</p>		<p>3-pole Locking devices for toggle levers For locking the molded case circuit breaker in the "OFF" position. Up to 3 padlocks with a diameter of 5–8 mm can be used. Removable (padlocks not included)</p>				
 <p>NSE0_00733 3VL9.00-8L.01</p>		<p>Rear interlocking modules For the mechanical interlocking of two adjacent molded case circuit breakers. The circuit breakers must be of the same installation type and frame size. (Mounting plate not included in scope of supply) Fixed-mounted molded case circuit breakers</p>				
 <p>NSE0_00734 3VL9.00-8LA01</p>		<p>Interlocking modules for Bowden cable interlocking¹⁾ For the mechanical interlocking of two molded case circuit breakers. Interlocking module for one molded case circuit breaker</p> <p>Note</p> <p>Combinations with next size up/down possible (see Article No.)</p>				
		<p>Bowden cables for Bowden cable interlocking¹⁾</p> <ul style="list-style-type: none"> • Cable length 0.5 m • Cable length 1.0 m • Cable length 1.5 m 				
 <p>NSE0_00680 3VL9...-8HA01</p>		<p>Safety lock assembly kits Key can be removed with the molded case circuit breaker in the "OFF" position <u>For motorized operating mechanism with stored energy mechanism</u> Lock types</p> <ul style="list-style-type: none"> • Ronis • Filli Giussani 				
		<p>Sets of fixing screws (metric thread) Including the screws, washers and nuts required to secure a molded case circuit breaker to a prepared surface Set with 4 screws</p>				
 <p>120_18885 3VL9...-8B.01</p>		<p>Transparent covers for releases, sealable To prevent access by unqualified personnel and unauthorized changes to settings (seal not included)</p> <ul style="list-style-type: none"> • For Electronic Trip Unit • For thermal-magnetic release 				
 <p>3VL9000-8AP01</p>		<p>Battery power supply for activating/parameterizing/tripping the electronic trip units (two 9 V blocks are required in addition)</p>				

¹⁾ Two interlocking modules and one Bowden cable are required. Cannot be used in conjunction with motorized operating mechanism!

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

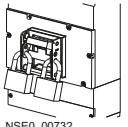
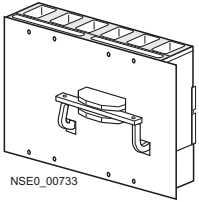
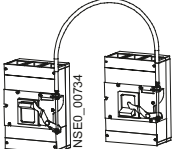
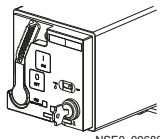


SD	For VL400 UL (JG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL400X UL (LG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.				
	3VL9400-3HL01		1	1 unit	1CC		3VL9400-3HL01		1	1 unit	1CC
	3VL9400-8LC01		1	1 unit	1CC		3VL9400-8LC01		1	1 unit	1CC
	3VL9400-8LA01		1	1 unit	1CC		3VL9400-8LA01		1	1 unit	1CC
	-- 3VL9000-8LH21 3VL9000-8LH31		1 1	1 unit 1 unit	1CC 1CC		-- 3VL9000-8LH21 3VL9000-8LH31		1 1	1 unit 1 unit	1CC 1CC
	3VL9715-8HA01 --		1	1 unit	1CC		3VL9715-8HA01 --		1	1 unit	1CC
	3VL9500-8SA40		1	1 unit	1CC		3VL9500-8SA40		1	1 unit	1CC
	3VL9700-8BL01 3VL9400-8BM01 3VL9000-8AP01		1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC		3VL9700-8BL01 3VL9400-8BM01 3VL9000-8AP01		1 1 1	1 unit 1 unit 1 unit	1CC 1CC 1CC

2

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

Version	SD	For VL800 UL (MG frame)	PU (UNIT, SET, M)	PS	PG
		Article No. www.siemens.com/ product?Article No.	Price per PU		
Interlocks					
 NSE0_00732 3VL9.00-3HL01		3-pole Locking devices for toggle levers For locking the molded case circuit breaker in the "OFF" position. Up to 3 padlocks with a diameter of 5–8 mm can be used. Removable (padlocks not included)		1	1 unit 1CC
 NSE0_00733 3VL9.00-8L.01		Rear interlocking modules For the mechanical interlocking of two adjacent molded case circuit breakers. The circuit breakers must be of the same installation type and frame size. (Mounting plate not included in scope of supply) Fixed-mounted molded case circuit breakers		1	1 unit 1CC
 NSE0_00734 3VL9.00-8LA01		Interlocking modules for Bowden cable interlocking¹⁾ For the mechanical interlocking of two molded case circuit breakers. Interlocking module for one molded case circuit breaker Note Combinations with next size up/down possible (see Article No.)		1	1 unit 1CC
		Bowden cables for Bowden cable interlocking ¹⁾ • Cable length 0.5 m • Cable length 1.0 m • Cable length 1.5 m	-- 3VL9000-8LH21 3VL9000-8LH31	1 1	1 unit 1CC 1 unit 1CC
 NSE0_00680 3VL9....-8HA01		Safety lock assembly kits Key can be removed with the molded case circuit breaker in the "OFF" position <u>For motorized operating mechanism with stored energy mechanism</u> Lock types • Ronis • Filli Giussani		1	1 unit 1CC
		Sets of fixing screws (metric thread) Including the screws, washers and nuts required to secure a molded case circuit breaker to a prepared surface Set with 4 screws	3VL9600-8SA40	1	1 unit 1CC
 120_18885 3VL9...-8B.01		Transparent covers for releases, sealable To prevent access by unqualified personnel and unauthorized changes to settings (seal not included) • For Electronic Trip Unit • For thermal-magnetic release	3VL9700-8BL01 --	1	1 unit 1CC
 120_07678 3VL9000-8AP01		Battery power supply for activating/parameterizing/tripping the Electronic Trip Units (two 9 V blocks are required in addition)	3VL9000-8AP01	1	1 unit 1CC

¹⁾ Two interlocking modules and one Bowden cable are required.
Cannot be used in conjunction with motorized operating mechanism!

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

SD	For VL1200 UL (NG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL1600 UL (PG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.				
	3VL9800-3HL01		1	1 unit	1CC		3VL9800-3HL01		1	1 unit	1CC
	3VL9800-8LC01		1	1 unit	1CC		3VL9800-8LC01		1	1 unit	1CC
	3VL9800-8LA01		1	1 unit	1CC		3VL9800-8LA01		1	1 unit	1CC
	-- -- 3VL9000-8LH31		1	1 unit	1CC		-- -- 3VL9000-8LH31		1	1 unit	1CC
	3VL9715-8HA01 --		1	1 unit	1CC		3VL9715-8HA01 --		1	1 unit	1CC
	3VL9800-8SA40		1	1 unit	1CC		3VL9800-8SA40		1	1 unit	1CC
	3VL9700-8BL01 --		1	1 unit	1CC		3VL9700-8BL01 --		1	1 unit	1CC
	3VL9000-8AP01		1	1 unit	1CC		3VL9000-8AP01		1	1 unit	1CC

Molded Case Circuit Breakers

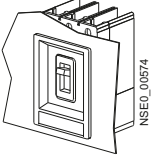
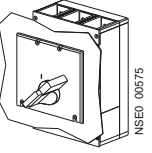
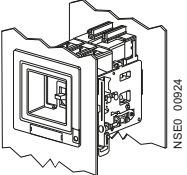
3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

Version	SD	For VL150X UL (CG frame)	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.	Price per PU		

Further accessories

3-pole					
Masking frames (cover frames) for door cut-outs					
 <p>Masking frame A</p>	A IP40	Fixed-mounted or plug-in molded case circuit breaker	3VL9300-8BC01	1	1 unit 1CC
 <p>Masking frame B</p>	B¹⁾ IP40	Fixed-mounted, plug-in or withdrawable molded case circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism	3VL9300-8BG01	1	1 unit 1CC
 <p>Masking frame C</p>	C IP20	Withdrawable molded case circuit breaker with toggle lever actuation. Assembly kit contains cover frame and extended escutcheon (cannot be used together with a motorized/rotary operating mechanism)	–		

Version	SD	For VL800 UL (MG frame)	PU (UNIT, SET, M)	PS	PG
	d	Article No. www.siemens.com/ product?Article No.	Price per PU		

Further accessories

3-pole					
Masking frames (cover frames) for door cut-outs					
	A IP40	Fixed-mounted or plug-in molded case circuit breaker	3VL9600-8BC01	1	1 unit 1CC
	B¹⁾ IP40	Fixed-mounted, plug-in or withdrawable molded case circuit breaker with front-operated rotary operating mechanism or motorized operating mechanism	3VL9600-8BG01	1	1 unit 1CC
	C IP20	Withdrawable molded case circuit breaker with toggle lever actuation. Assembly kit contains cover frame and extended escutcheon (cannot be used together with a motorized/rotary operating mechanism)	3VL9600-8BH01	1	1 unit 1CC

¹⁾ For withdrawable version IP20.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

SD	For VL150 UL (DG frame) and VL250 UL (FG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL400 UL (JG frame) and VL400X UL (LG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.				

3VL9300-8BC01

1 1 unit 1CC

3VL9400-8BC01

1 1 unit 1CC

3VL9300-8BG01

1 1 unit 1CC

3VL9400-8BG01

1 1 unit 1CC

3VL9300-8BH01

1 1 unit 1CC

3VL9400-8BH01

1 1 unit 1CC

SD	For VL1200 UL (NG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	For VL1600 UL (PG frame)	Price per PU	PU (UNIT, SET, M)	PS	PG
d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.				

3VL9800-8BC01

1 1 unit 1CC

3VL9800-8BC01

1 1 unit 1CC

3VL9800-8BG01

1 1 unit 1CC

3VL9800-8BG01

1 1 unit 1CC

3VL9800-8BH01

1 1 unit 1CC

3VL9800-8BH01

1 1 unit 1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

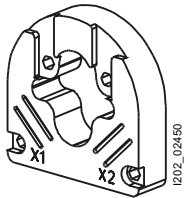
Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	d					

Further accessories

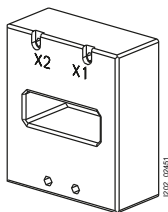
3-pole

Current transformers for N conductor/grounded neutral point of the transformer

for ground-fault protection in 4-wire three-phase systems



3VL9206-8TT01



3VL9660-8TT01

I_n /A of the ETU	Purpose				
60	for VL150 UL (DG frame)	3VL9206-8TT01		1	1 unit 1CC
100	for VL150 UL (DG frame)	3VL9310-8TT01		1	1 unit 1CC
	for VL250 UL (FG frame)	3VL9310-8TT01		1	1 unit 1CC
150	for VL150 UL (DG frame)	3VL9315-8TT01		1	1 unit 1CC
	for VL250 UL (FG frame)	3VL9315-8TT01		1	1 unit 1CC
250	for VL250 UL (FG frame)	3VL9425-8TT01		1	1 unit 1CC
	for VL400 UL (JG frame)	3VL9425-8TT01		1	1 unit 1CC
400	for VL400 UL (JG frame)	3VL9440-8TT01		1	1 unit 1CC
	for VL400X UL (LG frame)	3VL9440-8TT01		1	1 unit 1CC
600	for VL400X UL (LG frame)	3VL9660-8TT01		1	1 unit 1CC
	for VL800 UL (MG frame)	3VL9660-8TT01		1	1 unit 1CC
800	for VL800 UL (MG frame)	3VL9780-8TT01		1	1 unit 1CC
	for VL1200 UL (NG frame)	3VL9780-8TT01		1	1 unit 1CC
1000	for VL1200 UL (NG frame)	3VL9812-8TT01		1	1 unit 1CC
1200	for VL1200 UL (NG frame)	3VL9812-8TT01		1	1 unit 1CC
	for VL1600 UL (PG frame)	3VL9812-8TT01		1	1 unit 1CC
1600	for VL1600 UL (PG frame)	3VL9816-8TT01		1	1 unit 1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

Accessories and spare parts

2

For type	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		d					
Accessories for communication							
3-pole							
Data transmission							
VL150 UL (DG frame) to VL1600 UL (PG frame)	COM20 Release 2 (PROFIBUS module for 3VL molded case circuit breaker according to UL) Module for connecting the 3VL molded case circuit breaker according to UL with Electronic Trip Unit to the PROFIBUS DP, including switching function and Zone Selective Interlocking functionality, connecting cable to ETU not included in delivery		3VL9000-8AU00		1	1 unit	1CC
VL150 UL (DG frame) to VL1600 UL (PG frame)	COM21 Release 2 (Modbus module for 3VL molded case circuit breaker according to UL) Module for connecting the 3VL molded case circuit breaker according to UL with Electronic Trip Unit to a Modbus RTU bus system, including switching function and Zone Selective Interlocking functionality, connecting cable to ETU not included in delivery		3VL9000-8AV00		1	1 unit	1CC
	Addressing plugs For assigning the module addresses without using a PC/PG on COM20/COM21 (Release 2) through the system interface		3UF7910-0AA00-0		1	1 unit	42J
VL150 UL (DG frame) to VL250 UL (FG frame)	COMKIT3 Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 1.5 m • Alarm switches • Protective cover to protect the connecting cable		3VL9300-8AQ61		1	1 unit	1CC
VL400 UL (JG frame) to VL400X UL (LG frame)	COMKIT4 Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 1.5 m • Auxiliary switches and alarm switches • Protective cover to protect the connecting cable		3VL9400-8AQ61		1	1 unit	1CC
VL600 UL (MG frame) to VL1600 UL (PG frame)	COMKIT5 Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 1.5 m • Auxiliary switches and alarm switches • Protective cover to protect the connecting cable		3VL9800-8AQ61		1	1 unit	1CC
VL150 UL (DG frame) to VL250 UL (FG frame)	COMKIT6 Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 3 m • Alarm switches • Protective cover to protect the connecting cable		3VL9300-8AQ71		1	1 unit	1CC
VL400 UL (JG frame) to VL400X UL (LG frame)	COMKIT7 Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 3 m • Auxiliary switches and alarm switches • Protective cover to protect the connecting cable		3VL9400-8AQ71		1	1 unit	1CC
VL600 UL (MG frame) to VL1600 UL (PG frame)	COMKIT8 Communication interface for connecting a 3VL molded case circuit breaker according to UL to a COM20/COM21 (Release 2) communication module. Comprising: • Connecting cable length 3 m • Auxiliary switches and alarm switches • Protective cover to protect the connecting cable		3VL9800-8AQ71		1	1 unit	1CC

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

Design

- Rated current range from 20 A to 1600 A
- Different making and breaking capacities for each size

N	Standard (35 kA)
H	High (65 kA)
L	Very high (100 kA)

- No power reduction/derating up to 40 °C
- Electronic Trip Unit from size 150 A (VL150 UL, DG frame), especially for time-based discrimination and ground-fault protection
- 2 families of internal accessories
- Complete bandwidth of external accessories, e.g. terminals also for aluminum cables.

All molded case circuit breakers are supplied with integrated overcurrent releases. The VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers are available with different connection variants (see "Main connections, basic equipment and options", page 2/296). Auxiliary switches, alarm switches and auxiliary releases can be easily retrofitted in the molded case circuit breakers or, if requested, are already installed when delivered.

The breaking capacity is indicated on the front of every molded case circuit breaker.

- Standard breaking capacity:
35 kA at 50/60 Hz 480 V AC
- High breaking capacity:
65 kA at 50/60 Hz 480 V AC
- Very high breaking capacity:
100 kA at 50/60 Hz 480 V AC

Connection

The following connection types are available for 3VL molded case circuit breakers according to UL 489:

- Box terminal, suitable for stranded conductors,
- Screw terminals for flat connection,
- Circular conductor/multiple feed-in terminal for Al/Cu cables,
- Cable lug connection.

The infeed and outgoing sides can be chosen on the molded case circuit breaker to suit requirements. The electrical data remains unaffected.

Various terminals feature an auxiliary conductor connection. Up to 0.5 A can be tapped here to directly power other devices.

Bare conductors at the top terminals must be insulated in the space that is needed above the arc chute.

All auxiliary releases (shunt releases and undervoltage releases), auxiliary switches and alarm switches are equipped with screw terminals and therefore are easy to connect electrically.

The motorized operating mechanisms with spring energy store always feature terminals. The leading auxiliary switches for the rotary operating mechanisms are always supplied with connecting cables.

VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers

The main components of the 3VL molded case circuit breakers according to UL are the three conducting paths with incoming and outgoing terminals. The fixed and movable contacts are designed in such a way that magnetic repulsion of the contacts takes place under short-circuit conditions. In conjunction with the arc splitter chambers, a dynamic impedance is created that causes a current limitation through the reduction in the harmful effects of I^2t and the I_p energy resulting during short circuits.

The 3VL molded case circuit breaker has a trip-free mechanism.

The double-insulated accessory compartments for the auxiliary releases and auxiliary switches are located on the left and right of the circuit breaker's operating mechanism.

The overcurrent releases for the VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers have the following characteristics:

- The overcurrent releases are available in a thermal-magnetic version and in an electronic¹⁾ version.
- The thermal-magnetic releases have fixed overload releases and adjustable²⁾ short-circuit releases.

In the case of all versions of the 3VL molded case circuit breakers according to UL with electronic overcurrent release, the current transformers are in the same enclosure as the tripping electronics. They supply a signal proportional to the load current to the electronic overcurrent release system.

All 3VL molded case circuit breakers according to UL with electronic overcurrent release measure the actual RMS current. This is the most accurate method of measurement. Currents in present-day electrical distribution systems with very high harmonics are evaluated reliably.

Overcurrent tripping systems

The switching unit (frame) and release unit are assembled and tested at the factory. Accordingly, the release unit can only be replaced at the factory. The infeed and outgoing sides can be chosen on the molded case circuit breakers to suit requirements.

1. Thermal-magnetic releases of the VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers

The overcurrent releases and short-circuit releases work with bimetals and magnetic releases. They are available with fixed overload releases and adjustable short-circuit releases.²⁾

The 3VL molded case circuit breakers for starter combination applications are usually combined with a motor contactor and a suitable overload relay.

¹⁾ VL150X UL (CG frame) only thermal-magnetic.

²⁾ VL150X UL (CG frame) only with fixed short-circuit release.

The non-automatic air circuit breakers have integrated self-protection against short circuit so that back-up fuses can be omitted. Non-automatic air circuit breakers do not have overload protection.

2. Overcurrent releases of the VL150 UL (DG frame) to VL1600 UL (PG frame) molded case circuit breakers, electronic, ETU

The electronic tripping system consists of:

- 3 current transformers
- Evaluation electronics with microprocessor
- Intrinsic power supply, no external auxiliary power necessary
- Tripping solenoid.

In the case of VL150 UL (DG frame) and VL250 (FG frame) molded case circuit breakers, the left accessory compartment is needed for the tripping solenoid included in the scope of supply. In the case of all other sizes, the tripping solenoid is integrated in the release unit and the left and right accessory compartments can be used for auxiliary switches, alarm switches and additional auxiliary releases.

The protection functions of the Electronic Trip Units are ensured without additional auxiliary voltage. The overcurrent releases are supplied with energy via internal current transformers in the circuit breaker.

3. Overcurrent releases of the VL150 UL (DG frame) to VL1600 UL (PG frame) molded case circuit breakers, electronic, LCD ETU

For parameterizing, the electronic overcurrent release must be activated. A load current amounting to at least 20% of the relevant molded case circuit breaker's rated current I_n is needed to do this. If this load current is not available, the necessary auxiliary energy can be supplied via a battery power supply. In the case of molded case circuit breakers that are connected to an active COM20 (PROFIBUS) or COM21 (Modbus) communication module (Release 2) for data transmission, the release is powered via the module.

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

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

VL150 UL (DG frame) to VL1600 UL (PG frame) overcurrent releases – functional overview

Article No. supplement	Release/model	Line protection	Starter protection	Generator protection	Function	Setting options				
						L ¹⁾	S ¹⁾	I ¹⁾	G ¹⁾	
						Overload protection $I_r = \times I_n$	Short-circuit protection (short-time delayed) $I_{sd} = \times I_r$	t _{sd} [s]	Short-circuit protection (instantaneous) $I_i = \times I_n$	Ground-fault protection $I_g = \times I_n$
KJ	M	--	✓	--	I	--	--	--	3 ... 6	--
KK	M	--	✓	--	I	--	--	--	4 ... 10	--
KL	M	--	✓	--	I	--	--	--	7 ... 16	--
KN	TM/525	✓	--	--	LI	1	--	--	5 ... 10	--
PB	ETU/555	✓	--	--	LI	0.4 ... 1	--	--	1.25 ... 11	--
PD	ETU/555	✓	--	--	LIG	0.4 ... 1	--	--	1.25 ... 11	0.4 ... 1 ³⁾
PU	ETU/555	✓	--	✓	LSI	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	--
PH	ETU/555	✓	--	✓	LSIG	0.4 ... 1	1.5 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1 ³⁾
VH	LCD-ETU/586	✓	--	--	LI, LSI	0.4 ... 1	1.25 ... 10	0 ... 0.5	1.25 ... 11	--
VM	LCD-ETU/586	✓	--	--	LSIG	0.4 ... 1	1.25 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1 ²⁾
VJ	LCD-ETU/586	✓	--	--	LSI G (alarm)	0.4 ... 1	1.25 ... 10	0 ... 0.5	1.25 ... 11	0.4 ... 1 ²⁾

Article No. supplement	Release/model	Thermal image	Communication-capable	Ground-fault protection	Number of poles	I^2t (ON/OFF)	Time-lag class (t _g)	Thermal-magnetic releases	Magnetic releases	Electronic releases	LCD display
KJ	M	--	--	--	3	--	--	--	✓	--	--
KK	M	--	--	--	3	--	--	--	✓	--	--
KL	M	--	--	--	3	--	--	--	✓	--	--
KN	TM/525	✓	--	--	3	--	--	✓	--	--	--
PB	ETU/555	✓	✓	--	3	--	2.5 ... 30	--	--	✓	--
PD	ETU/555	✓	✓	①	3	--	2.5 ... 30	--	--	✓	--
PU	ETU/555	✓	✓	--	3	✓	--	--	--	✓	--
PH	ETU/555	✓	✓	①	3	✓	--	--	--	✓	--
VH	LCD-ETU/586	✓	✓	--	3	✓	2.5 ... 30	--	--	✓	✓
VM	LCD-ETU/586	✓	✓	① / ②	3	✓	2.5 ... 30	--	--	✓	✓
VJ	LCD-ETU/586	✓	✓	① / ②	3	✓	2.5 ... 30	--	--	✓	✓

Ground-fault protection

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

1) Size dependent.

2) t_g 0.1 s to 0.5 s.

3) t_g 0.07 s to 0.4 s size-dependent

Internal accessories (auxiliary switches, undervoltage releases, shunt releases)

3VL molded case circuit breakers according to UL can be supplied completely equipped with internal accessories (e.g. auxiliary switches, undervoltage releases or shunt releases). Refer to the tables of Article No. supplements for details of possible versions.

Fixed-mounted, plug-in or withdrawable version

The fixed-mounted molded case circuit breaker is the basic version. Using the appropriate assembly kit, it can be changed to a plug-in or withdrawable version. This assembly kit contains blade contacts, a locking pin and terminal covers for the plug-in version. The assembly kit for the withdrawable version additionally includes side panels and a racking mechanism. Even when the masking frame is fitted, movement using the withdrawable unit's handle is possible while the door is closed.

Operating mechanisms

In the basic version, the 3VL molded case circuit breakers according to UL have a toggle lever as an operating mechanism. This also functions as an indicator of the switch position. The "Tripped" position is also displayed in addition to the "ON" and "OFF" positions.

The toggle lever goes to the "tripped" position when the internal tripping mechanism is activated by overcurrent tripping, e.g. on overload or short-circuit. Activation of an undervoltage release or shunt release will also cause the toggle lever to move to the "Tripped" position. The toggle lever must be moved to the "OFF/RESET" position before the molded case circuit breaker can be closed again. This enables reset of the internal tripping mechanism and reactivation of the molded case circuit breaker's main contacts (see figure).

A toggle lever extension is supplied with the VL1200 UL (NG frame) and VL1600 UL (PG frame) molded case circuit breakers. For the VL400 UL (JG frame) to VL800 UL (MG frame) molded case circuit breakers, this accessory must be ordered separately if required.

Front-operated rotary operating mechanisms

These operating mechanisms are designed for direct attachment to 3VL molded case circuit breakers according to UL and convert movement of the toggle lever from a linear to a rotary movement.

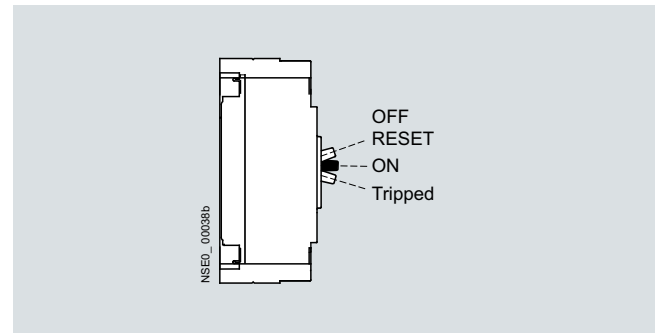
For a molded case circuit breaker with leading auxiliary switches, the undervoltage release can be connected to voltage in a leading fashion, as a result of which the molded case circuit breaker is ready for closing.

Door-coupling rotary operating mechanisms (complete operating mechanisms)

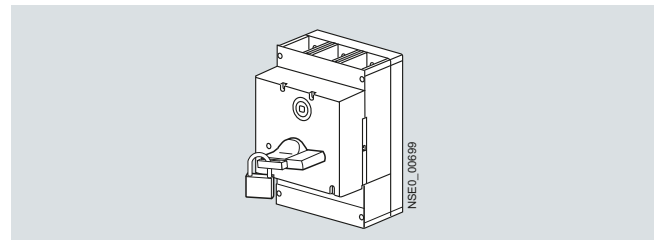
When the molded case circuit breakers are installed in control cabinets and distribution boards, door-coupling rotary operating mechanisms are available for doors and removable covers. These operating mechanisms are supplied as complete assembly kits, including an articulated-shaft mechanism.

With regard to switch positions and the "RESET" position, the same applies to rotary operating mechanisms as to toggle lever operating mechanisms. Indication is by the position of the operator lever (knob).

All 3VL molded case circuit breakers according to UL that feature these rotary operating mechanisms and corresponding terminal covers can be used as main disconnecting means.



Toggle lever operating mechanism positions



Rotary operating mechanism locked with padlock

Motorized operating mechanisms

VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers can be equipped with motorized operating mechanisms for operational remote closing and opening.

The motorized operating mechanisms for VL150X UL (CG frame) to VL800 UL (MG frame) molded case circuit breakers have a spring energy store (for synchronization) with a maximum ON period of $t_E \leq 80$ ms.

Motorized operating mechanisms without spring energy store for remotely controlled ON and OFF switching are available for the VL1200 UL (NG frame) and VL1600 UL (PG frame) molded case circuit breakers.

All motorized operating mechanisms are always supplied with a locking device for padlocks. Moreover, optional safety locks for motorized operating mechanisms with stored energy mechanism are also available.

The locking devices can be used for electrical and mechanical blocking of the operating mechanism. All remote operating mechanisms are equipped with a manual operating possibility for maintenance purposes.

Optionally, the motorized operating mechanisms for VL150X UL (CG frame) to VL800 UL (MG frame) and also the motorized operating mechanisms for VL1200 UL (NG frame) and VL1600 UL (PG frame) are each internally equipped with a floating signaling contact (normally open) for the following functions:

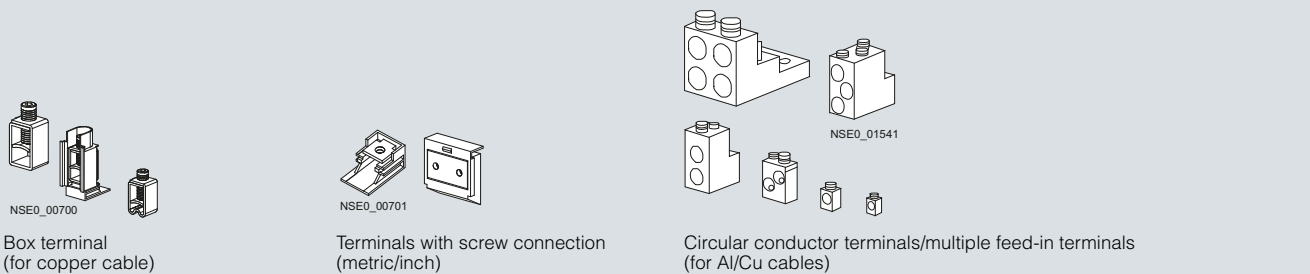
- Querying the AUTO/Manual selector switch for VL150X UL (CG frame) to VL800 UL (MG frame)
- Operating the mechanical OFF/0 button

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

Main connections, basic equipment and options



Main connections

Molded case circuit breakers	Connection overview and further options						
	Box terminals Cu only	Screw terminals for flat connection		Circular conductor terminal/ multiple feed-in terminal Cu or Al	Rear connections	Cable lug connection	Direct connection of bars possible (IEC-approved circuit breakers only)
		with metric thread	with inch thread				
VL150X UL (CG frame)	x	x	--	x	x	--	--
VL150 UL (DG frame)	x	x	x	x	x	x	--
VL250 UL (FG frame)	x	x	x	x	x	x	--
VL400 UL (JG frame)	x	x	--	x ^{1) 2)}	x	x	--
VL400X UL (LG frame)	--	x	x	x ^{1) 2)}	x	x	--
VL800 UL (MG frame)	--	x	x	x ¹⁾	x	x	--
VL1200 UL (NG frame)	--	x	x	x ¹⁾	x	x	--
VL1600 UL (PG frame)	--	x	x	x ¹⁾	x	--	--

x Available

-- Not available

¹⁾ Multiple feed-in terminals

²⁾ Circular conductor terminal also available.

Note

For conductor cross-sections, see [operating instructions](#).

Auxiliary releases and auxiliary switches

Undervoltage releases, leading auxiliary switches

If there is no voltage present, closing of the molded case circuit breaker is not possible. When no voltage is applied to the release, operating the circuit breaker leads to no-load switching.

Frequent no-load switching should be avoided to prevent shortening the molded case circuit breaker's useful life.

For a molded case circuit breaker with leading auxiliary switches, the undervoltage release can be connected to voltage in a leading fashion, as a result of which the molded case circuit breaker is ready for closing.

In the case of 3VL molded case circuit breakers according to UL, the leading auxiliary switch can be supplied together with the front-operated rotary operating mechanisms and complete operating mechanisms. For further information, see ["Selection and ordering data" for accessories](#).

Shunt releases

Shunt releases are used to remotely trip the molded case circuit breaker.

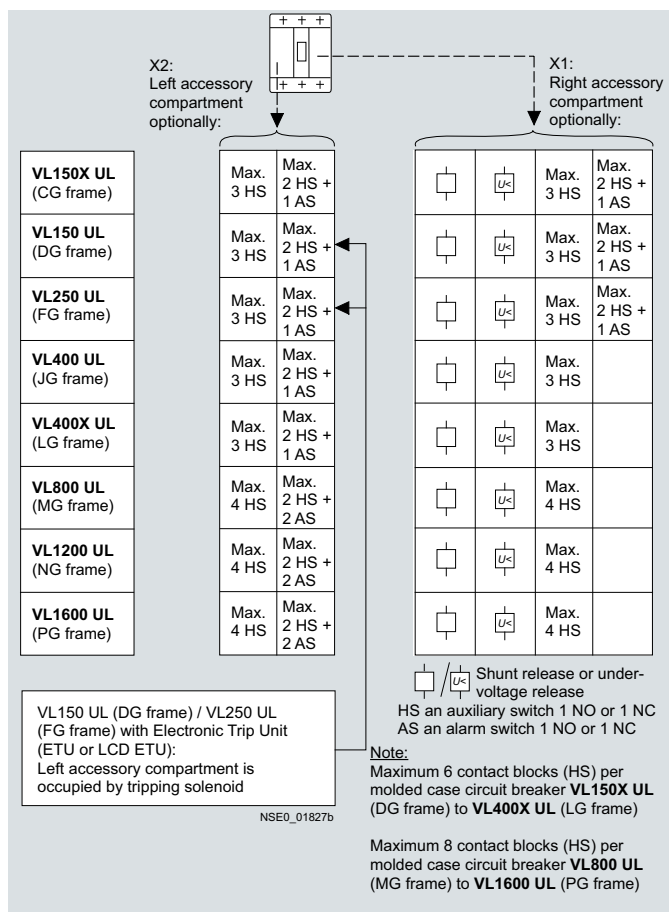
The shunt release's coil is designed for short-time operation. Coil deactivation is installed internally.

When a molded case circuit breaker is open, it is not permitted to apply a continuous opening command to the shunt release to prevent closing.

A center tap is available as standard to test the coil for continuity.

Note

Before ordering, use the graphic on the right to check whether the required combination of shunt releases, undervoltage releases and auxiliary/alarm switches is feasible.



Equipment options for the insulated accessory compartments in the 3VL molded case circuit breakers according to UL

Auxiliary switches

Auxiliary switches (HS) are used for signaling and controlling. The contacts of the auxiliary switch open and close along with the main contacts.

Alarm switches

Alarm switches (AS) operate when the molded case circuit breaker has been tripped due to an overcurrent situation, e.g. an overload or short circuit. However, they are also activated when the molded case circuit breaker has been tripped by a shunt release or an undervoltage release.

Installation of internal accessories

The insulated accessory compartments in the molded case circuit breakers for installation of internal accessories (auxiliary releases and auxiliary/alarm switches) are designated X1, X2 and X4.

Equipment of the molded case circuit breaker with internal accessories and the possibility of combination with auxiliary releases and auxiliary/alarm switches depend on the installation position and frame size of the molded case circuit breaker (see figure entitled "Equipment options for the insulated accessory compartments in the 3VL molded case circuit breakers according to UL").

PLC control

The auxiliary and alarm switches are suitable for PLC control. These switching elements are from the Siemens 3SB3 program.

Leading auxiliary switches

The leading auxiliary switches from OFF to ON or from ON to OFF are available as retrofit kits and for Max-Flex operating mechanisms.

Function**Current limiting¹⁾**

3VL molded case circuit breakers according to UL are designed on the principle of magnetic repulsion of the contacts. The contacts open before the expected peak value of the short-circuit current is reached. The current-limiting effects of the 3VL molded case circuit breakers according to UL protect the system components effectively against thermal and dynamic effects of the short-circuit current in the event of an electrical fault.

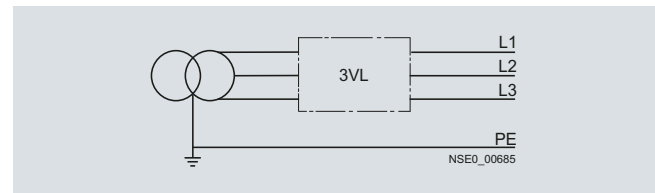
Ground-fault protection

The ground-fault release "G" captures fault currents escaping to ground that can cause fires in the plant. Several molded case circuit breakers connected in series can be assigned graduated discrimination by means of the adjustable delay time.

The following measurement methods can be used to detect neutral conductor and ground-fault currents:

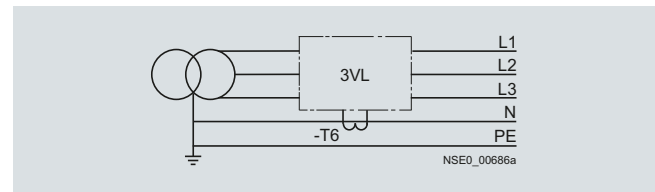
Vectorial summation current formation (measurement method 1)Ground-fault detection in balanced systems

The three phase currents are evaluated using vectorial summation current formation.

Ground-fault detection in unbalanced systems

The neutral conductor current is measured directly and, in the case of the 3-pole circuit breakers, is only evaluated for ground-fault protection.

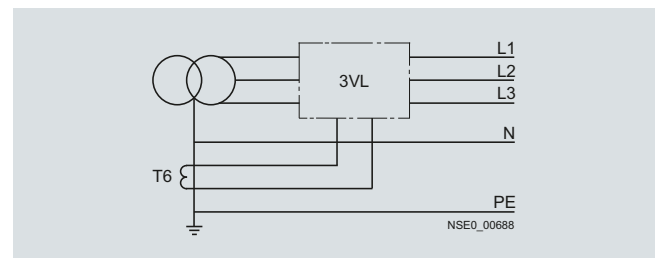
The overcurrent release calculates the ground-fault current using the vectorial summation of the three phase currents and the neutral conductor current.



3-pole molded case circuit breaker, current transformer in neutral conductor

Direct detection of the ground-fault current via a current transformer at the grounded star point of the transformer (measurement method 2)

The current transformer is installed directly at the grounded neutral point of the transformer.



3-pole molded case circuit breaker, current transformer at the grounded star point of the transformer

Transformer protection

The 3VL molded case circuit breakers according to UL protect power distribution systems in the event of overload and short circuit as from the low-voltage side of the infeed transformer. The resulting requirements for current and/or time-based discrimination are fulfilled reliably by 3VL molded case circuit breakers according to UL for line protection – equipped with thermal-magnetic (TM) or Electronic Trip Units (ETU or LCD ETU).

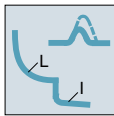
¹⁾ Not current-limiting in terms of "Current limiting according to UL 489".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

Thermal-magnetic releases (TM)



NSE0_00689

Application: line protection –
TM, LI/LIN function

Overload protection, fixed,
short-circuit protection, fixed,
see "Selection and ordering data" for
VL150X UL (CG frame),
integrated releases in the circuit breaker enclosure;
KM version.

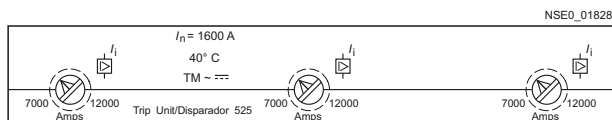


I201_19069

Application: line protection –
TM/model 525, LI/LIN function

Overload protection, fixed,
short-circuit protection, adjustable
 $I_i = 5$ to $10 \times I_n^{(1)}$, for VL150 UL (DG frame)
to VL1600 UL (PG frame);

KN version



NSE0_01828

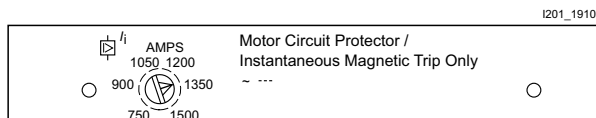


NSE0_00707

Application: Starter protection –
M, I function

Short-circuit protection, adjustable
 $I_i = 3$ to $16 \times I_n^{(1)}$, for VL150 UL (DG frame) to
VL1200 UL (NG frame);

KJ, KK, KL versions.



I201_19109



NSE0_00708

Application: Switch disconnectors in molded case
circuit breaker design – M, I function (for intrinsic
protection)

Short-circuit protection, fixed
KE version

¹⁾ Size-dependent, see "Selection and ordering data".

Electronic Trip Units (ETU)

For types
VL150 UL
(DG frame)
to
VL1600 UL
(PG frame)

General information:

- No auxiliary voltage required for release system
- All ETUs have a thermal image
- A flashing green LED indicates correct operation of the microprocessor

- Overload status ($I > 1.05 \times I_r$) is indicated by a permanently lit yellow LED (alarm)
- Integral self-test function
- Socket for battery power supply
- Communication link to PROFIBUS DP and Modbus RTU possible



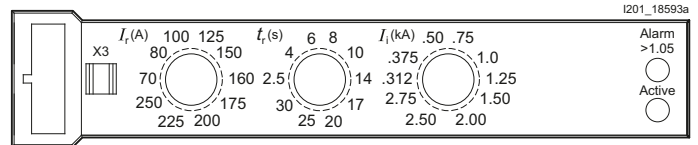
NSE0_00691

Application: line protection – model 555, LI function

Overload protection $I_r = 0.28$ to $1 \times I_n^{(1)}$,
time-lag class $t_r = 2.5$ to 30

Short-circuit protection (instantaneous)
 $I_i = 1.25$ to $11 \times I_n^{(1)}$;

PB version



I201_18593a



NSE0_00620

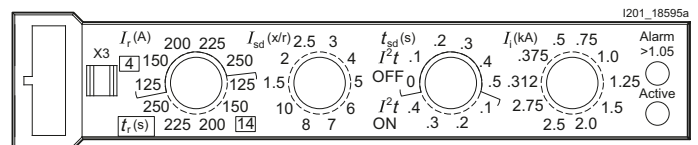
Application: Line and generator protection – model 555, LSI function

Overload protection $I_r = 0.4$ to $1 \times I_n^{(1)}$,

Short-circuit protection (short-time delay)
 $I_{sd} = 1.5$ to $10 \times I_R^{(1)}$, $t_{sd} = 0$ to 0.5 s,
 I^2t on/off selectable

Short-circuit protection (instantaneous)
 $I_i = 1.25$ to $11 \times I_n$ (fixed)¹⁾

PE version



I201_18594a



NSE0_00693

Application: line protection – model 555, LIG function

Overload protection $I_r = 0.28$ to $1 \times I_n^{(1)}$,
time-lag class $t_r = 2.5$ to 30

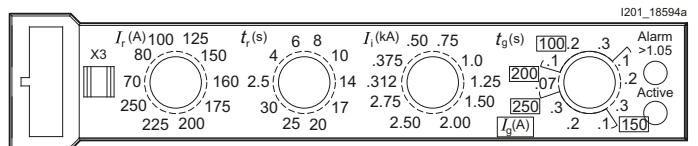
Short-circuit protection (instantaneous)
 $I_i = 1.25$ to $11 \times I_n^{(1)}$

Ground-fault protection: measurement method
No. 1:

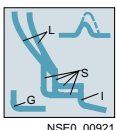
(G_R) vectorial summation current formation of
the currents in the three phases and the neutral
conductor

(4-wire systems); $I_g = 0.4$ to $1 \times I_n^{(1)}$

PD version



I201_18594a



NSE0_00921

Application: Line and generator protection – model 555, LSIG function

Overload protection $I_r = 0.4$ to $1 \times I_n^{(1)}$,

Short-circuit protection (short-time delay)
 $I_{sd} = 1.5$ to $10 \times I_r^{(1)}$, $t_{sd} = 0$ to 0.5 s,
 I^2t on/off selectable

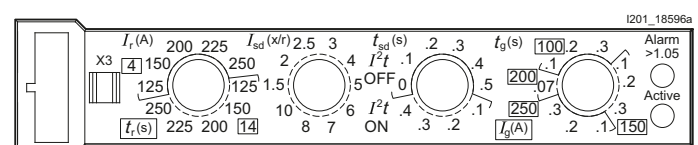
Short-circuit protection (instantaneous)
 $I_i = 1.25$ to $11 \times I_n^{(1)}$

Ground-fault protection: measurement
method No. 1:

(G_R) vectorial summation current formation of
the currents in the three phases and the
neutral conductor

(4-wire systems); $I_g = 0.4$ to $1 \times I_n^{(1)}$

PH version



I201_18596a

¹⁾ Size-dependent, see "Selection and ordering data".

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

Electronic Trip Units with LCD (LCD ETU)

General information:

- No auxiliary voltage required for release system
- Current display
- An illuminated green LCD display indicates correct operation of the microprocessor
- Overload status ($I > 105\% I_r$) is indicated by "Overload" on the LCD display

- Direct, user-friendly, menu-driven setting of the absolute values of the protection parameters in the ampere values via keys
- Integral self-test function
- Socket for battery power supply
- Communication link to PROFIBUS DP and Modbus RTU possible

Application:

line protection – model 586, LSI function

Overload protection $I_r = 0.4$ to $1 \times I_n$,
time-lag class $t_r = 2.5$ to 30

Thermal image selectable on/off

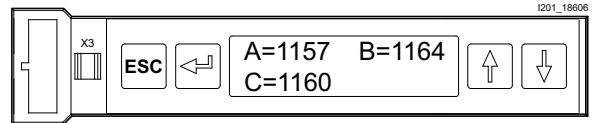
Short-circuit protection (short-time delay)

$I_{sd} = 1.25$ to $10 \times I_R^{(1)}$, $t_{sd} = 0$ to 0.5 s,
 I^2t on/off selectable

Short-circuit protection (instantaneous)

$I_i = 1.25$ to $11 \times I_n^{(1)}$

VH version



Application:

line protection – model 586, LSI G function

Overload protection $I_r = 0.4$ to $1 \times I_n$,
time-lag class $t_r = 2.5$ to 30

Thermal image selectable on/off

Short-circuit protection (short-time delay)

$I_{sd} = 1.25$ to $10 \times I_R^{(1)}$, $t_{sd} = 0$ to 0.5 s,
 I^2t on/off selectable

Short-circuit protection (instantaneous)

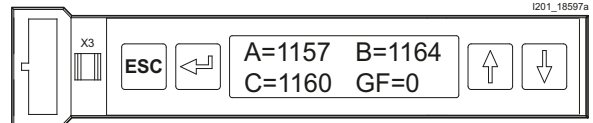
$I_i = 1.25$ to $11 \times I_n^{(1)}$

Ground-fault protection: measurement method No. 1:
(G_R) vectorial summation current formation of the currents
in the three phases and the neutral conductor
(4-wire systems);
 $I_g = 0.4$ to $1 \times I_n^{(1)}$.

Measurement method No. 2:

(G_{GND}) direct measurement of the ground-fault current
using a current transformer, $I_g = 0.4$ to $1 \times I_n$,
 $t_g = 0.1$ to 0.5 s.

VM version



Application: line protection – model 586,
LSI G (alarm) function

Overload protection $I_r = 0.4$ to $1 \times I_n$,
time-lag class $t_r = 2.5$ to 30

Thermal image selectable on/off

Short-circuit protection (short-time delay)

$I_{sd} = 1.25$ to $10 \times I_R^{(1)}$, $t_{sd} = 0$ to 0.5 s,
 I^2t on/off selectable

Short-circuit protection (instantaneous)

$I_i = 1.25$ to $11 \times I_n^{(1)}$

Ground-fault protection:

Measurement method No. 1:

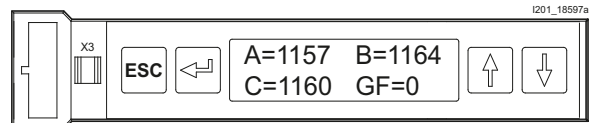
(G_R) vectorial summation current formation of the currents
in the three phases and the neutral conductor
(4-wire systems);
 $I_g = 0.4$ to $1 \times I_n^{(1)}$.

Measurement method No. 2:

(G_{GND}) direct measurement of the ground-fault current
using a current transformer, $I_g = 0.4$ to $1 \times I_n$,
 $t_g = 0.1$ to 0.5 s.

If a ground fault is detected, the LCD ETU only issues an
alarm, without tripping the circuit breaker. This alarm is
displayed direct on the display and/or is communicated to
higher-level systems via PROFIBUS DP/Modbus RTU.

VJ version



¹⁾ Size-dependent, see "Selection and ordering data".

Configuration

Communication

All 3VL molded case circuit breakers according to UL 489 with Electronic Trip Unit (ETU) are communication-capable. To this end, the molded case circuit breaker's ETU is connected to a COM20 or COM21 communication module by means of a cable. The COM20 module (Release 2) supports the PROFIBUS DP protocol, while the COM21 module (Release 2) enables data transfer via Modbus RTU.

A communication kit – COMKIT 3 to 8 – is needed to connect the 3VL molded case circuit breaker (see page 2/291).

The COMKITs consist of a connecting cable including a protective cover and also one alarm and auxiliary switch each for installation in the molded case circuit breaker.¹⁾ These are also connected to the Electronic Trip Unit and signal the ON/OFF/TRIPPED circuit breaker status to the Electronic Trip Unit.

The communication modules enable activation and deactivation of an optional motorized operating mechanism.

	Data transmission through COM20/COM21 (Release 2)
Data transferred	
Commands	
Closing or opening	✓
Deleting alarm and tripping operation buffer and also maintenance information	✓
Operating states²⁾	
ON or OFF status trip position	✓
Event messages	
Tripped messages with tripping current	✓
Alarms (e.g. overload, phase unbalance current, etc.)	✓
Threshold violation (e.g. phase currents)	✓
Measured values	
Phase currents and neutral conductor current	✓
Parameter values	
Reading and writing	✓
Maintenance information	
(e.g. number of trips, number of switching operations)	✓
Data for device identification	
	✓
Clock synchronization	
	✓

✓ Available

Function	COM20/21 (Release 2) module with overcurrent release version	
	ETU	LCD ETU
Functions of communication components		
Transfer of the operating state (ON, OFF, tripped, warnings, tripped causes, event log, etc.) to the PROFIBUS	✓	✓
Display of measured values (current only) and parameters in the release, modifying parameters via the display	--	✓ ³⁾
Transferring the maximum value of the actual current in %	✓	✓
Transferring the individual actual phase currents	✓	✓
Transferring PROFIBUS identification data	✓	✓
Reading protection parameters via PROFIBUS/Modbus	✓	✓
Reading and setting protection parameters via PROFIBUS/Modbus	--	✓

✓ Function available.

Function can optionally be adopted by several trip units.

-- Function not available

¹⁾ Only an alarm switch is included with the COMKITs 3 and 6 because the auxiliary switch in the case of DG and FG frame sizes of the 3VL molded case circuit breakers is already included in the magnetic release (Maglatch).

²⁾ Only in the case of built-in auxiliary switches connected to COM20/21 (Release 2)

³⁾ COM20/21 not required

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

Switching direct current

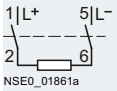
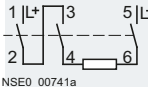
The VL150X UL (CG frame) to VL1600 UL (PG frame) molded case circuit breakers for line protection with thermal-magnetic trip units, for starter combinations, and for non-automatic air circuit breaker versions are also suitable for switching and protecting direct current.

The maximum permitted DC voltage for each conducting path needs to be taken into account for DC switching applications, however.

Series connection of 2 to 3 conducting paths is required for voltages in excess of 250 V in the case of VL150 UL (DG frame) to VL1600 UL (PG frame).

The following circuits are recommended since the current must flow through all conducting paths in order to conform to the thermal tripping characteristic curves.

The threshold values of the instantaneous short-circuit trip units ("I" trip units) increase by 30 to 40%.

Recommended circuit/maximum permitted DC voltage U_e		Remarks
Circuit A	Circuit B	
For 3-pole molded case circuit breakers		
250 V DC  NSE0_01861a	500 V DC rated / 600 V DC max. for use in ungrounded UPS DC applications (according to UL 489, Supplement SC)  NSE0_00741a	2-pole switching (ungrounded system)

Technical specifications

Type	VL150X UL CG frame	VL150 UL DG frame	VL250 UL FG frame	VL400 UL JG frame	VL400X UL LG frame	VL800 UL MG frame	VL1200 UL NG frame	VL1600 UL PG frame	
Max. rated current I_n	A 150	150	250	400	600	800	1200	1600	
Rated insulation voltage U_i, only in accordance with IEC 60947-2									
Main conducting paths	V AC 800								
Auxiliary circuits	V AC 690								
Rated operational voltage U_e									
NEMA 50/60 Hz	V AC 600								
	V DC ¹⁾ 250								
IEC 50/60 Hz	V AC 690								
Utilization category	A								
Permissible ambient temperature									
Operation: 0 °C ... +70 °C for devices with TM release (cf. IEC system manual)	°C -25 ... +70								
Storage	°C -40 ... +80								
Permissible load at different ambient temperatures									
Directly next to the molded case circuit breaker, referred to the molded case circuit breaker's rated current									
• Molded case circuit breaker for line protection	TM/ETU	Up to 40 °C	% 100	100/100			100/100		100/100
		At 50 °C	% 93	93/100			94/100		92/100
		At 60 °C	% 86	86/95			88/95		83/95
		At 70 °C	% 79	79/80			82/80		75/80
• Molded case circuit breaker for starter combinations and non-automatic air circuit breakers		Up to 40 °C	% 100						
		At 50 °C	% 100						
		At 60 °C	% 93						
		At 70 °C	% 86						
Weight data of 3-pole molded case circuit breakers									
Basic circuit breaker									
• With thermal-magnetic release • With Electronic Trip Unit	kg	2.5	2.2	2.3	5.7	9.0	14.0	21.8	32.8
	kg	--	2.4	2.5	5.9	9.3	16.0	25.0	31.3
Rated short-circuit breaking capacity	For rated short-circuit breaking capacity, see under "Overview" in table.								

¹⁾ DC rated data applies to thermal-magnetic releases only.

²⁾ 500 V DC rated / 600 V DC max. for use in ungrounded UPS DC applications (according to UL 489, Supplement SC)

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

2

Type		VL150X UL CG frame	VL150 UL DG frame	VL250 UL FG frame	VL400 UL JG frame	VL400X UL LG frame	VL800 UL MG frame	VL1200 UL NG frame	VL1600 UL PG frame
Endurance	Switching cycles	20000				10000		3000	
Electrical endurance	Switching cycles	10000				5000	3000	1500	
Max. switching frequency	1/h	120				60		30	
Connection types		See "Main connections, basic equipment and options"							
Connection cross-sections for stranded cables									
Box terminal (Cu)	AWG/kcmil	1 x (14 ... 1/0)	1 x (8 ... 1/0)	1 x (3 ... 250)	1 x (1/0 ... 600)	--			
	mm ²	1 x (2.5 ... 50)	1 x (10 ... 50)	1 x (35 ... 120)	1 x (70 ... 300)	--			
Circular conductor terminal (Cu/Al)	AWG/kcmil	1 x (6 ... 3/0)		1 x (4 ... 350)	1 x Cu: 3/0 ... 600 Al: 250 ... 750	--			
	mm ²	1 x (16 ... 70)		1 x (25 ... 150)	1 x Cu: 95 ... 300 Al: 150 ... 300	--			
Circular conductor terminal with terminal cover (Cu/Al)	AWG/kcmil	--	1 x (6 ... 300)	--					
	mm ²	--	1 x (16 ... 150)	--					
Multiple feed-in terminal (Cu/Al)	AWG/kcmil	--			2 x (3/0 ... 250)	2 x (2 ... 600)	2 x (500 ... 750)	--	
	mm ²	--			2 x (95 ... 120)	2 x (35 ... 300)	2 x 300	--	
	AWG/kcmil	--					3 x (1/0 ... 500)	3 x (500 ... 750)	--
	mm ²	--					3 x (70 ... 240)	3 x 300	--
	AWG/kcmil	--					--	4 x (1/0 ... 500)	--
	mm ²	--					--	4 x (70 ... 240)	--
	AWG/kcmil	--					--		4 x (600 ... 750)
	mm ²	--					--		4 x 300
Multiple feed-in terminal with terminal cover	AWG/kcmil	--			2 x (2 ... 600)	--			
	mm ²	--			2 x (35 ... 300)	--			
Direct connection of busbars (Cu/Al, for IEC only)	mm	17 x 7	22 x 7	24 x 7	32 x 10	32 x 10	2 x 40 x 10	2 x 50 x 10	3 x 60 x 10
Screw for connection with screw terminal, metric	M 6			M 8		M10	M 8		
	inch	--	10-32 UNF	5/16	--	3/8	5/16		
Power losses per molded case circuit breaker at max. rated current									
Line protection	TM	W 17 ... 36	15 ... 48	32 ... 80	60 ... 175	85 ... 230	194 ... 269	150 ... 204	204 ... 329
Line protection	ETU or LCD ETU	W --	6 ... 40	11 ... 60	38 ... 90	71 ... 160	140 ... 250	93 ... 210	146 ... 260
For starter combinations or non-automatic air circuit breakers	W	36	40	60	90	160	250	210	260
Permissible mounting position¹⁾									

¹⁾ For VL800 UL (MG frame) to VL1600 UL (PG frame) molded case circuit breakers with withdrawable unit frame in lateral installation position. Adapter set on request.

²⁾ Permissible current load factor 0.9; with internal accessories only.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

Type		VL150X UL CG frame	VL150 UL DG frame	VL250 UL FG frame	VL400 UL JG frame	VL400X UL LG frame	VL800 UL MG frame	VL1200 UL NG frame	VL1600 UL PG frame	
Auxiliary switches and alarm switches										
Conventional free-air thermal current I_{th}	A	10								
Rated making capacity	A	10								
AC										
Rated operational voltage	V	24	48	110	230	400	600	--		
Rated operating current	AC-12 A	10				3		1		
	AC-15 A	6				3		1		
DC										
Rated operational voltage	V	24	48	110	230	--				
Rated operating current	DC-12 A	10	5	2.5	1	--				
	DC-13 A	3	1.5	0.7	0.3	--				
Back-up fuse/miniature circuit breaker	A	10 TDz/10								
Leading auxiliary switch in rotary mechanism										
Thermal rated current I_{th}	A	2								
Rated making capacity	A	2 (ind. 0.5)								
Rated operational voltage	V AC	230								
Rated operating current	A	2								
Rated breaking capacity, inductive, p.f. = 0.7	A	0.5								
Rated breaking capacity	A	2								
Quick-response short-circuit fuse	A	2								
Position signaling switches										
Thermal rated current I_{th}	A	16	--							
Rated making capacity	A	16	10	--						
Rated operational voltage	V AC	250	400	--						
Rated operating current	A	16	10	--						
Rated breaking capacity, inductive, p.f. = 0.7	A	4	--							
Rated breaking capacity	A	16	10	--						
Quick-response short-circuit fuse	A	16	10	--						
Releases										
		Family 1: VL150X UL (CG frame) to VL400X UL (LG frame)					Family 2: VL800 UL (MG frame) to VL1600 UL (PG frame)			
Undervoltage releases										
Response voltage:										
• Release (circuit breaker trips)	V	0.35 ... 0.70 × U_s					0.35 ... 0.70 × U_s			
• Pick-up (circuit breaker can be switched on)	V	0.85 ... 1.1 × U_s					0.85 ... 1.1 × U_s			
Power consumption (continuous operation) at:										
• 24 V AC 50/60 Hz ¹⁾	VA	1.4					--			
• 110 ... 127 V AC 50/60 Hz	VA	1.0					1.8			
• 220 ... 250 V AC 50/60 Hz	VA	1.0					1.8			
• 208 V AC 50/60 Hz	VA	1.0					1.8			
• 277 V AC 50/60 Hz	VA	1.0					1.8			
• 380 ... 415 V AC 50/60 Hz	VA	1.0					1.8			
• 440 ... 480 V AC 50/60 Hz	VA	1.0					1.8			
• 500 ... 525 V AC 50/60 Hz	VA	1.0					--			
• 12 V DC	W	0.8					1.5			
• 24 V DC	W	0.8					1.5			
• 48 V DC	W	0.8					1.5			
• 60 V DC	W	0.8					1.5			
• 110 ... 127 V DC	W	0.8					1.5			
• 220 ... 250 V DC	W	0.8					1.5			
Max. opening time	ms	50 ²⁾					80			
Shunt releases										
Response voltage:										
Pick-up (switch tripped)	V	U_s					U_s			
Pick-up (switch tripped)	V	0.7 ... 1.1					0.7 ... 1.1			
Power consumption (short-time) at:										
• 24 V AC 50/60 Hz	VA	310					330			
• 48 ... 60 V AC 50/60 Hz	VA	335 ... 465					380 ... 460			
• 110 ... 127 V AC 50/60 Hz	VA	470 ... 630					330 ... 430			
• 208 ... 277 V AC 50/60 Hz	VA	585 ... 1000					520 ... 800			
• 380 ... 600 V AC 50/60 Hz	VA	180 ... 500					228 ... 750			
• 24 V DC	W	360					385			
• 48 ... 60 V DC	W	380 ... 590					480 ... 720			
• 110 ... 127 V DC	W	506 ... 680					362 ... 424			
• 220 ... 250 V DC	W	470 ... 580					418 ... 476			
Max. opening time	ms	50					50			
Max. in-service period	s	interrupts automatically, less than 10 ms					interrupts automatically, less than 10 ms			

¹⁾ On request.

²⁾ 3VL9400-1UP01: 15 ms

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

2

Type	VL150X UL		VL150 UL	VL250 UL	VL400 UL	VL400X UL	VL800 UL	VL1200 UL	VL1600 UL		
	CG frame	DG frame	FG frame	JG frame	LG frame	MG frame	NG frame	PG frame			
Motorized operating mechanisms	--							x			
Motorized operating mechanism with spring energy store (synchronizable)	x								--		
Motorized operating mechanism											
Power consumption	VA/W	--							< 250		
Rated control supply voltage U_s	50/60Hz V AC	--							42 ... 48/60	110 ... 127/220 ... 250	
	V DC	--							24 / 42 ... 48/60	110 ... 127/220 ... 250	
Fusible link (operational class gG, slow-blow characteristic)	A	--							4	2	
Miniature circuit breakers	A	--							4	2	
Primary operating range	V	--							0.85 ... 1.1 x U_s		
Min. command duration U_s	ms	--							50		
Max. command duration, connection-dependent ¹⁾		Jog/pushbutton or continuous command			--		Jog/pushbutton or continuous command				
Total make time	s	--							< 5		
Break time	s	--							< 5		
Interval between the commands OFF and ON	s	--							> 5		
Interval between the commands ON and OFF	s	--							> 5		
Max. permissible switching frequency	1/h	--							30		
Motorized operating mechanism with spring energy store (synchronizable)											
Power consumption	VA/W	< 100			< 200		< 250		--		
Rated control supply voltage U_s	50/60Hz V AC	42 ... 48 / 60			110 ... 127 / 220 ... 250			--			
	V DC	24 / 42 ... 48 / 60			110 ... 127 / 220 ... 250			--			
Fusible link (operational class gG, slow-blow characteristic)	A	4			2		--				
Miniature circuit breakers	A	4			2		--				
Primary operating range	V	0.85 ... 1.1 x U_s									
Min. command duration U_s	ms	50									
Max. command duration, connection-dependent ¹⁾		Jog/pushbutton or continuous command									
Total make time	ms	< 100									
Break time	s	< 5									
Interval between the commands OFF and ON	s	> 5									
Interval between the commands ON and OFF	s	> 1									
Max. permissible switching frequency	1/h	120			60		--				

x Available

-- Not available

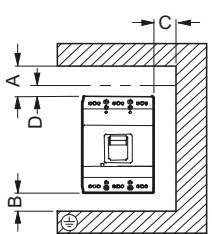
1) Changeover contact also permissible, but note the interval times between ON and OFF.

Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, according to UL 489

General data

Space requirement above arc chutes, safety clearance (applicable to IEC application)



Arcing spaces

Minimum clearances from adjacent grounded parts and non-insulated live parts.

Inside the arcing space, bare conductors and bars must be insulated with phase barriers.

For bare conductors and bars outside the arcing space, the specific mounting instructions for the different frame sizes must be observed.

For mounting instructions, see www.siemens.com/lowvoltage/product-support

Space requirement above arcing spaces according to IEC 60947-2

Molded case circuit breakers	Breaking capacity	Minimum enclosure volume m ³	A			B ≤ 690 V	C ≤ 690 V	D ≤ 690 V
			≤ 415 V	> 415 ... 690 V	> 415 ... 690 V			
Type			without/with terminal cover	without terminal cover	with terminal cover			
VL150X UL (CG frame)	Standard High Very high	0.011	35	70	35	25	25	35
VL150 UL (DG frame)	Standard High Very high	0.011	50	100	50	25	25	35
VL250 UL (FG frame)	Standard High Very high	0.015	50	100	50	25	25	35
VL400 UL (JG frame)	Standard High Very high	0.036	50	100	50	25	25	35
VL400X UL (LG frame)	Standard High Very high	0.18	50	100	50	25	25	35
VL800 UL (MG frame)	Standard High Very high	0.22	50	100	50	25	25	35
VL1200 UL (NG frame)	Standard High Very high	0.22	70	100	70	30	30	50
VL1600 UL (PG frame)	Standard High Very high	0.264	100	100	100	100	30	100

Definition of permissible safety clearances

Clearance between

- A: molded case circuit breaker and busbars (uninsulated and grounded metal); terminal cover required above 600 V AC, 500 V DC
- B: molded case circuit breaker terminal and lower panel
- C: side of the molded case circuit breaker and side panels (uninsulated and grounded metal)
- D: molded case circuit breaker and non-conductive parts with at least 3 mm thick insulation (insulator, insulated bar, painted plate)

1. General standards

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

1.1 For customers with a seat or registered office in Germany

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

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

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

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

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

2. Prices

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

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

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

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

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

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

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

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

3. Additional terms and conditions

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

Illustrations are not binding.

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

4. Export regulations

We shall not be obligated to fulfill this agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions.

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

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

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

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

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

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.

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

Appendix

Notes

Further information can be obtained from our branch offices listed at www.siemens.com/lowvoltage/contact

Interactive Catalog on DVD	<i>Catalog</i>	Process Instrumentation and Analytics	<i>Catalog</i>
Products for Automation and Drives	CA 01	<i>Digital: Field Instruments for Process Automation</i>	FI 01
Building Control		<i>Digital: Display Recorders SIREC D</i>	MP 20
GAMMA Building Control	ET G1	<i>Digital: SIPART Controllers and Software</i>	MP 31
Drive Systems		Products for Weighing Technology	WT 10
SINAMICS G130 Drive Converter Chassis Units	D 11	<i>Digital: Process Analytical Instruments</i>	AP 01
SINAMICS G150 Drive Converter Cabinet Units		<i>Digital: Process Analytics, Components for Continuous Emission Monitoring</i>	AP 11
SINAMICS GM150, SINAMICS SM150 Medium-Voltage Converters	D 12	Low-Voltage Power Distribution and Electrical Installation Technology	
<i>Digital: SINAMICS PERFECT HARMONY GH180 Medium-Voltage Air-Cooled Drives (Germany Edition)</i>	D 15.1	SENTRON · SIVACON · ALPHA	LV 10
SINAMICS G180 Converters – Compact Units, Cabinet Systems, Cabinet Units Air-Cooled and Liquid-Cooled	D 18.1	Protection, Switching, Measuring and Monitoring Devices, Switchboards and Distribution Systems	
SINAMICS S120 Chassis Format Converter Units	D 21.3	Standards-Compliant Components for Photovoltaic Plants	LV 11
SINAMICS S120 Cabinet Modules		Electrical Components for the Railway Industry	LV 12
SINAMICS S150 Converter Cabinet Units		Power Monitoring Made Simple	LV 14
SINAMICS S120 and SIMOTICS	D 21.4	Components for Industrial Control Panels according to UL Standards	LV 16
SINAMICS DCM DC Converter, Control Module	D 23.1	3WT Air Circuit Breakers up to 4000 A	LV 35
SINAMICS Inverters for Single-Axis Drives · Built-In Units	D 31.1	3VT Molded Case Circuit Breakers up to 1600 A	LV 36
SINAMICS Inverters for Single-Axis Drives · Distributed Inverters	D 31.2	<i>Digital: SIVACON System Cubicles, System Lighting and System Air-Conditioning</i>	LV 50
<i>Digital: SINAMICS S210 Servo Drive System</i>	D 32	<i>Digital: ALPHA Distribution Systems</i>	LV 51
<i>Digital: SINAMICS V90 Basic Servo Drive System</i>	D 33	ALPHA FIX Terminal Blocks	LV 52
SINAMICS G120P and SINAMICS G120P Cabinet pump, fan, compressor converters	D 35	SIVACON S4 Power Distribution Boards	LV 56
LOHER VARIO High Voltage Motors	D 83.2	SIVACON 8PS Busbar Trunking Systems	LV 70
Flameproof, Type Series 1PS4, 1PS5, 1MV4 and 1MV5 Frame Size 355 to 1000, Power Range 80 to 7100 kW		<i>Digital: DELTA Switches and Socket Outlets</i>	ET D1
<i>Digital: Three-Phase Induction Motors SIMOTICS HV, SIMOTICS TN</i>	D 84.1	Vacuum Switching Technology and Components for Medium Voltage	HG 11.01
<i>Digital: Three-Phase Induction Motors SIMOTICS HV</i>	D 84.3	Motion Control	
High Voltage Three-phase Induction Motors	D 84.9	SINUMERIK 840 Equipment for Machine Tools	NC 62
SIMOTICS HV Series A-compact PLUS		SINUMERIK 808 Equipment for Machine Tools	NC 81.1
<i>Digital: Modular Industrial Generators SIGENTICS M</i>	D 85.1	SINUMERIK 828 Equipment for Machine Tools	NC 82
Three-Phase Induction Motors SIMOTICS HV, Series H-compact	D 86.1	SIMOTION Equipment for Production Machines	PM 21
Synchronous Motors with Permanent-Magnet Technology, HT-direct	D 86.2	<i>Digital: Drive and Control Components for Cranes</i>	CR 1
DC Motors	DA 12	Power Supply	
SIMOVERT PM Modular Converter Systems	DA 45	SITOP Power supply	KT 10.1
MICROMASTER 420/430/440 Inverters	DA 51.2	Safety Integrated	
MICROMASTER 411/COMBIMASTER 411	DA 51.3	Safety Technology for Factory Automation	SI 10
<u>Low-Voltage Three-Phase-Motors</u>		SIMATIC HMI / PC-based Automation	
SIMOTOCS S-1FG1 Servo geared motors	D 41	Human Machine Interface Systems/ PC-based Automation	ST 80/ ST PC
SIMOTICS Low-Voltage Motors	D 81.1	SIMATIC Ident	
SIMOTICS FD Low-Voltage Motors	D 81.8	Industrial Identification Systems	ID 10
LOHER Low-Voltage Motors	D 83.1	SIMATIC Industrial Automation Systems	
<i>Digital: MOTOX Geared Motors</i>	D 87.1	Products for Totally Integrated Automation	ST 70
SIMOGEAR Geared Motors	MD 50.1	SIMATIC PCS 7 Process Control System System components	ST PCS 7
SIMOGEAR Electric-monorail geared motors	MD 50.8	SIMATIC PCS 7 Process Control System Technology components	ST PCS 7 T
Light-load and heavy-load applications		Add-ons for the SIMATIC PCS 7 Process Control System	ST PCS 7 AO
SIMOGEAR Gearboxes with adapter	MD 50.11	SIMATIC S7-400 advanced controller	ST 400
<u>Mechanical Driving Machines</u>		SIMATIC NET	
FLENDER Standard Couplings	MD 10.1	Industrial Communication	IK PI
FLENDER High Performance Couplings	MD 10.2	SIRIUS Industrial Controls	
FLENDER Backlash-free Couplings	MD 10.3	<i>Digital: SIRIUS Industrial Controls</i>	IC 10
FLENDER SIP Standard industrial planetary gear units	MD 31.1		

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