

Molded Case Circuit Breakers



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Product discontinuation

3VL molded case circuit breakers up to 1600 A, IEC

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Busbar device adapters and device holders from 630 A to 1600 A

4NC current transformers

3KC ATC6300 and ATC3100 transfer control devices

Residual current devices (MRCD)

For further technical product information:

Siemens Industry Online Support:
[www.siemens.com/lowvoltage/
product-support](http://www.siemens.com/lowvoltage/product-support)

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

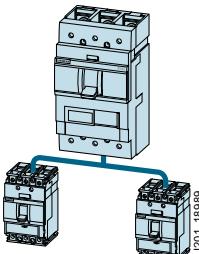
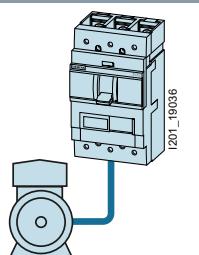
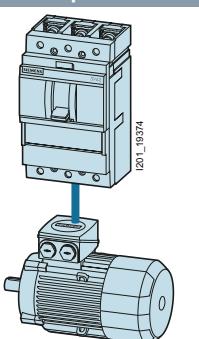
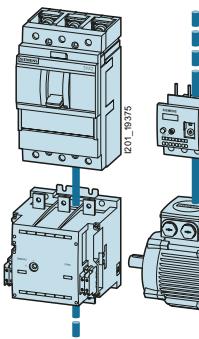
Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

Overview

2

Application	Page	3VA1	3VA2	Description	Standards
Line protection					
	2/20 ... 2/43 2/48 ... 2/77	✓	✓	The trip units for line protection are designed to provide overheat and short-circuit protection for: <ul style="list-style-type: none"> Cables Leads Non-motor loads 	IEC / EN 60947-1, IEC / EN 60947-2
					
Generator protection					
	2/54 ... 2/61 2/70 ... 2/77	--	✓	The setting values of the trip units are matched to protecting generators.	IEC / EN 60947-1, IEC / EN 60947-2
					
Motor protection					
	2/80 ... 2/83	--	✓	The overload and short-circuit releases are designed for optimized protection and direct-on-line starting of induction squirrel-cage motors. The molded case circuit breakers for motor protection have phase-failure sensitivity and a thermal image that protects the motor against overheating. The adjustable time lag class enables users to adjust the overload release to the startup conditions of the motor to be protected.	IEC / EN 60947-1, IEC / EN 60947-2, IEC / EN 60947-4-1 IE3 ready
					
Protection for starter combinations (starter protection)					
	2/44 ... 2/45 2/80 ... 2/81	✓	✓	Starter combinations consist of: Molded case circuit breaker + contactor + overload relay. The molded case circuit breaker handles short-circuit protection and the isolating function. The task of the contactor is the operational switching of the feeder. The overload relay handles overload protection that can be specially matched to the motor. The molded case circuit breaker for the starter combination is therefore equipped with an adjustable and instantaneous short-circuit release.	IEC / EN 60947-1, IEC / EN 60947-2, IEC / EN 60947-4-1 IE3 ready
					

Are you
IE3/IE4 ready?

Molded Case Circuit Breakers

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General data

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Application	Page	3VA1	3VA2	Description	Standards
Residual current device					
 [201_19890]	2/127 ... 2/130	✓	✓	Residual current protective devices afford fault protection (formerly referred to as: Protection in case of indirect contact) and supplementary protection (formerly referred to as: Protection in case of direct contact) in low-voltage systems in the event of the basic insulation failing or live parts being touched. Their task is to prevent or reduce injury to personnel or livestock, or damage to property.	IEC / EN 60947-2 (Annexes B, M)
Switch disconnectors					
 [201_19892]	2/46	✓	--	<p>Switch disconnectors are deployed:</p> <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 <p>The switch disconnectors comply with IEC / EN 60947-3.</p>	IEC / EN 60947-1, IEC / EN 60947-3

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

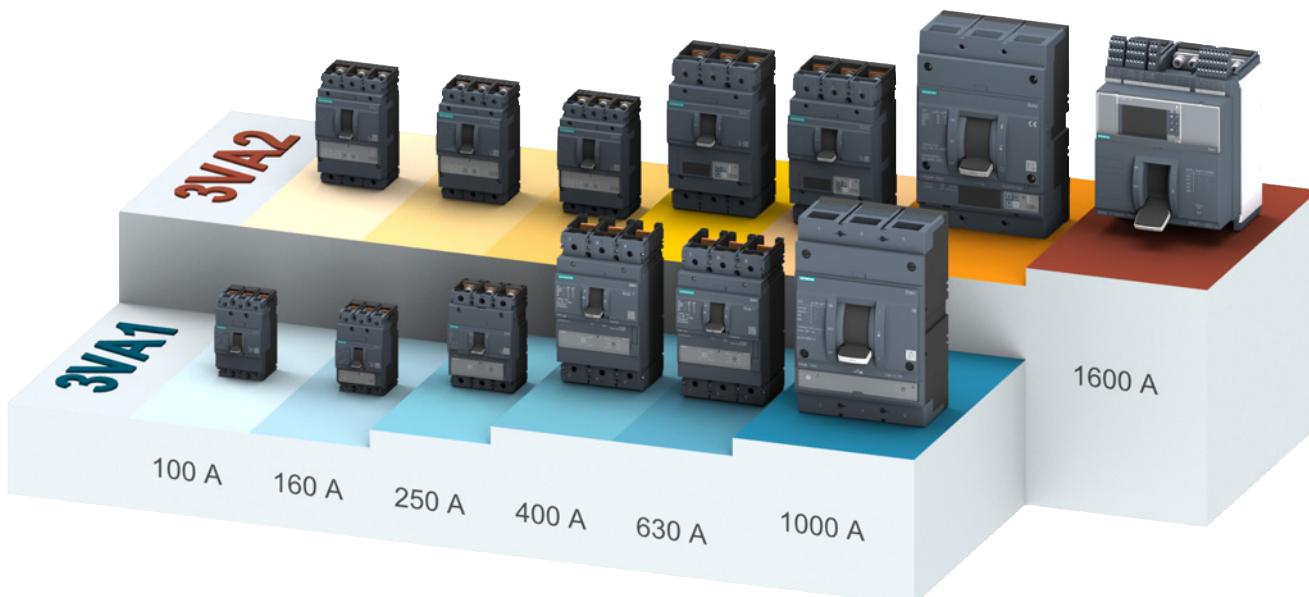
Sizes

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

The 3VA molded case circuit breakers set new standards in flexibility and the variety of modular accessories available. Standardized accessories suitable for use with several sizes of the 3VA molded case circuit breaker up to 1000 A together with quick and easy installation help to cut costs and save time.

The 3VA1 molded case circuit breakers are available in 1 to 4-pole versions (3VA1 160 A) or in 3 and 4-pole versions (3VA1 100 A to 1000 A). **NEW** The 3VA2 molded case circuit breakers are available in 3 and 4-pole versions.

The circuit breakers are available with rated operational currents ranging from 16 A to 1600 A and rated voltages up to 690 V AC, depending on the range and frame size.



Integrated system

When it comes to operation, functionality and installation, the 3VA range of molded case circuit breakers is a fully integrated system from 100 A to 1000 A. This principle is embodied in the basic units and in all internal and external accessories.

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

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

3VA1 moldable case circuit breakers

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

Features

The key features of the 3VA1 range are:

- Compact design
- Depending on size: 1-pole to 4-pole versions
- Depending on size: Breaking capacity of
 - 16 kA ... 70 kA at 415 V (up to 630 A), 3 or 4-pole breakers
 - 55 kA ... 110 kA (at 1000 A), 3 or 4-pole breakers and
 - 36 kA at 240 V, 1-pole breakers

- Fixed-mounted, plug-in version (depending on size)
- Thermal-magnetic trip units
- AC/DC applications
- No derating up to +50 °C
- Modular and easy-to-fit internal accessories with diverse functions
- Uniform accessories platform across all 3VA moldable case circuit breakers

Compact dimensions

Thanks to a mounting depth of 70 mm and a cover size of 45 mm, the 3VA1 moldable case circuit breakers of sizes 100 A, 160 A and 250 A are predestined for protecting cables and lines in the plant area, especially for the electrical installation area. For these applications, there is also a wide range of accessories available such as adapters for installation on DIN rails, as well as laterally mountable residual current devices (RCD310 (up to 160 A) and RCD510), and laterally mountable motor operators (MO310).

Thermal-magnetic trip unit

A thermal-magnetic principle trip unit is the basic trip unit for providing overload and short-circuit protection. This has been developed for implementing economical, cost-efficient installations up to 1000 A. It is suitable for use in three-phase networks, AC networks, 400 Hz applications, and with DC currents.

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

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3VA2 molded case circuit breakers up to size 1000 A

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

This range is designed for applications with increased requirements:

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

Features

- Compact dimensions
- 3 and 4-pole versions
- 6 sizes (up to 1000 A)
- Four breaking capacity classes from 55 kA ... 150 kA (depending on size)
- Fixed-mounting, plug-in technology, draw-out technology
- Depending on size: Selective protection response in rated operational current interval 1 : 2.5
- Electronic Trip Units
- Communication capability for ETUs of the 5-series and 8-series
- Depending on the ETU: integrated metering function for ETUs of the 8-series
- AC applications
- Modular and easy-to-fit internal accessories with diverse functions
- Uniform accessories platform across all 3VA molded case circuit breakers

Compact dimensions with function expansions

In addition to its expanded functionality, the 3VA2 molded case circuit breaker also comes with compact dimensions for fixed mounting, as a plug-in version (up to 630 A) and a draw-out version (up to 630 A).

A cover size of 70 mm (up to 630 A) for the door cut-out and a complete selection of breaking capacity classes from 55 kA to 150 kA (depending on size) at 415 V AC provide the necessary flexibility for planning.

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

- Extremely high breaking capacity
- Extremely good selectivity

Selective contact system (up to 630 A)

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

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

Electronic Trip Units (ETUs)

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

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

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

3VA27 molded case circuit breakers, size 1600 A NEW

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

They have been designed for the following application scenarios:

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

Low space requirements

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

Reduced complexity

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

Modular design

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

Retrofittable modules for Electronic Trip Units

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

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

Communication/metering functions

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

Note:

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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

3VA1 up to 1000 A

2



Type	3VA10	3VA11	3VA12	3VA13
Number of poles	3, 4	1	2	3, 4

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

Electrical characteristics according to IEC 60947-2

Size	100 A	160 A	160 A	160 A
Rated operational current I_n at 50 °C ambient temperature	A 16 ... 100	16 ... 160	16 ... 160	16 ... 160
Rated operational voltage U_e 50/60 Hz AC	V 690	415	415	690
Rated insulation voltage U_i	V 800	500	500	800
Rated impulse withstand voltage U_{imp}	kV 8	8	8	8
Use in IT networks	✓	✓	✓	✓
Frequency	Hz 0 ... 400	0 ... 400	0 ... 400	0 ... 400

Breaking capacity	(B)	(N)	(S)	(N)	(S)	(M)	(N)	(S)	(M)	(N)	(S)	(M)	(H)
Rated ultimate short-circuit breaking capacity I_{cu} rms value, according to IEC 60947-2													
220 - 240 V AC / 50/60 Hz	kA 25	36	55	25	36	55	36	55	85	36	55	85	100
380 - 415 V AC / 50/60 Hz	kA 16	25	36	5	6	6	25	36	55	25	36	55	70
440 V AC / 50/60 Hz	kA 8	16	25	--	--	--	--	--	--	16	25	36	55 ¹⁾
500 V AC / 50/60 Hz	kA 5	5	7	--	--	--	--	--	--	7	7	10	10
690 V AC / 50/60 Hz	kA 5	5	7	--	--	--	--	--	--	7	7	10	10
125 V DC (1 switching pole)	kA --	--	--	16	25	30	16	25	30	--	--	--	--
250 V DC (2 switching poles)	kA 25	36	55	--	--	--	36	55	85	36	55	85	100
500 V DC (3 switching poles)	kA 25	36	55	--	--	--	--	--	--	36	55	85	100
600 V DC (4 switching poles)	kA 8	16	25	--	--	--	--	--	--	16	25	36	55
Rated service short-circuit breaking capacity I_{cs} rms value, according to IEC 60947-2													
220 - 240 V AC / 50/60 Hz	kA 25	36	55	25	36	55	36	55	85	36	55	85	100
380 - 415 V AC / 50/60 Hz	kA 16	25	36	5	6	6	25	36	55	25	36	55	70
440 V AC / 50/60 Hz	kA 8	16	25	--	--	--	--	--	--	16	25	36	40 ¹⁾
500 V AC / 50/60 Hz	kA 5	5	5	--	--	--	--	--	--	5	5	5	5
690 V AC / 50/60 Hz	kA 5	5	5	--	--	--	--	--	--	5	5	5	5
125 V DC (1 switching pole)	kA --	--	--	16	25	30	16	25	30	--	--	--	--
250 V DC (2 switching poles)	kA 25	36	55	--	--	--	36	55	85	36	55	85	100
500 V DC (3 switching poles)	kA 25	36	55	--	--	--	--	--	--	36	55	85	100
600 V DC (4 switching poles)	kA 8	16	25	--	--	--	--	--	--	16	25	36	55

✓ Available -- Not available

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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

3VA1 up to 1000 A



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

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

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

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

* On request

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)
Rated ultimate short-circuit breaking capacity I_{cu}												
rms value, according to IEC 60947-2												
220 - 240 V AC / 50/60 Hz	kA 85	110	150	200	85	110	150	200	85	110	150	200
380 - 415 V AC / 50/60 Hz	kA 55	85	110	150	55	85	110	150	55	85	110	150
440 V AC / 50/60 Hz	kA 55	85	110	150	55	85	110	150	55	85	110	150
500 V AC / 50/60 Hz	kA 36	55	85	100	36	55	85	100	36	55	85	100
690 V AC / 50/60 Hz	kA 2	2	2	25	2.5	2.5	2.5	25	3	3	3	25
125 V DC (1 switching pole)	kA --	--	--	--	--	--	--	--	--	--	--	--
250 V DC (2 switching poles)	kA --	--	--	--	--	--	--	--	--	--	--	--
500 V DC (3 switching poles)	kA --	--	--	--	--	--	--	--	--	--	--	--
600 V DC (4 switching poles)	kA --	--	--	--	--	--	--	--	--	--	--	--

Rated service short-circuit breaking capacity I_{cs}	(M)	(H)	(C)	(L)	(M)	(H)	(C)	(L)	(M)	(H)	(C)	(L)
rms value, according to IEC 60947-2												
220 - 240 V AC / 50/60 Hz	kA 85	110	150	200	85	110	150	200	85	110	150	200
380 - 415 V AC / 50/60 Hz	kA 55	85	110	150	55	85	110	150	55	85	110	150
440 V AC / 50/60 Hz	kA 55	85	110	150	55	85	110	150	55	85	110	150
500 V AC / 50/60 Hz	kA 36	55	85	100	36	55	85	100	36	55	85	100
690 V AC / 50/60 Hz	kA 2	2	2	18	2.5	2.5	2.5	18	3	3	3	18
125 V DC (1 switching pole)	kA --	--	--	--	--	--	--	--	--	--	--	--
250 V DC (2 switching poles)	kA --	--	--	--	--	--	--	--	--	--	--	--
500 V DC (3 switching poles)	kA --	--	--	--	--	--	--	--	--	--	--	--
600 V DC (4 switching poles)	kA --	--	--	--	--	--	--	--	--	--	--	--

✓ Available -- Not available

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

3VA2 up to 630 A

3VA2 1000 A

3VA2 1600 A **NEW**

3VA23

3VA24

3VA25

3VA27

3, 4

3, 4

3, 4

3, 4

3VA2 for line protection, selectivity applications

400 A

630 A

1000 A

1600 A

250 ... 400

400 ... 630

630 ... 1000

800 ... 1600

690

690

690

690

800

800

800

1000

8

8

8

8

✓

✓

✓

✓

50 ... 60

50 ... 60

50 ... 60

50 ... 60

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

85

85

85

100

110

85

110

150

150

110

150

200

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55

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* On request

1) Valid for I_{N} 400, 500 A;
however for I_{N} 630 A: $I_{\text{CS}} = 65 \text{ kA}$

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

3VA1 up to 1000 A

2



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

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

Service life (make-break operations)

Mechanical ¹⁾		20000	20000	20000	20000
Electrical	380 ... 415 V	8000	8000	8000	8000
	$I_n/2$	16000	16000	16000	16000
	690 V	8000	8000	8000	8000
Trip units	FTFM	TM210	✓	✓	✓
	ATFM	TM220	--	--	✓
	ATAM	TM240	--	--	✓

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

Rated operational current I_n at 50 °C ambient temperature	A	--	--	--	32 ... 125
Service life (make-break operations)					
Mechanical ¹⁾		--	--	--	20000
Electrical	380 ... 415 V	--	--	--	8000
Trip units	AM	TM120M	--	--	✓

Switch disconnectors (IEC 60947-3)

Electrical characteristics according to IEC 60947-3

Number of poles		--	--	--	3, 4
Rated uninterrupted current I_u at 50 °C ambient temperature	A	--	--	--	63 ... 160
Rated operational voltage U_e 50/60 Hz AC	V	--	--	--	690
Rated operational voltage U_e DC	V	--	--	--	500 (3p)/ 600 (4p)
Rated conditional short-circuit current I_q with upstream 3VA1 circuit breaker	kA	--	--	--	70 kA at 415 V
Permissible rated short-time withstand current I_{cw} 1 s	kA	--	--	--	2

Dimensions

	mm	76.2 (3p)/ 101.6 (4p)	25.4	50.8	76.2 (3p)/ 101.6 (4p)
	mm	130	130	130	130
	mm	70	70	70	70
	mm	88	88	88	88

Weight 1-pole nut keeper kit	kg	--	0.35	--	--
2-pole nut keeper kit	kg	--	--	0.60	--
3-pole nut keeper kit	kg	0.90	--	--	0.90
4-pole nut keeper kit	kg	1.15	--	--	1.15

General information

Utilization category according to IEC 60947-2	A	A	A	A
---	---	---	---	---

Power and infeed direction	Top and bottom
----------------------------	----------------

Isolating features according to IEC 60947	✓	✓	✓	✓
---	---	---	---	---

✓ Available

-- Not available

¹⁾ Operating cycles NO-NC

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

3VA1 up to 1000 A

2



3VA12

3VA13 NEW

3VA14 NEW

3VA15 NEW

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

20000	15000	15000	10000
8000	6000	4000	5000
	12000	12000	
5000	6000	On req.	
--	--	--	--
--	--	--	--
✓	✓	✓	✓

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

160, 200	250	400 ... 500	630 ... 800
20000	15000	15000	10000
8000	6000	4000	4000

Switch disconnectors (IEC 60947-3)

3, 4	3, 4	--	--
250	400	--	--
690	690	--	--
500 (3p)/ 600 (4p)	500 (3p)/ 600 (4p)	500 (3p)/ 600 (4p)	--
70 kA at 415 V	On req.	--	--
3	4.8	--	--

Dimensions

105 (3p)/ 140 (4p)	138 (3p)/184 (4p)	138 (3p)/184 (4p)	210 (3p)/280 (4p)
158	248	248	320
70	110	110	120
88	137	137	253
--	--	--	--
--	--	--	--
1.8	4.3	4.3	11.35
2.3	4.8	4.8	15.42

General information

A	A	A/B ¹⁾	A
	Top and bottom	Top and bottom	Top and bottom

✓

✓

✓

✓

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

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)

Mechanical ¹⁾		20000	20000	20000
Electrical	380 ... 415 V	12000	12000	10000
	$I_n/2$	20000	30000	15000
	690	8000	8000	5000
Trip units	LI	ETU320	✓	✓
	LIG	ETU330	✓	✓
	ELISA LI	ETU340	--	✓
	LSI	ETU350	✓	✓
	LSI	ETU550/ETU850	✓	✓
	LSIG	ETU560/ETU860	✓	✓
	LSI	ETU650	--	--
	LSIG	ETU360	--	--
	LSIG	ETU660	--	--

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

Rated operational current I_n at 50 °C ambient temperature	A	--	25 ... 100	160 ... 200
			20000	20000
Service life (make-break operations)				
Mechanical ¹⁾		--	20000	20000
Electrical	380 ... 415 V	--	12000	10000
Trip units	I	ETU310M	--	✓
	LSI	ETU350M	--	✓
	LSI	ETU550M	--	✓
	LSIG	ETU860M	--	✓
	LI	ETU320	--	--
	LSI	ETU350	--	--
	LSIG	ETU360	--	--
	LSIG	ETU650	--	--
	LSIG	ETU660	--	--

Dimensions

	A	mm	105 (3p) / 140 (4p)	105 (3p) / 140 (4p)	105 (3p) / 140 (4p)
	B	mm	181	181	181
	C	mm	86	86	86
	D	mm	107	107	107

Weight 1-pole nut keeper kit

kg -- -- --

2-pole nut keeper kit

kg -- -- --

3-pole nut keeper kit

kg 2.29 2.29 2.41

4-pole nut keeper kit

kg 2.94 2.94 3.09

General information

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

✓ Available

-- Not available

¹⁾ Operating cycles NO-NC

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

3VA2 up to 630 A

3VA2 1000 A

3VA2 1600 A **NEW**

3VA23

3VA24

3VA25

3VA27

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

15000	15000	10000	10000
6000	4000	5000	2000
15000	8000	--	--
5000	4000	1000	--
✓	✓	✓	✓
✓	✓	✓	--
✓	✓	✓	--
✓	✓	✓	✓
✓	✓	✓	--
✓	✓	✓	--
--	--	--	✓
--	--	--	✓
--	--	--	✓

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

250	400 ... 500	630 ... 800	800 ... 1600
15000	15000	10000	10000
6000	4000	4000	2000
✓	✓	--	--
✓	✓	✓	--
✓	✓	✓	--
✓	✓	✓	--
--	--	--	✓
--	--	--	✓
--	--	--	✓
--	--	--	✓
--	--	--	✓

Dimensions

138 (3p)/184 (4p)	138 (3p)/184 (4p)	210 (3p)/280 (4p)	210 (3p)/280 (4p)
248	248	320	291
110	110	120	171 (toggle); 183 (spring charging motor)
137	137	253	225
--	--	--	--
--	--	--	--
4.3	4.3	11.35	14
4.8	4.8	15.42	16

General information

IEC 60947-2, -3, -4	IEC 60947-2, -3, -4	IEC 60947-2	IEC 60947-2, -3
A	A/B ¹⁾	A	B
Top and bottom	Top and bottom	Top and bottom	Top and bottom
✓	✓	✓	

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

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A

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 moldable case circuit breakers up to 1000 A											
	3VA1						3VA2					
	100	160	250	400	630	1000	100	160	250	400	630	1000
Auxiliary switches and alarm switches												
Auxiliary releases												
Connection technology												
Plug-in technology												
Draw-out technology												
Front mounted rotary operator												
Door mounted rotary operator												
Side wall mounted rotary operator												
Motor operator MO310 (mounted on the side)												
Motor operator MO320 (mounted on the front)												
Motor operator with SEO520 stored energy operator												
Locking, blocking and interlocking												
Residual current device (mounted on the side)												
Residual current device (mounted underneath)												
Communications interface												
EFB300												
TD300 and TD500												
Cover frame												
DIN rail adapter												
Busbar adapter												

Front terminals

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

Connection technology available from/installed at the factory

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

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

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

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

✓ Available

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

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

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

Note:

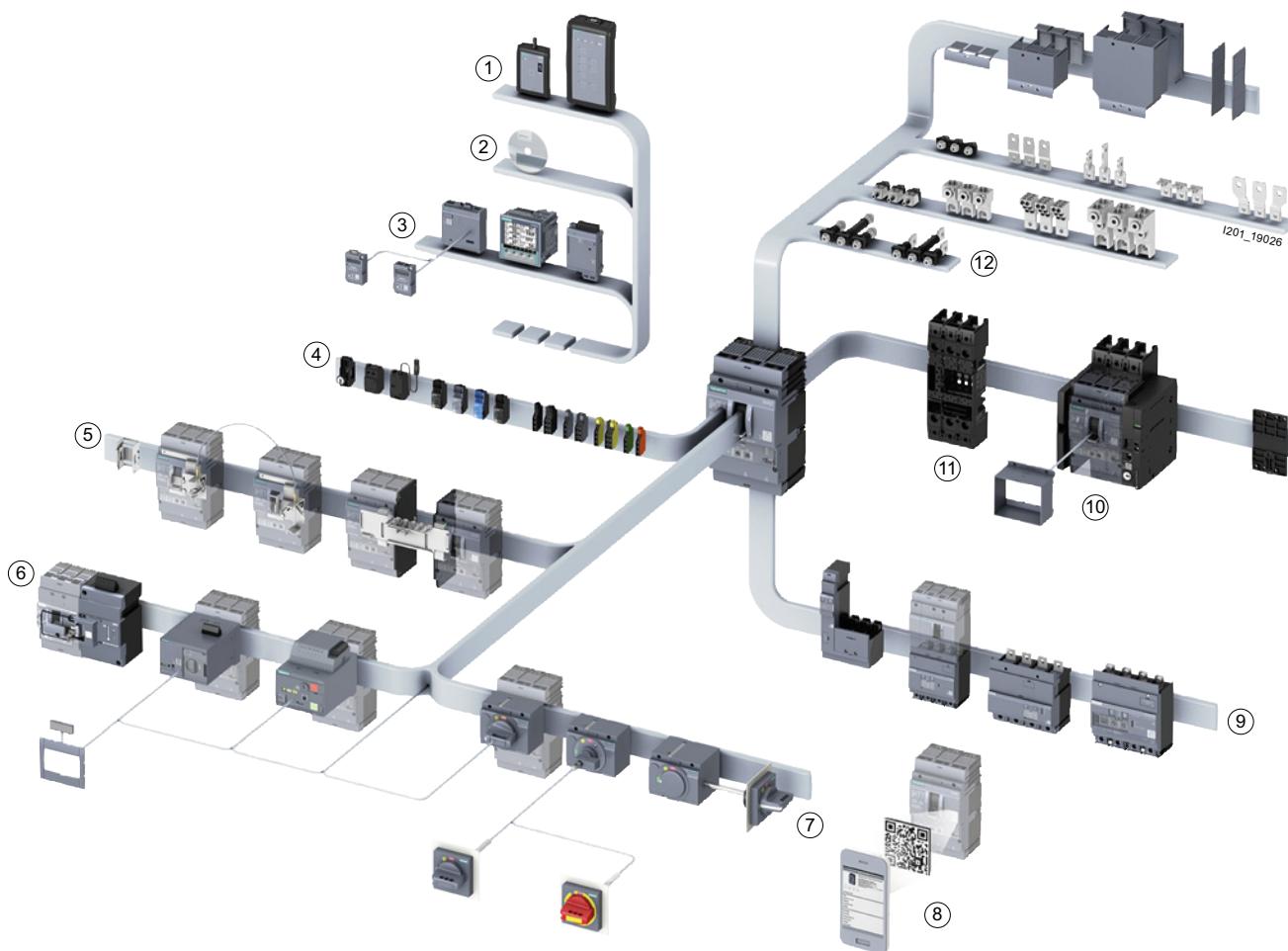
For information about the 3VA27 molded case circuit breaker, see from page 2/14 onwards.

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A

General data

2



① Test devices ([page 2/137](#))

② powerconfig commissioning and service software
([page 2/134](#), Chapter "Measuring Devices and Power Monitoring" and Chapter "Software")

③ Communication ([pages 2/132 to 2/137](#))

④ Internal accessories ([pages 2/84 to 2/92](#))

⑤ Accessories for locking, blocking and interlocking ([pages 2/139 to 2/142](#))

⑥ Motor operators ([page 2/100](#))

⑦ Manual operators ([pages 2/93 to 2/99](#))

⑧ Knowledge Manager ([page 2/15](#))

⑨ Residual current devices ([pages 2/127 to 2/130](#))

⑩ Draw-out technology ([pages 2/122 to 2/126](#))

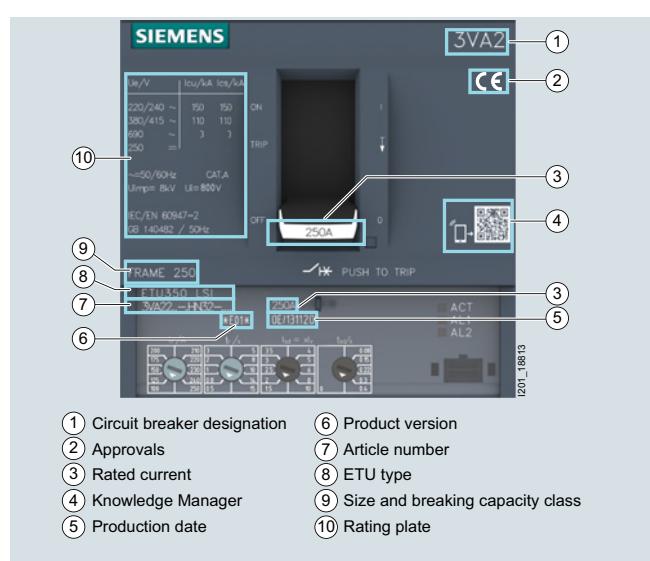
⑪ Plug-in technology ([pages 2/122 to 2/126](#))

Knowledge Manager

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

Siemens provides the app free of charge.

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



Front: Inscription

Molded Case Circuit Breakers

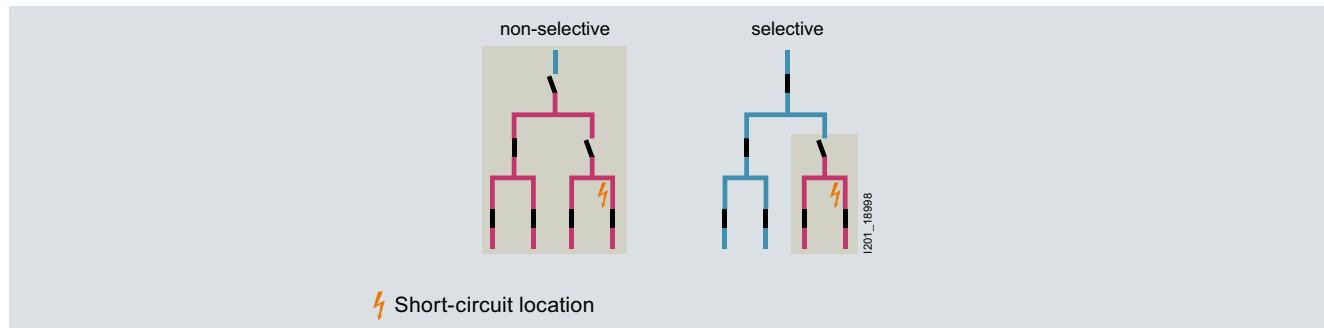
3VA Molded Case Circuit Breakers up to 1000 A

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:

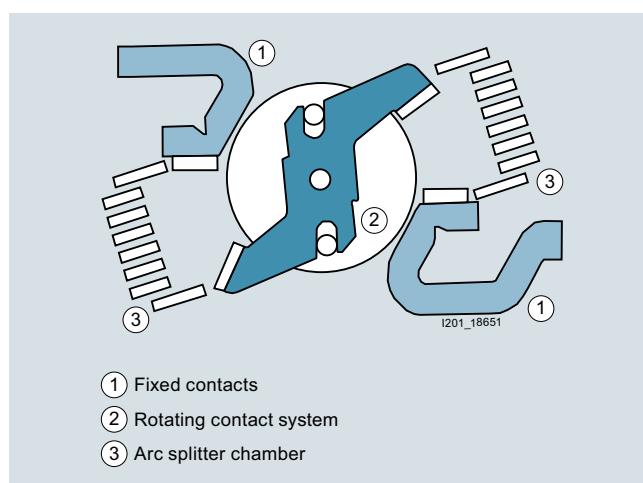
- System-wide, high selectivity with a rated operational current interval of 1 : 2.5 up to the miniature circuit breaker
- Selectivity in combination with high current limiting and high breaking capacity
- Cost-effective design / configuring of selective power distribution systems

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} .



Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A

General data

2

Standards and guidelines

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

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

Certificates

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

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

Operating conditions

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

IE3 ready

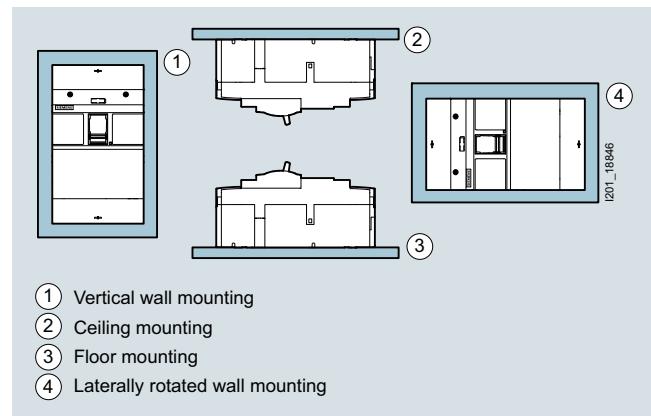
As from January 2015, the energy-efficiency class IE3 will be mandatory, with a few exceptions only, for three-phase asynchronous motors. This will have an effect on motors, low-voltage power distribution and electrical installation technology, as well as industrial controls.

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

Are you
IE3/IE4 ready?



Permissible mounting positions



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>



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



Molded Case Circuit Breakers

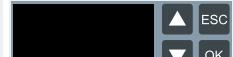
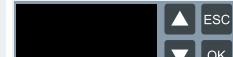
3VA Molded Case Circuit Breakers up to 1000 A

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	 I201_19035	 I201_18828	 I201_18480	 I201_18482
Line protection: TM210, TM220, TM240 Starter protection: TM120M				
Line protection: ETU320, ETU330, ETU340, ETU350 Starter protection: ETU310M Motor protection: ETU350M				
Line protection: ETU550, ETU560 Motor protection: ETU550M				
Line protection: ETU850, ETU860 Motor protection: ETU860M				
Integrated functions				
Parameterizing	 Setting and reading the parameters in A	 Setting and reading the parameters in A and s	 • Setting and reading the parameters via display and communication • Fine setting of the parameters • Reading the measured values	 • Setting and reading the parameters via display and communication • Fine setting of the parameters • Reading the measured values
Status display	--	 Indicating the ETU status via LEDs	 Indicating the ETU status via LEDs	 Indicating the ETU status via LEDs
Interface	--	 Interface for test devices	 Interface for test devices	 Interface for test devices
Metering function	--	--	--	Metering function integrated
Optional expansions				
	--	--	 24 V module for continuous power supply (also without primary current through the molded case circuit breaker)	 24 V module for continuous power supply (also without primary current through the molded case circuit breaker)
	--	 EFB300 external function box for connecting to the ETU	 EFB300 external function box for connecting to the ETU	 EFB300 external function box for connecting to the ETU
	--	--	 COM060 communication module	 COM060 communication module
	--	--	 COM800/COM100 breaker data server Interface to • PROFIBUS • PROFINET • Modbus RTU • Ethernet (Modbus TCP)	 COM800/COM100 breaker data server Interface to • PROFIBUS • PROFINET • Modbus RTU • Ethernet (Modbus TCP)
	--	--	 DSP800 external display for installing in the cubicle door	 DSP800 external display for installing in the cubicle door
	--	 TD300/TD500 test device	 TD300/TD500 test device	 TD300/TD500 test device

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A

General data

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

	TM120M AM	TM210 FTFM	TM220 ATFM	TM240 ATAM
Protection				
Starter protection	✓	--	--	--
Line protection	--	✓	✓	✓
Version available with				
1-pole and 2-pole breakers	--	✓	--	--
3-pole breaker	✓	✓	✓	✓
4-pole breaker	--	✓	✓	✓
Available protection parameters				
I_r adjustable	--	--	✓	✓
I_i adjustable	✓	--	--	✓
I_r fixed	--	✓	--	--
I_i fixed	--	✓	✓	--
I_{N1}	--	✓	✓	✓

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

Protection functions of the 3VA2 with electronic trip unit

	ETU310M I	ETU320 LI	ETU330 LIG	ETU340 ELISA®	ETU350 LSI	ETU350M LSI	ETU550 LSI	ETU550M LSI	ETU560 LSIG	ETU850 LSI	ETU860 LSIG	ETU860M LSIG
Protection												
Starter protection	✓	--	--	--	--	--	--	--	--	--	--	--
Motor protection	--	--	--	--	--	✓	--	✓	--	--	--	✓
Line protection	--	✓	✓	✓	✓	--	✓	--	✓	✓	✓	--
Generator protection	--	✓	✓	--	✓	--	✓	--	✓	✓	✓	--
Version available with												
3-pole without external neutral conductor transformer	✓	✓	✓	✓	✓	✓	--	✓	--	--	--	✓
3-pole with external neutral conductor transformer	--	--	--	--	--	--	✓	--	✓	✓	✓	--
4-pole with protected neutral conductor transformer	--	✓	✓	✓	✓	--	✓	--	✓	✓	✓	--
Available protection parameters												
Characteristic in L range	I^2t	I^2t	I^2t	I^4t	I^2t	I^2t	I^2t	I^2t	I^2t	I^2t	I^2t	I^2t
I_r	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
t_r at $6 \times I_r$	--	✓	✓	--	✓	--	✓	--	✓	✓	✓	--
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 1000 A, IEC

Line protection

Selection and ordering data

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

Operating current of the instantaneous short-circuit protection "I"
 I_i

SD

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

N

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

Basic price per PU

A A A

d

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

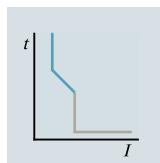


Line protection, 1-pole, TM210 FTFM

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

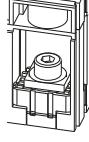
Connection with box terminal

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



Connection with nut keeper kit

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



Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

2

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current I_h	SD	I_{cu} up to 36 kA at 240 V, standard breaking capacity S See "Overview", p. 2/6 and 2/7	(S)	SD	I_{cu} up to 55 kA at 240 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	(M)
		Article No. www.siemens.com/ product ?Article No.			Article No. www.siemens.com/ product ?Article No.	
A	d			d		

Line protection, 1-pole, TM210 FTFM

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

Connection with box terminal

16	3VA1196-4ED16-0AA0	3VA1196-5ED16-0AA0
20	3VA1120-4ED16-0AA0	3VA1120-5ED16-0AA0
25	3VA1125-4ED16-0AA0	3VA1125-5ED16-0AA0
32	3VA1132-4ED16-0AA0	3VA1132-5ED16-0AA0
40	3VA1140-4ED16-0AA0	3VA1140-5ED16-0AA0
50	3VA1150-4ED16-0AA0	3VA1150-5ED16-0AA0
63	3VA1163-4ED16-0AA0	3VA1163-5ED16-0AA0
80	3VA1180-4ED16-0AA0	3VA1180-5ED16-0AA0
100	3VA1110-4ED16-0AA0	3VA1110-5ED16-0AA0
125	3VA1112-4ED16-0AA0	3VA1112-5ED16-0AA0
160	3VA1116-4ED16-0AA0	3VA1116-5ED16-0AA0

Connection with nut keeper kit

16	3VA1196-4ED12-0AA0	3VA1196-5ED12-0AA0
20	3VA1120-4ED12-0AA0	3VA1120-5ED12-0AA0
25	3VA1125-4ED12-0AA0	3VA1125-5ED12-0AA0
32	3VA1132-4ED12-0AA0	3VA1132-5ED12-0AA0
40	3VA1140-4ED12-0AA0	3VA1140-5ED12-0AA0
50	3VA1150-4ED12-0AA0	3VA1150-5ED12-0AA0
63	3VA1163-4ED12-0AA0	3VA1163-5ED12-0AA0
80	3VA1180-4ED12-0AA0	3VA1180-5ED12-0AA0
100	3VA1110-4ED12-0AA0	3VA1110-5ED12-0AA0
125	3VA1112-4ED12-0AA0	3VA1112-5ED12-0AA0
160	3VA1116-4ED12-0AA0	3VA1116-5ED12-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

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



Article No.
www.siemens.com/product

Basic price per PU

A

A

A

d

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



Line protection, 2-pole, TM210 FTFM

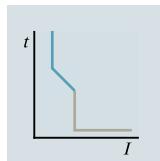
With fixed overload protection I_r and fixed short-circuit protection I_i

Connection with box terminal

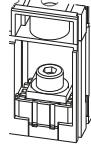


3VA11

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



Connection with nut keeper kit



3VA11

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

Molded Case Circuit Breakers

3VA1 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 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	Article No. www.siemens.com/ product ?Article No.	Basic price per PU	Article No. www.siemens.com/ product ?Article No.	Basic price per PU
d		d		

2

Line protection, 2-pole, TM210 FTFM

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

Connection with box terminal

16	3VA1196-4ED26-0AA0	3VA1196-5ED26-0AA0
20	3VA1120-4ED26-0AA0	3VA1120-5ED26-0AA0
25	3VA1125-4ED26-0AA0	3VA1125-5ED26-0AA0
32	3VA1132-4ED26-0AA0	3VA1132-5ED26-0AA0
40	3VA1140-4ED26-0AA0	3VA1140-5ED26-0AA0
50	3VA1150-4ED26-0AA0	3VA1150-5ED26-0AA0
63	3VA1163-4ED26-0AA0	3VA1163-5ED26-0AA0
80	3VA1180-4ED26-0AA0	3VA1180-5ED26-0AA0
100	3VA1110-4ED26-0AA0	3VA1110-5ED26-0AA0
125	3VA1112-4ED26-0AA0	3VA1112-5ED26-0AA0
160	3VA1116-4ED26-0AA0	3VA1116-5ED26-0AA0

Connection with nut keeper kit

16	3VA1196-4ED22-0AA0	3VA1196-5ED22-0AA0
20	3VA1120-4ED22-0AA0	3VA1120-5ED22-0AA0
25	3VA1125-4ED22-0AA0	3VA1125-5ED22-0AA0
32	3VA1132-4ED22-0AA0	3VA1132-5ED22-0AA0
40	3VA1140-4ED22-0AA0	3VA1140-5ED22-0AA0
50	3VA1150-4ED22-0AA0	3VA1150-5ED22-0AA0
63	3VA1163-4ED22-0AA0	3VA1163-5ED22-0AA0
80	3VA1180-4ED22-0AA0	3VA1180-5ED22-0AA0
100	3VA1110-4ED22-0AA0	3VA1110-5ED22-0AA0
125	3VA1112-4ED22-0AA0	3VA1112-5ED22-0AA0
160	3VA1116-4ED22-0AA0	3VA1116-5ED22-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current
 I_n

A

Current setting of the inverse-time delayed overload protection "L"
 I_r

A

Operating current of the instantaneous short-circuit protection "I"
 I_i

A

SD

I_{cu} up to 16 kA at 415 V,
very low breaking capacity B
See "Overview", p. 2/6 and 2/7

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

Basic price per PU

d

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

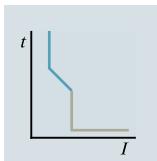


Line protection, TM210 FTFM

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

Connection with box terminal

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



Connection with nut keeper kit

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

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current I_h	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

2

Line protection, TM210 FTFM

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

Connection with box terminal

16	3VA1096-3ED36-0AA0	3VA1096-4ED36-0AA0
20	3VA1020-3ED36-0AA0	3VA1020-4ED36-0AA0
25	3VA1025-3ED36-0AA0	3VA1025-4ED36-0AA0
32	3VA1032-3ED36-0AA0	3VA1032-4ED36-0AA0
40	3VA1040-3ED36-0AA0	3VA1040-4ED36-0AA0
50	3VA1050-3ED36-0AA0	3VA1050-4ED36-0AA0
63	3VA1063-3ED36-0AA0	3VA1063-4ED36-0AA0
80	3VA1080-3ED36-0AA0	3VA1080-4ED36-0AA0
100	3VA1010-3ED36-0AA0	3VA1010-4ED36-0AA0

Connection with nut keeper kit

16	3VA1096-3ED32-0AA0	3VA1096-4ED32-0AA0
20	3VA1020-3ED32-0AA0	3VA1020-4ED32-0AA0
25	3VA1025-3ED32-0AA0	3VA1025-4ED32-0AA0
32	3VA1032-3ED32-0AA0	3VA1032-4ED32-0AA0
40	3VA1040-3ED32-0AA0	3VA1040-4ED32-0AA0
50	3VA1050-3ED32-0AA0	3VA1050-4ED32-0AA0
63	3VA1063-3ED32-0AA0	3VA1063-4ED32-0AA0
80	3VA1080-3ED32-0AA0	3VA1080-4ED32-0AA0
100	3VA1010-3ED32-0AA0	3VA1010-4ED32-0AA0

Molded Case Circuit Breakers

3VA1 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 25 kA at 415 V, low breaking capacity N
See "Overview", p. 2/6 and 2/7

N

Article No.
www.siemens.com/product

Basic price per PU

A

A

A

d

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



I201_19027

Line protection, TM210 FTFM

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

Connection with box terminal



3VA11

16

20

25

32

40

50

63

80

100

125

160

16

20

25

32

40

50

63

80

100

125

160

16

20

25

32

40

50

63

80

100

125

160

11 ... 16

14 ... 20

18 ... 25

22 ... 32

28 ... 40

35 ... 50

44 ... 63

56 ... 80

70 ... 100

88 ... 125

112 ... 160

320

320

320

320

400

500

630

800

1000

1250

1600

1000

1250

1600

3VA1196-3ED36-0AA0

3VA1120-3ED36-0AA0

3VA1125-3ED36-0AA0

3VA1132-3ED36-0AA0

3VA1140-3ED36-0AA0

3VA1150-3ED36-0AA0

3VA1163-3ED36-0AA0

3VA1180-3ED36-0AA0

3VA1110-3ED36-0AA0

3VA1112-3ED36-0AA0

3VA1116-3ED36-0AA0

3VA1196-3ED32-0AA0

3VA1120-3ED32-0AA0

3VA1125-3ED32-0AA0

3VA1132-3ED32-0AA0

3VA1140-3ED32-0AA0

3VA1150-3ED32-0AA0

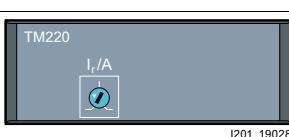
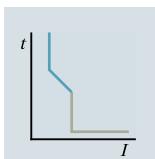
3VA1163-3ED32-0AA0

3VA1180-3ED32-0AA0

3VA1110-3ED32-0AA0

3VA1112-3ED32-0AA0

3VA1116-3ED32-0AA0



Line protection, TM220 ATFPM

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

Connection with box terminal

3VA11

16

20

25

32

40

50

63

80

100

125

160

11 ... 16

14 ... 20

18 ... 25

22 ... 32

28 ... 40

35 ... 50

44 ... 63

56 ... 80

70 ... 100

88 ... 125

112 ... 160

320

320

320

320

400

500

630

800

1000

1250

1600

1000

1250

1600

3VA1196-3EE36-0AA0

3VA1120-3EE36-0AA0

3VA1125-3EE36-0AA0

3VA1132-3EE36-0AA0

3VA1140-3EE36-0AA0

3VA1150-3EE36-0AA0

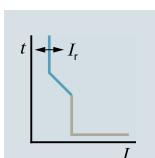
3VA1163-3EE36-0AA0

3VA1180-3EE36-0AA0

3VA1110-3EE36-0AA0

3VA1112-3EE36-0AA0

3VA1116-3EE36-0AA0



Connection with nut keeper kit

3VA11

16

20

25

32

40

50

63

80

100

125

160

11 ... 16

14 ... 20

18 ... 25

22 ... 32

28 ... 40

35 ... 50

44 ... 63

56 ... 80

70 ... 100

88 ... 125

112 ... 160

320

320

320

320

400

500

630

800

1000

1250

1600

1000

1250

1600

3VA1196-3EE32-0AA0

3VA1120-3EE32-0AA0

3VA1125-3EE32-0AA0

3VA1132-3EE32-0AA0

3VA1140-3EE32-0AA0

3VA1150-3EE32-0AA0

3VA1163-3EE32-0AA0

3VA1180-3EE32-0AA0

3VA1110-3EE32-0AA0

3VA1112-3EE32-0AA0

3VA1116-3EE32-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current I_h	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)
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

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

Connection with box terminal

16	3VA1196-4ED36-0AA0	3VA1196-5ED36-0AA0	3VA1196-6ED36-0AA0
20	3VA1120-4ED36-0AA0	3VA1120-5ED36-0AA0	3VA1120-6ED36-0AA0
25	3VA1125-4ED36-0AA0	3VA1125-5ED36-0AA0	3VA1125-6ED36-0AA0
32	3VA1132-4ED36-0AA0	3VA1132-5ED36-0AA0	3VA1132-6ED36-0AA0
40	3VA1140-4ED36-0AA0	3VA1140-5ED36-0AA0	3VA1140-6ED36-0AA0
50	3VA1150-4ED36-0AA0	3VA1150-5ED36-0AA0	3VA1150-6ED36-0AA0
63	3VA1163-4ED36-0AA0	3VA1163-5ED36-0AA0	3VA1163-6ED36-0AA0
80	3VA1180-4ED36-0AA0	3VA1180-5ED36-0AA0	3VA1180-6ED36-0AA0
100	3VA1110-4ED36-0AA0	3VA1110-5ED36-0AA0	3VA1110-6ED36-0AA0
125	3VA1112-4ED36-0AA0	3VA1112-5ED36-0AA0	3VA1112-6ED36-0AA0
160	3VA1116-4ED36-0AA0	3VA1116-5ED36-0AA0	3VA1116-6ED36-0AA0

Connection with nut keeper kit

16	3VA1196-4ED32-0AA0	3VA1196-5ED32-0AA0	3VA1196-6ED32-0AA0
20	3VA1120-4ED32-0AA0	3VA1120-5ED32-0AA0	3VA1120-6ED32-0AA0
25	3VA1125-4ED32-0AA0	3VA1125-5ED32-0AA0	3VA1125-6ED32-0AA0
32	3VA1132-4ED32-0AA0	3VA1132-5ED32-0AA0	3VA1132-6ED32-0AA0
40	3VA1140-4ED32-0AA0	3VA1140-5ED32-0AA0	3VA1140-6ED32-0AA0
50	3VA1150-4ED32-0AA0	3VA1150-5ED32-0AA0	3VA1150-6ED32-0AA0
63	3VA1163-4ED32-0AA0	3VA1163-5ED32-0AA0	3VA1163-6ED32-0AA0
80	3VA1180-4ED32-0AA0	3VA1180-5ED32-0AA0	3VA1180-6ED32-0AA0
100	3VA1110-4ED32-0AA0	3VA1110-5ED32-0AA0	3VA1110-6ED32-0AA0
125	3VA1112-4ED32-0AA0	3VA1112-5ED32-0AA0	3VA1112-6ED32-0AA0
160	3VA1116-4ED32-0AA0	3VA1116-5ED32-0AA0	3VA1116-6ED32-0AA0

Line protection, TM220 ATFM

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

Connection with box terminal

16	3VA1196-4EE36-0AA0	3VA1196-5EE36-0AA0	3VA1196-6EE36-0AA0
20	3VA1120-4EE36-0AA0	3VA1120-5EE36-0AA0	3VA1120-6EE36-0AA0
25	3VA1125-4EE36-0AA0	3VA1125-5EE36-0AA0	3VA1125-6EE36-0AA0
32	3VA1132-4EE36-0AA0	3VA1132-5EE36-0AA0	3VA1132-6EE36-0AA0
40	3VA1140-4EE36-0AA0	3VA1140-5EE36-0AA0	3VA1140-6EE36-0AA0
50	3VA1150-4EE36-0AA0	3VA1150-5EE36-0AA0	3VA1150-6EE36-0AA0
63	3VA1163-4EE36-0AA0	3VA1163-5EE36-0AA0	3VA1163-6EE36-0AA0
80	3VA1180-4EE36-0AA0	3VA1180-5EE36-0AA0	3VA1180-6EE36-0AA0
100	3VA1110-4EE36-0AA0	3VA1110-5EE36-0AA0	3VA1110-6EE36-0AA0
125	3VA1112-4EE36-0AA0	3VA1112-5EE36-0AA0	3VA1112-6EE36-0AA0
160	3VA1116-4EE36-0AA0	3VA1116-5EE36-0AA0	3VA1116-6EE36-0AA0

Connection with nut keeper kit

16	3VA1196-4EE32-0AA0	3VA1196-5EE32-0AA0	3VA1196-6EE32-0AA0
20	3VA1120-4EE32-0AA0	3VA1120-5EE32-0AA0	3VA1120-6EE32-0AA0
25	3VA1125-4EE32-0AA0	3VA1125-5EE32-0AA0	3VA1125-6EE32-0AA0
32	3VA1132-4EE32-0AA0	3VA1132-5EE32-0AA0	3VA1132-6EE32-0AA0
40	3VA1140-4EE32-0AA0	3VA1140-5EE32-0AA0	3VA1140-6EE32-0AA0
50	3VA1150-4EE32-0AA0	3VA1150-5EE32-0AA0	3VA1150-6EE32-0AA0
63	3VA1163-4EE32-0AA0	3VA1163-5EE32-0AA0	3VA1163-6EE32-0AA0
80	3VA1180-4EE32-0AA0	3VA1180-5EE32-0AA0	3VA1180-6EE32-0AA0
100	3VA1110-4EE32-0AA0	3VA1110-5EE32-0AA0	3VA1110-6EE32-0AA0
125	3VA1112-4EE32-0AA0	3VA1112-5EE32-0AA0	3VA1112-6EE32-0AA0
160	3VA1116-4EE32-0AA0	3VA1116-5EE32-0AA0	3VA1116-6EE32-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

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

Basic price per PU

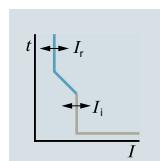
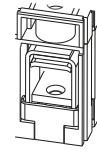
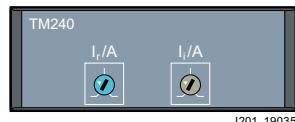
A

A

A

d

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



Line protection, TM240 ATAM

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

Connection with box terminal

3VA11	16	11 ... 16	160 ... 320	3VA1196-3EF36-0AA0
	20	14 ... 20	160 ... 320	3VA1120-3EF36-0AA0
	25	18 ... 25	160 ... 320	3VA1125-3EF36-0AA0
	32	22 ... 32	160 ... 320	3VA1132-3EF36-0AA0
	40	28 ... 40	200 ... 400	3VA1140-3EF36-0AA0
	50	35 ... 50	250 ... 500	3VA1150-3EF36-0AA0
	63	44 ... 63	315 ... 630	3VA1163-3EF36-0AA0
	80	56 ... 80	400 ... 800	3VA1180-3EF36-0AA0
	100	70 ... 100	500 ... 1000	3VA1110-3EF36-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3EF36-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3EF36-0AA0



Connection with nut keeper kit

3VA11	16	11 ... 16	160 ... 320	3VA1196-3EF32-0AA0
	20	14 ... 20	160 ... 320	3VA1120-3EF32-0AA0
	25	18 ... 25	160 ... 320	3VA1125-3EF32-0AA0
	32	22 ... 32	160 ... 320	3VA1132-3EF32-0AA0
	40	28 ... 40	200 ... 400	3VA1140-3EF32-0AA0
	50	35 ... 50	250 ... 500	3VA1150-3EF32-0AA0
	63	44 ... 63	315 ... 630	3VA1163-3EF32-0AA0
	80	56 ... 80	400 ... 800	3VA1180-3EF32-0AA0
	100	70 ... 100	500 ... 1000	3VA1110-3EF32-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3EF32-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3EF32-0AA0
3VA12	160	112 ... 160	800 ... 1600	--
	200	140 ... 200	1000 ... 2000	--
	250	175 ... 250	1250 ... 2500	--



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

Operating current of the instantaneous short-circuit protection "I"
 I_i

SD

I_{cu} up to 36 kA at 415 V, standard breaking capacity S
See "Overview", p. 2/6 and 2/7

(S)

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

Basic price per PU

A

A

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



Line protection, TM240 ATAM

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

Connection with nut keeper kit

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

Molded Case Circuit Breakers

3VA1 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 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)
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, TM240 ATAM

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

Connection with box terminal

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

Connection with 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

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

Line protection, TM240 ATAM

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

NEW	320	3VA1332-5EF32-0AA0	3VA1332-6EF32-0AA0	3VA1332-7EF32-0AA0
	400	3VA1340-5EF32-0AA0	3VA1340-6EF32-0AA0	3VA1340-7EF32-0AA0
NEW	500	3VA1450-5EF32-0AA0	3VA1450-6EF32-0AA0	3VA1450-7EF32-0AA0
	630	3VA1463-5EF32-0AA0	3VA1463-6EF32-0AA0	3VA1463-7EF32-0AA0
NEW	630	3VA1563-5EF32-0AA0	3VA1563-6EF32-0AA0	3VA1563-7EF32-0AA0
	800	3VA1580-5EF32-0AA0	3VA1580-6EF32-0AA0	3VA1580-7EF32-0AA0
	1000	3VA1510-5EF32-0AA0	3VA1510-6EF32-0AA0	3VA1510-7EF32-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

SD

I_{cu} up to 16 kA at 415 V,
very low breaking capacity B
See "Overview", p. 2/6 and 2/7

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

Basic price per PU

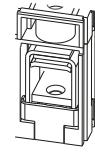
A

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

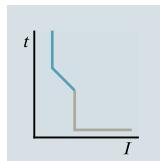


Line protection, TM210 FTFM, without neutral conductor protection

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

Connection with box terminal

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



Connection with nut keeper kit

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

Molded Case Circuit Breakers

3VA1 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 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

2

Line protection, TM210 FTFM, without neutral conductor protection

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

Connection with box terminal

16	3VA1096-3ED46-0AA0	3VA1096-4ED46-0AA0
20	3VA1020-3ED46-0AA0	3VA1020-4ED46-0AA0
25	3VA1025-3ED46-0AA0	3VA1025-4ED46-0AA0
32	3VA1032-3ED46-0AA0	3VA1032-4ED46-0AA0
40	3VA1040-3ED46-0AA0	3VA1040-4ED46-0AA0
50	3VA1050-3ED46-0AA0	3VA1050-4ED46-0AA0
63	3VA1063-3ED46-0AA0	3VA1063-4ED46-0AA0
80	3VA1080-3ED46-0AA0	3VA1080-4ED46-0AA0
100	3VA1010-3ED46-0AA0	3VA1010-4ED46-0AA0

Connection with nut keeper kit

16	3VA1096-3ED42-0AA0	3VA1096-4ED42-0AA0
20	3VA1020-3ED42-0AA0	3VA1020-4ED42-0AA0
25	3VA1025-3ED42-0AA0	3VA1025-4ED42-0AA0
32	3VA1032-3ED42-0AA0	3VA1032-4ED42-0AA0
40	3VA1040-3ED42-0AA0	3VA1040-4ED42-0AA0
50	3VA1050-3ED42-0AA0	3VA1050-4ED42-0AA0
63	3VA1063-3ED42-0AA0	3VA1063-4ED42-0AA0
80	3VA1080-3ED42-0AA0	3VA1080-4ED42-0AA0
100	3VA1010-3ED42-0AA0	3VA1010-4ED42-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

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

Basic price per PU

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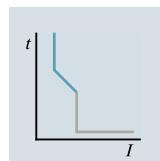
A

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



I201_19027



Line protection, TM210 FTFM, without neutral conductor protection

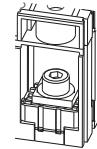
With fixed overload protection I_r and fixed short-circuit protection I_i

Connection with box terminal



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

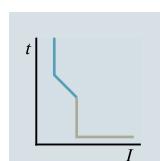
Connection with nut keeper kit



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



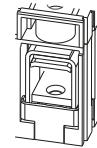
I201_19027



Line protection, TM210 FTFM, 50% neutral conductor protection

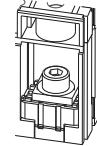
With fixed overload protection I_r and fixed short-circuit protection I_i

Connection with box terminal



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

Connection with nut keeper kit



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

Molded Case Circuit Breakers

3VA1 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 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)
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, without neutral conductor protection

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

Connection with box terminal

16	3VA1196-4ED46-0AA0	3VA1196-5ED46-0AA0	3VA1196-6ED46-0AA0
20	3VA1120-4ED46-0AA0	3VA1120-5ED46-0AA0	3VA1120-6ED46-0AA0
25	3VA1125-4ED46-0AA0	3VA1125-5ED46-0AA0	3VA1125-6ED46-0AA0
32	3VA1132-4ED46-0AA0	3VA1132-5ED46-0AA0	3VA1132-6ED46-0AA0
40	3VA1140-4ED46-0AA0	3VA1140-5ED46-0AA0	3VA1140-6ED46-0AA0
50	3VA1150-4ED46-0AA0	3VA1150-5ED46-0AA0	3VA1150-6ED46-0AA0
63	3VA1163-4ED46-0AA0	3VA1163-5ED46-0AA0	3VA1163-6ED46-0AA0
80	3VA1180-4ED46-0AA0	3VA1180-5ED46-0AA0	3VA1180-6ED46-0AA0
100	3VA1110-4ED46-0AA0	3VA1110-5ED46-0AA0	3VA1110-6ED46-0AA0
125	3VA1112-4ED46-0AA0	3VA1112-5ED46-0AA0	3VA1112-6ED46-0AA0
160	3VA1116-4ED46-0AA0	3VA1116-5ED46-0AA0	3VA1116-6ED46-0AA0

Connection with nut keeper kit

16	3VA1196-4ED42-0AA0	3VA1196-5ED42-0AA0	3VA1196-6ED42-0AA0
20	3VA1120-4ED42-0AA0	3VA1120-5ED42-0AA0	3VA1120-6ED42-0AA0
25	3VA1125-4ED42-0AA0	3VA1125-5ED42-0AA0	3VA1125-6ED42-0AA0
32	3VA1132-4ED42-0AA0	3VA1132-5ED42-0AA0	3VA1132-6ED42-0AA0
40	3VA1140-4ED42-0AA0	3VA1140-5ED42-0AA0	3VA1140-6ED42-0AA0
50	3VA1150-4ED42-0AA0	3VA1150-5ED42-0AA0	3VA1150-6ED42-0AA0
63	3VA1163-4ED42-0AA0	3VA1163-5ED42-0AA0	3VA1163-6ED42-0AA0
80	3VA1180-4ED42-0AA0	3VA1180-5ED42-0AA0	3VA1180-6ED42-0AA0
100	3VA1110-4ED42-0AA0	3VA1110-5ED42-0AA0	3VA1110-6ED42-0AA0
125	3VA1112-4ED42-0AA0	3VA1112-5ED42-0AA0	3VA1112-6ED42-0AA0
160	3VA1116-4ED42-0AA0	3VA1116-5ED42-0AA0	3VA1116-6ED42-0AA0

Line protection, TM210 FTFM, 50% neutral conductor protection

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

Connection with box terminal

100	3VA1110-4FD46-0AA0	3VA1110-5FD46-0AA0	3VA1110-6FD46-0AA0
125	3VA1112-4FD46-0AA0	3VA1112-5FD46-0AA0	3VA1112-6FD46-0AA0
160	3VA1116-4FD46-0AA0	3VA1116-5FD46-0AA0	3VA1116-6FD46-0AA0

Connection with nut keeper kit

100	3VA1110-4FD42-0AA0	3VA1110-5FD42-0AA0	3VA1110-6FD42-0AA0
125	3VA1112-4FD42-0AA0	3VA1112-5FD42-0AA0	3VA1112-6FD42-0AA0
160	3VA1116-4FD42-0AA0	3VA1116-5FD42-0AA0	3VA1116-6FD42-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

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

Basic price per PU

A A A d

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

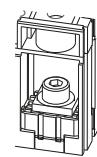


Line protection, TM210 FTFM, 100% neutral conductor protection

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

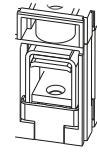
Connection with box terminal

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



Connection with nut keeper kit

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

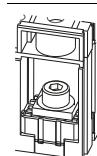


Line protection, TM220 ATFM, without neutral conductor protection

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

Connection with box terminal

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



Connection with nut keeper kit

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

Molded Case Circuit Breakers

3VA1 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 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)
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 protection

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

Connection with box terminal

16	3VA1196-4GD46-0AA0	3VA1196-5GD46-0AA0	3VA1196-6GD46-0AA0
20	3VA1120-4GD46-0AA0	3VA1120-5GD46-0AA0	3VA1120-6GD46-0AA0
25	3VA1125-4GD46-0AA0	3VA1125-5GD46-0AA0	3VA1125-6GD46-0AA0
32	3VA1132-4GD46-0AA0	3VA1132-5GD46-0AA0	3VA1132-6GD46-0AA0
40	3VA1140-4GD46-0AA0	3VA1140-5GD46-0AA0	3VA1140-6GD46-0AA0
50	3VA1150-4GD46-0AA0	3VA1150-5GD46-0AA0	3VA1150-6GD46-0AA0
63	3VA1163-4GD46-0AA0	3VA1163-5GD46-0AA0	3VA1163-6GD46-0AA0
80	3VA1180-4GD46-0AA0	3VA1180-5GD46-0AA0	3VA1180-6GD46-0AA0
100	3VA1110-4GD46-0AA0	3VA1110-5GD46-0AA0	3VA1110-6GD46-0AA0
125	3VA1112-4GD46-0AA0	3VA1112-5GD46-0AA0	3VA1112-6GD46-0AA0
160	3VA1116-4GD46-0AA0	3VA1116-5GD46-0AA0	3VA1116-6GD46-0AA0

Connection with nut keeper kit

16	3VA1196-4GD42-0AA0	3VA1196-5GD42-0AA0	3VA1196-6GD42-0AA0
20	3VA1120-4GD42-0AA0	3VA1120-5GD42-0AA0	3VA1120-6GD42-0AA0
25	3VA1125-4GD42-0AA0	3VA1125-5GD42-0AA0	3VA1125-6GD42-0AA0
32	3VA1132-4GD42-0AA0	3VA1132-5GD42-0AA0	3VA1132-6GD42-0AA0
40	3VA1140-4GD42-0AA0	3VA1140-5GD42-0AA0	3VA1140-6GD42-0AA0
50	3VA1150-4GD42-0AA0	3VA1150-5GD42-0AA0	3VA1150-6GD42-0AA0
63	3VA1163-4GD42-0AA0	3VA1163-5GD42-0AA0	3VA1163-6GD42-0AA0
80	3VA1180-4GD42-0AA0	3VA1180-5GD42-0AA0	3VA1180-6GD42-0AA0
100	3VA1110-4GD42-0AA0	3VA1110-5GD42-0AA0	3VA1110-6GD42-0AA0
125	3VA1112-4GD42-0AA0	3VA1112-5GD42-0AA0	3VA1112-6GD42-0AA0
160	3VA1116-4GD42-0AA0	3VA1116-5GD42-0AA0	3VA1116-6GD42-0AA0

Line protection, TM220 ATFM, without neutral conductor protection

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

Connection with box terminal

16	3VA1196-4EE46-0AA0	3VA1196-5EE46-0AA0	3VA1196-6EE46-0AA0
20	3VA1120-4EE46-0AA0	3VA1120-5EE46-0AA0	3VA1120-6EE46-0AA0
25	3VA1125-4EE46-0AA0	3VA1125-5EE46-0AA0	3VA1125-6EE46-0AA0
32	3VA1132-4EE46-0AA0	3VA1132-5EE46-0AA0	3VA1132-6EE46-0AA0
40	3VA1140-4EE46-0AA0	3VA1140-5EE46-0AA0	3VA1140-6EE46-0AA0
50	3VA1150-4EE46-0AA0	3VA1150-5EE46-0AA0	3VA1150-6EE46-0AA0
63	3VA1163-4EE46-0AA0	3VA1163-5EE46-0AA0	3VA1163-6EE46-0AA0
80	3VA1180-4EE46-0AA0	3VA1180-5EE46-0AA0	3VA1180-6EE46-0AA0
100	3VA1110-4EE46-0AA0	3VA1110-5EE46-0AA0	3VA1110-6EE46-0AA0
125	3VA1112-4EE46-0AA0	3VA1112-5EE46-0AA0	3VA1112-6EE46-0AA0
160	3VA1116-4EE46-0AA0	3VA1116-5EE46-0AA0	3VA1116-6EE46-0AA0

Connection with nut keeper kit

16	3VA1196-4EE42-0AA0	3VA1196-5EE42-0AA0	3VA1196-6EE42-0AA0
20	3VA1120-4EE42-0AA0	3VA1120-5EE42-0AA0	3VA1120-6EE42-0AA0
25	3VA1125-4EE42-0AA0	3VA1125-5EE42-0AA0	3VA1125-6EE42-0AA0
32	3VA1132-4EE42-0AA0	3VA1132-5EE42-0AA0	3VA1132-6EE42-0AA0
40	3VA1140-4EE42-0AA0	3VA1140-5EE42-0AA0	3VA1140-6EE42-0AA0
50	3VA1150-4EE42-0AA0	3VA1150-5EE42-0AA0	3VA1150-6EE42-0AA0
63	3VA1163-4EE42-0AA0	3VA1163-5EE42-0AA0	3VA1163-6EE42-0AA0
80	3VA1180-4EE42-0AA0	3VA1180-5EE42-0AA0	3VA1180-6EE42-0AA0
100	3VA1110-4EE42-0AA0	3VA1110-5EE42-0AA0	3VA1110-6EE42-0AA0
125	3VA1112-4EE42-0AA0	3VA1112-5EE42-0AA0	3VA1112-6EE42-0AA0
160	3VA1116-4EE42-0AA0	3VA1116-5EE42-0AA0	3VA1116-6EE42-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

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

Basic price per PU

A

A

A

d

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



Line protection, TM220 ATFM, 50% neutral conductor protection

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

Connection with box terminal



Connection with nut keeper kit



Line protection, TM220 ATFM, 100% neutral conductor protection

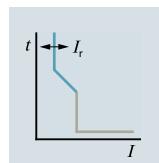
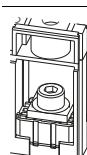
With adjustable overload protection I_r and fixed short-circuit protection I_i



Connection with box terminal



Connection with nut keeper kit



I_r

I

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

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

I_r

I

Molded Case Circuit Breakers

3VA1 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 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)
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, TM220 ATFM, 50% neutral conductor protection

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

Connection with box terminal

100
125
1603VA1110-4FE46-0AA0
3VA1112-4FE46-0AA0
3VA1116-4FE46-0AA03VA1110-5FE46-0AA0
3VA1112-5FE46-0AA0
3VA1116-5FE46-0AA03VA1110-6FE46-0AA0
3VA1112-6FE46-0AA0
3VA1116-6FE46-0AA0

Connection with nut keeper kit

100
125
1603VA1110-4FE42-0AA0
3VA1112-4FE42-0AA0
3VA1116-4FE42-0AA03VA1110-5FE42-0AA0
3VA1112-5FE42-0AA0
3VA1116-5FE42-0AA03VA1110-6FE42-0AA0
3VA1112-6FE42-0AA0
3VA1116-6FE42-0AA0

Line protection, TM220 ATFM, 100% neutral conductor protection

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

Connection with box terminal

16
20
25
323VA1196-4GE46-0AA0
3VA1120-4GE46-0AA0
3VA1125-4GE46-0AA0
3VA1132-4GE46-0AA03VA1196-5GE46-0AA0
3VA1120-5GE46-0AA0
3VA1125-5GE46-0AA0
3VA1132-5GE46-0AA03VA1196-6GE46-0AA0
3VA1120-6GE46-0AA0
3VA1125-6GE46-0AA0
3VA1132-6GE46-0AA040
50
63
803VA1140-4GE46-0AA0
3VA1150-4GE46-0AA0
3VA1163-4GE46-0AA0
3VA1180-4GE46-0AA03VA1140-5GE46-0AA0
3VA1150-5GE46-0AA0
3VA1163-5GE46-0AA0
3VA1180-5GE46-0AA03VA1140-6GE46-0AA0
3VA1150-6GE46-0AA0
3VA1163-6GE46-0AA0
3VA1180-6GE46-0AA0100
125
1603VA1110-4GE46-0AA0
3VA1112-4GE46-0AA0
3VA1116-4GE46-0AA03VA1110-5GE46-0AA0
3VA1112-5GE46-0AA0
3VA1116-5GE46-0AA03VA1110-6GE46-0AA0
3VA1112-6GE46-0AA0
3VA1116-6GE46-0AA0

Connection with nut keeper kit

16
20
25
323VA1196-4GE42-0AA0
3VA1120-4GE42-0AA0
3VA1125-4GE42-0AA0
3VA1132-4GE42-0AA03VA1196-5GE42-0AA0
3VA1120-5GE42-0AA0
3VA1125-5GE42-0AA0
3VA1132-5GE42-0AA03VA1196-6GE42-0AA0
3VA1120-6GE42-0AA0
3VA1125-6GE42-0AA0
3VA1132-6GE42-0AA040
50
63
803VA1140-4GE42-0AA0
3VA1150-4GE42-0AA0
3VA1163-4GE42-0AA0
3VA1180-4GE42-0AA03VA1140-5GE42-0AA0
3VA1150-5GE42-0AA0
3VA1163-5GE42-0AA0
3VA1180-5GE42-0AA03VA1140-6GE42-0AA0
3VA1150-6GE42-0AA0
3VA1163-6GE42-0AA0
3VA1180-6GE42-0AA0100
125
1603VA1110-4GE42-0AA0
3VA1112-4GE42-0AA0
3VA1116-4GE42-0AA03VA1110-5GE42-0AA0
3VA1112-5GE42-0AA0
3VA1116-5GE42-0AA03VA1110-6GE42-0AA0
3VA1112-6GE42-0AA0
3VA1116-6GE42-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

Operating current of the instantaneous short-circuit protection " I_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

Basic price per PU
Article No.

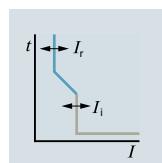
A

A

A

d

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

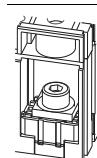


Line protection, TM240 ATAM, without neutral conductor protection

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

Connection with box terminal

3VA11	16	11 ... 16	160 ... 320	3VA1196-3EF46-0AA0
	20	14 ... 20	160 ... 320	3VA1120-3EF46-0AA0
	25	18 ... 25	160 ... 320	3VA1125-3EF46-0AA0
	32	22 ... 32	160 ... 320	3VA1132-3EF46-0AA0
	40	28 ... 40	200 ... 400	3VA1140-3EF46-0AA0
	50	35 ... 50	250 ... 500	3VA1150-3EF46-0AA0
	63	44 ... 63	315 ... 630	3VA1163-3EF46-0AA0
	80	56 ... 80	400 ... 800	3VA1180-3EF46-0AA0
	100	70 ... 100	500 ... 1000	3VA1110-3EF46-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3EF46-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3EF46-0AA0



Connection with nut keeper kit

3VA11	16	11 ... 16	160 ... 320	3VA1196-3EF42-0AA0
	20	14 ... 20	160 ... 320	3VA1120-3EF42-0AA0
	25	18 ... 25	160 ... 320	3VA1125-3EF42-0AA0
	32	22 ... 32	160 ... 320	3VA1132-3EF42-0AA0
	40	28 ... 40	200 ... 400	3VA1140-3EF42-0AA0
	50	35 ... 50	250 ... 500	3VA1150-3EF42-0AA0
	63	44 ... 63	315 ... 630	3VA1163-3EF42-0AA0
	80	56 ... 80	400 ... 800	3VA1180-3EF42-0AA0
	100	70 ... 100	500 ... 1000	3VA1110-3EF42-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3EF42-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3EF42-0AA0
3VA12	160	112 ... 160	800 ... 1600	--
	200	140 ... 200	1000 ... 2000	--
	250	175 ... 250	1250 ... 2500	--



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

Operating current of the instantaneous short-circuit protection " I_i "
 I_i

SD

I_{cu} up to 36 kA at 415 V, standard breaking capacity S

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

S

Article No.
www.siemens.com/product

Basic price per PU
Article No.

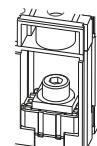
A

A

A

d

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



Line protection, TM240 ATAM, without neutral conductor protection

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

Connection with nut keeper kit

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

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current I_h	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)
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, TM240 ATAM, without neutral conductor protection

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

Connection with box terminal

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

Connection with 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

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

Line protection, TM240 ATAM, without neutral conductor protection

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

NEW	320	3VA1332-5EF42-0AA0	3VA1332-6EF42-0AA0	3VA1332-7EF42-0AA0
	400	3VA1340-5EF42-0AA0	3VA1340-6EF42-0AA0	3VA1340-7EF42-0AA0
NEW	500	3VA1450-5EF42-0AA0	3VA1450-6EF42-0AA0	3VA1450-7EF42-0AA0
	630	3VA1463-5EF42-0AA0	3VA1463-6EF42-0AA0	3VA1463-7EF42-0AA0
NEW	630	3VA1563-5EF42-0AA0	3VA1563-6EF42-0AA0	3VA1563-7EF42-0AA0
	800	3VA1580-5EF42-0AA0	3VA1580-6EF42-0AA0	3VA1580-7EF42-0AA0
	1000	3VA1510-5EF42-0AA0	3VA1510-6EF42-0AA0	3VA1510-7EF42-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

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

Basic price per PU

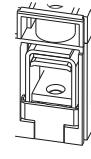
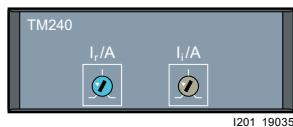
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4-pole, fixed-mounted, 3VA11/3VA12, up to 250 A
Thermal-magnetic trip unit

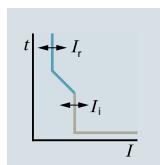


Line protection, TM240 ATAM, 50% neutral conductor protection
With adjustable overload protection I_r and adjustable short-circuit protection I_i

Connection with box terminal

3VA11	100	70 ... 100	500 ... 1000
	125	88 ... 125	625 ... 1250
	160	112 ... 160	800 ... 1600

3VA1110-3FF46-0AA0
3VA1112-3FF46-0AA0
3VA1116-3FF46-0AA0



Connection with nut keeper kit

3VA11	100	70 ... 100	500 ... 1000
	125	88 ... 125	625 ... 1250
	160	112 ... 160	800 ... 1600
3VA12	160	112 ... 160	800 ... 1600
	200	140 ... 200	1000 ... 2000
	250	175 ... 250	1250 ... 2500

3VA1110-3FF42-0AA0
3VA1112-3FF42-0AA0
3VA1116-3FF42-0AA0



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

Operating current of the instantaneous short-circuit protection "I"
 I_i

SD

I_{cu} up to 36 kA at 415 V,
standard breaking capacity S
See "Overview", p. 2/6 and 2/7

S

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

Basic price per PU

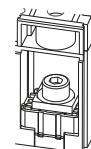
A

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



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

Connection with nut keeper kit

3VA13 NEW	320	220 ... 320	1600 ... 3200
	400	280 ... 400	2000 ... 4000
3VA14 NEW	500	350 ... 500	2500 ... 5000
	630	440 ... 630	2520 ... 5040

3VA1332-4FF42-0AA0
3VA1340-4FF42-0AA0

3VA1450-4FF42-0AA0
3VA1463-4FF42-0AA0

Molded Case Circuit Breakers

3VA1 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 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)
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, TM240 ATAM, 50% neutral conductor protection

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

Connection with box terminal

100	3VA1110-4FF46-0AA0	3VA1110-5FF46-0AA0	3VA1110-6FF46-0AA0
125	3VA1112-4FF46-0AA0	3VA1112-5FF46-0AA0	3VA1112-6FF46-0AA0
160	3VA1116-4FF46-0AA0	3VA1116-5FF46-0AA0	3VA1116-6FF46-0AA0

Connection with nut keeper kit

100	3VA1110-4FF42-0AA0	3VA1110-5FF42-0AA0	3VA1110-6FF42-0AA0
125	3VA1112-4FF42-0AA0	3VA1112-5FF42-0AA0	3VA1112-6FF42-0AA0
160	3VA1116-4FF42-0AA0	3VA1116-5FF42-0AA0	3VA1116-6FF42-0AA0
200	3VA1216-4FF42-0AA0	3VA1216-5FF42-0AA0	3VA1216-6FF42-0AA0
250	3VA1220-4FF42-0AA0	3VA1220-5FF42-0AA0	3VA1220-6FF42-0AA0
	3VA1225-4FF42-0AA0	3VA1225-5FF42-0AA0	3VA1225-6FF42-0AA0

Rated current I_n	SD	I_{cu} up to 55 kA at 415 V, medium breaking capacity M 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)	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C See "Overview", p. 2/6 and 2/7	(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	d	Article No. www.siemens.com/ product ?Article No.	Basic price per PU

Line protection, TM240 ATAM, 50% neutral conductor protection

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

NEW 320	3VA1332-5FF42-0AA0	3VA1332-6FF42-0AA0	3VA1332-7FF42-0AA0
400	3VA1340-5FF42-0AA0	3VA1340-6FF42-0AA0	3VA1340-7FF42-0AA0
NEW 500	3VA1450-5FF42-0AA0	3VA1450-6FF42-0AA0	3VA1450-7FF42-0AA0
630	3VA1463-5FF42-0AA0	3VA1463-6FF42-0AA0	3VA1463-7FF42-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current I_n

Current setting of the inverse-time delayed overload protection "L" I_r
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](http://www.siemens.com/product)?Article No.

Basic price per PU

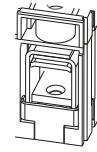
A

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



Line protection, TM240 ATAM, 100% neutral conductor protection

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

Connection with box terminal

3VA11	16	11 ... 16	160 ... 320	3VA1196-3GF46-0AA0
	20	14 ... 20	160 ... 320	3VA1120-3GF46-0AA0
	25	18 ... 25	160 ... 320	3VA1125-3GF46-0AA0
	32	22 ... 32	160 ... 320	3VA1132-3GF46-0AA0
	40	28 ... 40	200 ... 400	3VA1140-3GF46-0AA0
	50	35 ... 50	250 ... 500	3VA1150-3GF46-0AA0
	63	44 ... 63	315 ... 630	3VA1163-3GF46-0AA0
	80	56 ... 80	400 ... 800	3VA1180-3GF46-0AA0
	100	70 ... 100	500 ... 1000	3VA1110-3GF46-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3GF46-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3GF46-0AA0

Connection with nut keeper kit

3VA11	16	11 ... 16	160 ... 320	3VA1196-3GF42-0AA0
	20	14 ... 20	160 ... 320	3VA1120-3GF42-0AA0
	25	18 ... 25	160 ... 320	3VA1125-3GF42-0AA0
	32	22 ... 32	160 ... 320	3VA1132-3GF42-0AA0
	40	28 ... 40	200 ... 400	3VA1140-3GF42-0AA0
	50	35 ... 50	250 ... 500	3VA1150-3GF42-0AA0
	63	44 ... 63	315 ... 630	3VA1163-3GF42-0AA0
	80	56 ... 80	400 ... 800	3VA1180-3GF42-0AA0
	100	70 ... 100	500 ... 1000	3VA1110-3GF42-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3GF42-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3GF42-0AA0
3VA12	160	112 ... 160	800 ... 1600	--
	200	140 ... 200	1000 ... 2000	--
	250	175 ... 250	1250 ... 2500	--



Connection technology

Type

Rated current I_n

Current setting of the inverse-time delayed overload protection "L" I_r
Operating current of the instantaneous short-circuit protection "I" I_i

SD

I_{cu} up to 36 kA at 415 V, standard breaking capacity S
See "Overview", p. 2/6 and 2/7

(S)

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

Basic price per PU

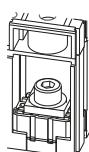
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4-pole, fixed-mounted, 3VA13/3VA14/3VA15, up to 1000 A
Thermal-magnetic trip unit



Line protection, TM240 ATAM, 100% neutral conductor protection

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

Connection with nut keeper kit

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

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current I_h	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)
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, TM240 ATAM, 100% neutral conductor protection

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

Connection with box terminal

16	3VA1196-4GF46-0AA0	3VA1196-5GF46-0AA0	3VA1196-6GF46-0AA0
20	3VA1120-4GF46-0AA0	3VA1120-5GF46-0AA0	3VA1120-6GF46-0AA0
25	3VA1125-4GF46-0AA0	3VA1125-5GF46-0AA0	3VA1125-6GF46-0AA0
32	3VA1132-4GF46-0AA0	3VA1132-5GF46-0AA0	3VA1132-6GF46-0AA0
40	3VA1140-4GF46-0AA0	3VA1140-5GF46-0AA0	3VA1140-6GF46-0AA0
50	3VA1150-4GF46-0AA0	3VA1150-5GF46-0AA0	3VA1150-6GF46-0AA0
63	3VA1163-4GF46-0AA0	3VA1163-5GF46-0AA0	3VA1163-6GF46-0AA0
80	3VA1180-4GF46-0AA0	3VA1180-5GF46-0AA0	3VA1180-6GF46-0AA0
100	3VA1110-4GF46-0AA0	3VA1110-5GF46-0AA0	3VA1110-6GF46-0AA0
125	3VA1112-4GF46-0AA0	3VA1112-5GF46-0AA0	3VA1112-6GF46-0AA0
160	3VA1116-4GF46-0AA0	3VA1116-5GF46-0AA0	3VA1116-6GF46-0AA0

Connection with nut keeper kit

16	3VA1196-4GF42-0AA0	3VA1196-5GF42-0AA0	3VA1196-6GF42-0AA0
20	3VA1120-4GF42-0AA0	3VA1120-5GF42-0AA0	3VA1120-6GF42-0AA0
25	3VA1125-4GF42-0AA0	3VA1125-5GF42-0AA0	3VA1125-6GF42-0AA0
32	3VA1132-4GF42-0AA0	3VA1132-5GF42-0AA0	3VA1132-6GF42-0AA0
40	3VA1140-4GF42-0AA0	3VA1140-5GF42-0AA0	3VA1140-6GF42-0AA0
50	3VA1150-4GF42-0AA0	3VA1150-5GF42-0AA0	3VA1150-6GF42-0AA0
63	3VA1163-4GF42-0AA0	3VA1163-5GF42-0AA0	3VA1163-6GF42-0AA0
80	3VA1180-4GF42-0AA0	3VA1180-5GF42-0AA0	3VA1180-6GF42-0AA0
100	3VA1110-4GF42-0AA0	3VA1110-5GF42-0AA0	3VA1110-6GF42-0AA0
125	3VA1112-4GF42-0AA0	3VA1112-5GF42-0AA0	3VA1112-6GF42-0AA0
160	3VA1116-4GF42-0AA0	3VA1116-5GF42-0AA0	3VA1116-6GF42-0AA0
160	3VA1216-4GF42-0AA0	3VA1216-5GF42-0AA0	3VA1216-6GF42-0AA0
200	3VA1220-4GF42-0AA0	3VA1220-5GF42-0AA0	3VA1220-6GF42-0AA0
250	3VA1225-4GF42-0AA0	3VA1225-5GF42-0AA0	3VA1225-6GF42-0AA0

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

Line protection, TM240 ATAM, 100% neutral conductor protection

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

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

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Starter protection

Selection and ordering data

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_f

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

(M)

Article No.
www.siemens.com/product

Basic price per PU

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



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

Connection with box terminal



Connection with nut keeper kit



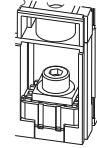
Starter protection, TM120M AM
With adjustable short-circuit protection I_i



Connection with box terminal



Connection with nut keeper kit



3VA11 20 -- 140 ... 320 3VA1120-5MH36-0AA0

32 -- 220 ... 510 3VA1132-5MH36-0AA0

40 -- 280 ... 640 3VA1140-5MH36-0AA0

50 -- 350 ... 800 3VA1150-5MH36-0AA0

63 -- 440 ... 1010 3VA1163-5MH36-0AA0

80 -- 560 ... 1280 3VA1180-5MH36-0AA0

100 -- 700 ... 1600 3VA1110-5MH36-0AA0

125 -- 875 ... 2000 3VA1112-5MH36-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Starter protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current I_h	I_{cu} up to 70 kA at 415 V, high breaking capacity H See "Overview", p. 2/6 and 2/7	(H)	I_{cu} up to 110 kA at 415 V, very high switching capacity C See "Overview", p. 2/6 and 2/7	(C)
A d	Article No. www.siemens.com/ product?Article No.	Basic price per PU	Article No. www.siemens.com/ product?Article No.	Basic price per PU

Starter protection, TM110M FM

With fixed short-circuit protection I_t

Connection with box terminal

NEW	1	3VA1181-6MG36-0AA0
NEW	2	3VA1102-6MG36-0AA0
NEW	4	3VA1104-6MG36-0AA0
	8	3VA1108-6MG36-0AA0
	12.5	3VA1192-6MG36-0AA0

Connection with nut keeper kit

NEW	1	3VA1181-6MG32-0AA0
NEW	2	3VA1102-6MG32-0AA0
NEW	4	3VA1104-6MG32-0AA0
	8	3VA1108-6MG32-0AA0
	12.5	3VA1192-6MG32-0AA0

Starter protection, TM120M AM

With adjustable short-circuit protection I_t

Connection with box terminal

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

Connection with nut keeper kit

Connection with nut keeper kit

20	3VA1120-6MH32-0AA0	--
32	3VA1132-6MH32-0AA0	--
40	3VA1140-6MH32-0AA0	--
50	3VA1150-6MH32-0AA0	--
63	3VA1163-6MH32-0AA0	--
80	3VA1180-6MH32-0AA0	--
100	3VA1110-6MH32-0AA0	--
125	3VA1112-6MH32-0AA0	--
160	3VA1216-6MH32-0AA0	--
200	3VA1220-6MH32-0AA0	--
NEW 250	3VA1325-6MH32-0AA0	--
320	3VA1332-6MH32-0AA0	--
NEW 400	3VA1440-6MH32-0AA0	--
500	3VA1450-6MH32-0AA0	--
NEW 630	3VA1563-6MH32-0AA0	3VA1563-7MH32-0AA0
800	3VA1580-6MH32-0AA0	3VA1580-7MH32-0AA0

Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 1000 A, IEC

Switch disconnectors

Selection and ordering data

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

PG = 1CB



Connection technology

Rated uninterrupted current I_u

Current setting of the inverse-time delayed overload protection "L" I_r

SD

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

Basic price per PU

A

A

d

**3-pole, fixed-mounted, 3VA11/3VA12/3VA13, up to 400 A
Without trip unit**

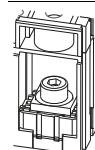
Switch disconnector without SD100 trip unit



Connection with box terminal

3VA11	63	--	--
	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	--	--
3VA14 NEW	630 ¹⁾	--	--

**3VA1163-1AA32-0AA0
3VA1110-1AA32-0AA0
3VA1112-1AA32-0AA0
3VA1116-1AA32-0AA0
3VA1225-1AA32-0AA0
3VA1340-1AA32-0AA0
3VA1463-1AA32-0AA0**

**4-pole, fixed-mounted, 3VA11/3VA12/3VA13, up to 400 A
Without trip unit**

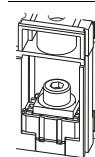
Switch disconnector without SD100 trip unit



Connection with box terminal

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

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



Connection with nut keeper kit

3VA11	63	--	--
	100	--	--
	125	--	--
	160	--	--
3VA13	400	--	--
3VA14 NEW	500 ¹⁾	--	--

**3VA1163-1AA42-0AA0
3VA1110-1AA42-0AA0
3VA1112-1AA42-0AA0
3VA1116-1AA42-0AA0
3VA1225-1AA42-0AA0
3VA1340-1AA42-0AA0
3VA1450-1AA42-0AA0**

¹⁾ Start of delivery scheduled for 2nd quarter 2019

Molded Case Circuit Breakers
3VA1 Molded Case Circuit Breakers up to 1000 A, IEC**Notes****2**Note

You will find the 3VA2 molded case circuit breakers up to 1000 A, IEC from page [2/48](#) 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

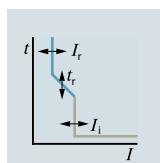
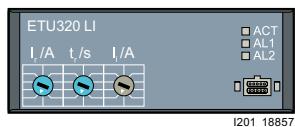
PS = 1 UNIT

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

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



Line protection, ETU320 LI

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

Connection with box terminal

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

3VA20	25	10 ... 25	38 ... 300	3VA2025-5HL32-0AA0
	40	16 ... 40	60 ... 480	3VA2040-5HL32-0AA0
	63	25 ... 63	95 ... 756	3VA2063-5HL32-0AA0
	100	40 ... 100	150 ... 1200	3VA2010-5HL32-0AA0
3VA21	25	10 ... 25	38 ... 300	3VA2125-5HL32-0AA0
	40	16 ... 40	60 ... 480	3VA2140-5HL32-0AA0
	63	25 ... 63	95 ... 756	3VA2163-5HL32-0AA0
	100	40 ... 100	150 ... 1200	3VA2110-5HL32-0AA0
	160	63 ... 160	240 ... 1600	3VA2116-5HL32-0AA0
3VA22	160	63 ... 160	240 ... 1920	3VA2216-5HL32-0AA0
	250	100 ... 250	375 ... 2500	3VA2225-5HL32-0AA0
3VA23	250	100 ... 250	375 ... 3000	3VA2325-5HL32-0AA0
	400	160 ... 400	600 ... 4000	3VA2340-5HL32-0AA0
3VA24	400	160 ... 400	600 ... 4800 ¹⁾	3VA2440-5HL32-0AA0
	630	250 ... 630	945 ... 5670	3VA2463-5HL32-0AA0
3VA25	630	250 ... 630	945 ... 7560	3VA2563-5HL32-0AA0
	800	320 ... 800	1200 ... 8000	3VA2580-5HL32-0AA0
	1000	400 ... 1000	1500 ... 10000	3VA2510-5HL32-0AA0

¹⁾ At breaking capacity L 4400 A

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

Line protection, ETU320 LI

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

Connection with box terminal									
25	3VA2025-6HL36-0AA0		3VA2025-7HL36-0AA0		3VA2025-8HL36-0AA0		3VA2025-8HL36-0AA0		
40	3VA2040-6HL36-0AA0		3VA2040-7HL36-0AA0		3VA2040-8HL36-0AA0		3VA2040-8HL36-0AA0		
63	3VA2063-6HL36-0AA0		3VA2063-7HL36-0AA0		3VA2063-8HL36-0AA0		3VA2063-8HL36-0AA0		
100	3VA2010-6HL36-0AA0		3VA2010-7HL36-0AA0		3VA2010-8HL36-0AA0		3VA2010-8HL36-0AA0		
25	3VA2125-6HL36-0AA0		3VA2125-7HL36-0AA0		3VA2125-8HL36-0AA0		3VA2125-8HL36-0AA0		
40	3VA2140-6HL36-0AA0		3VA2140-7HL36-0AA0		3VA2140-8HL36-0AA0		3VA2140-8HL36-0AA0		
63	3VA2163-6HL36-0AA0		3VA2163-7HL36-0AA0		3VA2163-8HL36-0AA0		3VA2163-8HL36-0AA0		
100	3VA2110-6HL36-0AA0		3VA2110-7HL36-0AA0		3VA2110-8HL36-0AA0		3VA2110-8HL36-0AA0		
160	3VA2116-6HL36-0AA0		3VA2116-7HL36-0AA0		3VA2116-8HL36-0AA0		3VA2116-8HL36-0AA0		
Connection with nut keeper kit									
25	3VA2025-6HL32-0AA0		3VA2025-7HL32-0AA0		3VA2025-8HL32-0AA0		3VA2025-8HL32-0AA0		
40	3VA2040-6HL32-0AA0		3VA2040-7HL32-0AA0		3VA2040-8HL32-0AA0		3VA2040-8HL32-0AA0		
63	3VA2063-6HL32-0AA0		3VA2063-7HL32-0AA0		3VA2063-8HL32-0AA0		3VA2063-8HL32-0AA0		
100	3VA2010-6HL32-0AA0		3VA2010-7HL32-0AA0		3VA2010-8HL32-0AA0		3VA2010-8HL32-0AA0		
25	3VA2125-6HL32-0AA0		3VA2125-7HL32-0AA0		3VA2125-8HL32-0AA0		3VA2125-8HL32-0AA0		
40	3VA2140-6HL32-0AA0		3VA2140-7HL32-0AA0		3VA2140-8HL32-0AA0		3VA2140-8HL32-0AA0		
63	3VA2163-6HL32-0AA0		3VA2163-7HL32-0AA0		3VA2163-8HL32-0AA0		3VA2163-8HL32-0AA0		
100	3VA2110-6HL32-0AA0		3VA2110-7HL32-0AA0		3VA2110-8HL32-0AA0		3VA2110-8HL32-0AA0		
160	3VA2116-6HL32-0AA0		3VA2116-7HL32-0AA0		3VA2116-8HL32-0AA0		3VA2116-8HL32-0AA0		
250	3VA2216-6HL32-0AA0		3VA2216-7HL32-0AA0		3VA2216-8HL32-0AA0		3VA2216-8HL32-0AA0		
250	3VA2225-6HL32-0AA0		3VA2225-7HL32-0AA0		3VA2225-8HL32-0AA0		3VA2225-8HL32-0AA0		
250	3VA2325-6HL32-0AA0		3VA2325-7HL32-0AA0		3VA2325-8HL32-0AA0		3VA2325-8HL32-0AA0		
400	3VA2340-6HL32-0AA0		3VA2340-7HL32-0AA0		3VA2340-8HL32-0AA0		3VA2340-8HL32-0AA0		
400	3VA2440-6HL32-0AA0		3VA2440-7HL32-0AA0		3VA2440-8HL32-0AA0		3VA2440-8HL32-0AA0		
630	3VA2463-6HL32-0AA0		3VA2463-7HL32-0AA0		3VA2463-8HL32-0AA0		3VA2463-8HL32-0AA0		
630	3VA2563-6HL32-0AA0		3VA2563-7HL32-0AA0		--		--		
800	3VA2580-6HL32-0AA0		3VA2580-7HL32-0AA0		--		--		
1000	3VA2510-6HL32-0AA0		3VA2510-7HL32-0AA0		--		--		

Molded Case Circuit Breakers

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

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type
Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

Operating current of the instantaneous short-circuit protection "I"
 I_i

Ground-fault protection G
 I_g

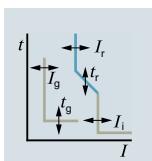
SD
d

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

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



Line protection, ETU330 LIG

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

Connection with box terminal



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



Connection with nut keeper kit

3VA20	25	10 ... 25	38 ... 300	15 ... 25	3VA2025-5HM32-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	3VA2040-5HM32-0AA0
	63	25 ... 63	95 ... 756	16 ... 63	3VA2063-5HM32-0AA0
	100	40 ... 100	150 ... 1200	20 ... 100	3VA2010-5HM32-0AA0
3VA21	25	10 ... 25	38 ... 300	15 ... 25	3VA2125-5HM32-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	3VA2140-5HM32-0AA0
	63	25 ... 63	95 ... 756	16 ... 63	3VA2163-5HM32-0AA0
	100	40 ... 100	150 ... 1200	20 ... 100	3VA2110-5HM32-0AA0
	160	63 ... 160	240 ... 1600	32 ... 160	3VA2116-5HM32-0AA0
3VA22	160	63 ... 160	240 ... 1920	32 ... 160	3VA2216-5HM32-0AA0
	250	100 ... 250	375 ... 2500	50 ... 250	3VA2225-5HM32-0AA0
3VA23	250	100 ... 250	375 ... 3000	50 ... 250	3VA2325-5HM32-0AA0
	400	160 ... 400	600 ... 4000	80 ... 400	3VA2340-5HM32-0AA0
3VA24	400	160 ... 400	600 ... 4800 ¹⁾	80 ... 400	3VA2440-5HM32-0AA0
	630	250 ... 630	945 ... 5670	126 ... 630	3VA2463-5HM32-0AA0
3VA25	630	250 ... 630	945 ... 7560	126 ... 630	3VA2563-5HM32-0AA0
	800	320 ... 800	1200 ... 8000	160 ... 800	3VA2580-5HM32-0AA0
	1000	400 ... 1000	1500 ... 10000	200 ... 1000	3VA2510-5HM32-0AA0

¹⁾ At breaking capacity L 4400 A

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 switching capacity C See "Overview", p. 2/8 and 2/9	(C)	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L See "Overview", p. 2/8 and 2/9	(L)
A	d			d			d		

Line protection, ETU330 LIG

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

Connection with box terminal			
25	3VA2025-6HM36-0AA0	3VA2025-7HM36-0AA0	3VA2025-8HM36-0AA0
40	3VA2040-6HM36-0AA0	3VA2040-7HM36-0AA0	3VA2040-8HM36-0AA0
63	3VA2063-6HM36-0AA0	3VA2063-7HM36-0AA0	3VA2063-8HM36-0AA0
100	3VA2010-6HM36-0AA0	3VA2010-7HM36-0AA0	3VA2010-8HM36-0AA0
Connection with nut keeper kit			
25	3VA2025-6HM32-0AA0	3VA2025-7HM32-0AA0	3VA2025-8HM32-0AA0
40	3VA2040-6HM32-0AA0	3VA2040-7HM32-0AA0	3VA2040-8HM32-0AA0
63	3VA2063-6HM32-0AA0	3VA2063-7HM32-0AA0	3VA2063-8HM32-0AA0
100	3VA2010-6HM32-0AA0	3VA2010-7HM32-0AA0	3VA2010-8HM32-0AA0
160	3VA2125-6HM32-0AA0	3VA2125-7HM32-0AA0	3VA2125-8HM32-0AA0
250	3VA2140-6HM32-0AA0	3VA2140-7HM32-0AA0	3VA2140-8HM32-0AA0
400	3VA2163-6HM32-0AA0	3VA2163-7HM32-0AA0	3VA2163-8HM32-0AA0
100	3VA2110-6HM32-0AA0	3VA2110-7HM32-0AA0	3VA2110-8HM32-0AA0
160	3VA2116-6HM32-0AA0	3VA2116-7HM32-0AA0	3VA2116-8HM32-0AA0
160	3VA2216-6HM32-0AA0	3VA2216-7HM32-0AA0	3VA2216-8HM32-0AA0
250	3VA2225-6HM32-0AA0	3VA2225-7HM32-0AA0	3VA2225-8HM32-0AA0
250	3VA2325-6HM32-0AA0	3VA2325-7HM32-0AA0	3VA2325-8HM32-0AA0
400	3VA2340-6HM32-0AA0	3VA2340-7HM32-0AA0	3VA2340-8HM32-0AA0
400	3VA2440-6HM32-0AA0	3VA2440-7HM32-0AA0	3VA2440-8HM32-0AA0
630	3VA2463-6HM32-0AA0	3VA2463-7HM32-0AA0	3VA2463-8HM32-0AA0
630	3VA2563-6HM32-0AA0	3VA2563-7HM32-0AA0	--
800	3VA2580-6HM32-0AA0	3VA2580-7HM32-0AA0	--
1000	3VA2510-6HM32-0AA0	3VA2510-7HM32-0AA0	--

Molded Case Circuit Breakers

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

Line protection

PU (UNIT, SET, M) = 1

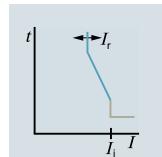
PS = 1 UNIT

PG = 1CB



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

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



Line protection, ETU340 ELISA

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

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	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

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 switching capacity C See "Overview", p. 2/8 and 2/9 (C)	SD	I_{cu} up to 150 kA at 415 V, extremely high switching 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	Article No. www.siemens.com/ product?Article No.	Basic price per PU	Article No. www.siemens.com/ product?Article No.	Basic price per PU

2

Line protection, ETU340 ELISA

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

Connection with box terminal

25	3VA2125-6HK36-0AA0	3VA2125-7HK36-0AA0	3VA2125-8HK36-0AA0
40	3VA2140-6HK36-0AA0	3VA2140-7HK36-0AA0	3VA2140-8HK36-0AA0
63	3VA2163-6HK36-0AA0	3VA2163-7HK36-0AA0	3VA2163-8HK36-0AA0
100	3VA2110-6HK36-0AA0	3VA2110-7HK36-0AA0	3VA2110-8HK36-0AA0

Connection with nut keeper kit

25	3VA2125-6HK32-0AA0	3VA2125-7HK32-0AA0	3VA2125-8HK32-0AA0
40	3VA2140-6HK32-0AA0	3VA2140-7HK32-0AA0	3VA2140-8HK32-0AA0
63	3VA2163-6HK32-0AA0	3VA2163-7HK32-0AA0	3VA2163-8HK32-0AA0
100	3VA2110-6HK32-0AA0	3VA2110-7HK32-0AA0	3VA2110-8HK32-0AA0
160	3VA2216-6HK32-0AA0	3VA2216-7HK32-0AA0	3VA2216-8HK32-0AA0
250	3VA2325-6HK32-0AA0	3VA2325-7HK32-0AA0	3VA2325-8HK32-0AA0
400	3VA2440-6HK32-0AA0	3VA2440-7HK32-0AA0	3VA2440-8HK32-0AA0
500	3VA2450-6HK32-0AA0	3VA2450-7HK32-0AA0	3VA2450-8HK32-0AA0
630	3VA2463-6HK32-0AA0	3VA2463-7HK32-0AA0	3VA2463-8HK32-0AA0
630	3VA2563-6HK32-0AA0	3VA2563-7HK32-0AA0	--
800	3VA2580-6HK32-0AA0	3VA2580-7HK32-0AA0	--
1000	3VA2510-6HK32-0AA0	3VA2510-7HK32-0AA0	--

Molded Case Circuit Breakers

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

Line protection

PU (UNIT, SET, M) = 1

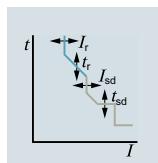
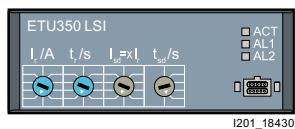
PS = 1 UNIT

PG = 1CB



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

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



Line and generator protection, ETU350 LSI

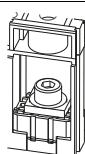
With adjustable overload protection I_r , adjustable delayed short-circuit protection I_{sd} and fixed instantaneous short-circuit protection I_i

$I_r \times \dots$

Connection with box terminal



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



Connection with nut keeper kit

3VA20	25	10 ... 25	1.5 ... 10	300	3VA2025-5HN32-0AA0
	40	16 ... 40	1.5 ... 10	480	3VA2040-5HN32-0AA0
	63	25 ... 63	1.5 ... 10	756	3VA2063-5HN32-0AA0
	100	40 ... 100	1.5 ... 10	1200	3VA2010-5HN32-0AA0
3VA21	25	10 ... 25	1.5 ... 10	300	3VA2125-5HN32-0AA0
	40	16 ... 40	1.5 ... 10	480	3VA2140-5HN32-0AA0
	63	25 ... 63	1.5 ... 10	756	3VA2163-5HN32-0AA0
	100	40 ... 100	1.5 ... 10	1200	3VA2110-5HN32-0AA0
	160	63 ... 160	1.5 ... 10	1600	3VA2116-5HN32-0AA0
3VA22	160	63 ... 160	1.5 ... 10	1920	3VA2216-5HN32-0AA0
	250	100 ... 250	1.5 ... 10	2500	3VA2225-5HN32-0AA0
3VA23	250	100 ... 250	1.5 ... 10	3000	3VA2325-5HN32-0AA0
	400	160 ... 400	1.5 ... 10	4000	3VA2340-5HN32-0AA0
3VA24	400	160 ... 400	1.5 ... 10	4800 ¹⁾	3VA2440-5HN32-0AA0
	630	250 ... 630	1.5 ... 9	5670	3VA2463-5HN32-0AA0
3VA25	630	250 ... 630	1.5 ... 10	7560	3VA2563-5HN32-0AA0
	800	320 ... 800	1.5 ... 10	8000	3VA2580-5HN32-0AA0
	1000	400 ... 1000	1.5 ... 10	10000	3VA2510-5HN32-0AA0

¹⁾ At breaking capacity L 4400 A

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 switching capacity C See "Overview", p. 2/8 and 2/9	(C)	SD	I_{cu} up to 150 kA at 415 V, extremely high switching 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 and generator protection, ETU350 LSI

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

Connection with box terminal

25	3VA2025-6HN36-0AA0	3VA2025-7HN36-0AA0	3VA2025-8HN36-0AA0
40	3VA2040-6HN36-0AA0	3VA2040-7HN36-0AA0	3VA2040-8HN36-0AA0
63	3VA2063-6HN36-0AA0	3VA2063-7HN36-0AA0	3VA2063-8HN36-0AA0
100	3VA2010-6HN36-0AA0	3VA2010-7HN36-0AA0	3VA2010-8HN36-0AA0
25	3VA2125-6HN36-0AA0	3VA2125-7HN36-0AA0	3VA2125-8HN36-0AA0
40	3VA2140-6HN36-0AA0	3VA2140-7HN36-0AA0	3VA2140-8HN36-0AA0
63	3VA2163-6HN36-0AA0	3VA2163-7HN36-0AA0	3VA2163-8HN36-0AA0
100	3VA2110-6HN36-0AA0	3VA2110-7HN36-0AA0	3VA2110-8HN36-0AA0
160	3VA2116-6HN36-0AA0	3VA2116-7HN36-0AA0	3VA2116-8HN36-0AA0

Connection with nut keeper kit

25	3VA2025-6HN32-0AA0	3VA2025-7HN32-0AA0	3VA2025-8HN32-0AA0
40	3VA2040-6HN32-0AA0	3VA2040-7HN32-0AA0	3VA2040-8HN32-0AA0
63	3VA2063-6HN32-0AA0	3VA2063-7HN32-0AA0	3VA2063-8HN32-0AA0
100	3VA2010-6HN32-0AA0	3VA2010-7HN32-0AA0	3VA2010-8HN32-0AA0
25	3VA2125-6HN32-0AA0	3VA2125-7HN32-0AA0	3VA2125-8HN32-0AA0
40	3VA2140-6HN32-0AA0	3VA2140-7HN32-0AA0	3VA2140-8HN32-0AA0
63	3VA2163-6HN32-0AA0	3VA2163-7HN32-0AA0	3VA2163-8HN32-0AA0
100	3VA2110-6HN32-0AA0	3VA2110-7HN32-0AA0	3VA2110-8HN32-0AA0
160	3VA2116-6HN32-0AA0	3VA2116-7HN32-0AA0	3VA2116-8HN32-0AA0
160	3VA2216-6HN32-0AA0	3VA2216-7HN32-0AA0	3VA2216-8HN32-0AA0
250	3VA2225-6HN32-0AA0	3VA2225-7HN32-0AA0	3VA2225-8HN32-0AA0
250	3VA2325-6HN32-0AA0	3VA2325-7HN32-0AA0	3VA2325-8HN32-0AA0
400	3VA2340-6HN32-0AA0	3VA2340-7HN32-0AA0	3VA2340-8HN32-0AA0
400	3VA2440-6HN32-0AA0	3VA2440-7HN32-0AA0	3VA2440-8HN32-0AA0
630	3VA2463-6HN32-0AA0	3VA2463-7HN32-0AA0	3VA2463-8HN32-0AA0
630	3VA2563-6HN32-0AA0	3VA2563-7HN32-0AA0	--
800	3VA2580-6HN32-0AA0	3VA2580-7HN32-0AA0	--
1000	3VA2510-6HN32-0AA0	3VA2510-7HN32-0AA0	--

Molded Case Circuit Breakers

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

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

S function (short-time delayed short-circuit protection "S")
 I_{sd}

Operating current of the instantaneous short-circuit protection "I"
 I_i

SD

I_{cu} up to 55 kA at 415 V, medium breaking capacity M
See "Overview", p. 2/8 and 2/9

(M)

Article No.
www.siemens.com/product

Basic price per PU
Article No.

A

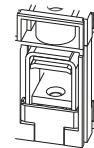
A

A

A

d

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



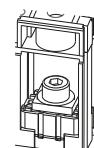
Line and generator protection, with display, ETU550 LSI

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

Connection with box terminal

3VA20	25	10 ... 25	15 ... 250	38 ... 300	3VA2025-5JP36-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2040-5JP36-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2063-5JP36-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2010-5JP36-0AA0

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



Connection with nut keeper kit

3VA20	25	10 ... 25	15 ... 250	38 ... 300	3VA2025-5JP32-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2040-5JP32-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2063-5JP32-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2010-5JP32-0AA0

3VA21	25	10 ... 25	15 ... 250	38 ... 300	3VA2125-5JP32-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2140-5JP32-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2163-5JP32-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2110-5JP32-0AA0
	160	63 ... 160	96 ... 1600	240 ... 1600	3VA2116-5JP32-0AA0

3VA22	160	63 ... 160	96 ... 1600	240 ... 1920	3VA2216-5JP32-0AA0
	250	100 ... 250	150 ... 2500	375 ... 2500	3VA2225-5JP32-0AA0

3VA23	250	100 ... 250	150 ... 2500	375 ... 3000	3VA2325-5JP32-0AA0
	400	160 ... 400	240 ... 4000	600 ... 4000	3VA2340-5JP32-0AA0

3VA24	400	160 ... 400	240 ... 4000	600 ... 6000 ¹⁾	3VA2440-5JP32-0AA0
	500	200 ... 500	300 ... 5000	750 ... 7000	3VA2450-5JP32-0AA0
	630	250 ... 630	378 ... 5670	945 ... 5670	3VA2463-5JP32-0AA0

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

¹⁾ At breaking capacity L 4400 A

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 switching capacity C See "Overview", p. 2/8 and 2/9	(C)	SD	I_{cu} up to 150 kA at 415 V, extremely high switching 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 and generator protection, with display, ETU550 LSI

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

Connection with box terminal

25	3VA2025-6JP36-0AA0	3VA2025-7JP36-0AA0	3VA2025-8JP36-0AA0
40	3VA2040-6JP36-0AA0	3VA2040-7JP36-0AA0	3VA2040-8JP36-0AA0
63	3VA2063-6JP36-0AA0	3VA2063-7JP36-0AA0	3VA2063-8JP36-0AA0
100	3VA2010-6JP36-0AA0	3VA2010-7JP36-0AA0	3VA2010-8JP36-0AA0
25	3VA2125-6JP36-0AA0	3VA2125-7JP36-0AA0	3VA2125-8JP36-0AA0
40	3VA2140-6JP36-0AA0	3VA2140-7JP36-0AA0	3VA2140-8JP36-0AA0
63	3VA2163-6JP36-0AA0	3VA2163-7JP36-0AA0	3VA2163-8JP36-0AA0
100	3VA2110-6JP36-0AA0	3VA2110-7JP36-0AA0	3VA2110-8JP36-0AA0
160	3VA2116-6JP36-0AA0	3VA2116-7JP36-0AA0	3VA2116-8JP36-0AA0

Connection with nut keeper kit

25	3VA2025-6JP32-0AA0	3VA2025-7JP32-0AA0	3VA2025-8JP32-0AA0
40	3VA2040-6JP32-0AA0	3VA2040-7JP32-0AA0	3VA2040-8JP32-0AA0
63	3VA2063-6JP32-0AA0	3VA2063-7JP32-0AA0	3VA2063-8JP32-0AA0
100	3VA2010-6JP32-0AA0	3VA2010-7JP32-0AA0	3VA2010-8JP32-0AA0
25	3VA2125-6JP32-0AA0	3VA2125-7JP32-0AA0	3VA2125-8JP32-0AA0
40	3VA2140-6JP32-0AA0	3VA2140-7JP32-0AA0	3VA2140-8JP32-0AA0
63	3VA2163-6JP32-0AA0	3VA2163-7JP32-0AA0	3VA2163-8JP32-0AA0
100	3VA2110-6JP32-0AA0	3VA2110-7JP32-0AA0	3VA2110-8JP32-0AA0
160	3VA2116-6JP32-0AA0	3VA2116-7JP32-0AA0	3VA2116-8JP32-0AA0
160	3VA2216-6JP32-0AA0	3VA2216-7JP32-0AA0	3VA2216-8JP32-0AA0
250	3VA2225-6JP32-0AA0	3VA2225-7JP32-0AA0	3VA2225-8JP32-0AA0
250	3VA2325-6JP32-0AA0	3VA2325-7JP32-0AA0	3VA2325-8JP32-0AA0
400	3VA2340-6JP32-0AA0	3VA2340-7JP32-0AA0	3VA2340-8JP32-0AA0
400	3VA2440-6JP32-0AA0	3VA2440-7JP32-0AA0	3VA2440-8JP32-0AA0
500	3VA2450-6JP32-0AA0	3VA2450-7JP32-0AA0	--
630	3VA2463-6JP32-0AA0	3VA2463-7JP32-0AA0	3VA2463-8JP32-0AA0
630	3VA2563-6JP32-0AA0	3VA2563-7JP32-0AA0	--
800	3VA2580-6JP32-0AA0	3VA2580-7JP32-0AA0	--
1000	3VA2510-6JP32-0AA0	3VA2510-7JP32-0AA0	--

Molded Case Circuit Breakers

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

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type
I_n

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

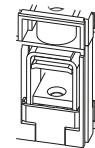
(M)

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



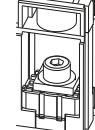
Line and generator protection, with display, ETU560 LSIG

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 See "Overview", p. 2/8 and 2/9	(H)	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C See "Overview", p. 2/8 and 2/9	(C)	SD	I_{cu} up to 150 kA at 415 V, extremely high switching 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 and generator protection, with display, ETU560 LSIG

With adjustable overload protection I_f , adjustable delayed short-circuit protection I_{sd} , adjustable instantaneous short-circuit protection I_t 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



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

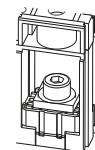
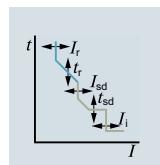


Line and generator protection, with display, with metering function, ETU850 LSI

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

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

With 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



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

S function (short-time delayed short-circuit protection "S")
 I_{sd}

Operating current of the instantaneous short-circuit protection "I"
 I_i

SD

I_{cu} up to 55 kA at 415 V, medium breaking capacity M (M)
See "Overview", p. 2/8 and 2/9

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

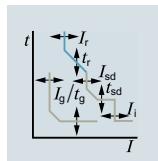


Line and generator protection, with display, with metering function, ETU860 LSIG

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

Connection with box terminal

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



Connection with nut keeper kit

3VA20	25	10 ... 25	15 ... 250	38 ... 300	3VA2025-5KQ32-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2040-5KQ32-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2063-5KQ32-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2010-5KQ32-0AA0
3VA21	25	10 ... 25	15 ... 250	38 ... 300	3VA2125-5KQ32-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2140-5KQ32-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2163-5KQ32-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2110-5KQ32-0AA0
	160	63 ... 160	96 ... 1600	240 ... 1600	3VA2116-5KQ32-0AA0
3VA22	160	63 ... 160	96 ... 1600	240 ... 1920	3VA2216-5KQ32-0AA0
	250	100 ... 250	150 ... 2500	375 ... 2500	3VA2225-5KQ32-0AA0
3VA23	250	100 ... 250	150 ... 2500	375 ... 3000	3VA2325-5KQ32-0AA0
	400	160 ... 400	240 ... 4000	600 ... 4000	3VA2340-5KQ32-0AA0
3VA24	400	160 ... 400	240 ... 4000	600 ... 6000 ¹⁾	3VA2440-5KQ32-0AA0
	500	200 ... 500	300 ... 5000	750 ... 7000	3VA2450-5KQ32-0AA0
	630	250 ... 630	378 ... 5670	945 ... 5670	3VA2463-5KQ32-0AA0
3VA25	630	250 ... 630	378 ... 6300	945 ... 7560	3VA2563-5KQ32-0AA0
	800	320 ... 800	480 ... 8000	1200 ... 8000	3VA2580-5KQ32-0AA0
	1000	400 ... 1000	600 ... 10000	1500 ... 10000	3VA2510-5KQ32-0AA0

¹⁾ At breaking capacity L 4400 A

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 switching capacity C See "Overview", p. 2/8 and 2/9	(C)	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L See "Overview", p. 2/8 and 2/9	(L)
A	d			d			d		

Line and generator protection, with display, with metering function, ETU860 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	3VA2025-6KQ36-0AA0	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
250	3VA2216-6KQ32-0AA0	3VA2216-7KQ32-0AA0	3VA2216-8KQ32-0AA0
250	3VA2225-6KQ32-0AA0	3VA2225-7KQ32-0AA0	3VA2225-8KQ32-0AA0
400	3VA2325-6KQ32-0AA0	3VA2325-7KQ32-0AA0	3VA2325-8KQ32-0AA0
400	3VA2340-6KQ32-0AA0	3VA2340-7KQ32-0AA0	3VA2340-8KQ32-0AA0
400	3VA2440-6KQ32-0AA0	3VA2440-7KQ32-0AA0	3VA2440-8KQ32-0AA0
500	3VA2450-6KQ32-0AA0	3VA2450-7KQ32-0AA0	--
630	3VA2463-6KQ32-0AA0	3VA2463-7KQ32-0AA0	3VA2463-8KQ32-0AA0
630	3VA2563-6KQ32-0AA0	3VA2563-7KQ32-0AA0	--
800	3VA2580-6KQ32-0AA0	3VA2580-7KQ32-0AA0	--
1000	3VA2510-6KQ32-0AA0	3VA2510-7KQ32-0AA0	--

Molded Case Circuit Breakers

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

Line protection

PU (UNIT, SET, M) = 1

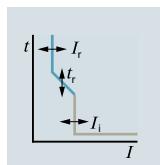
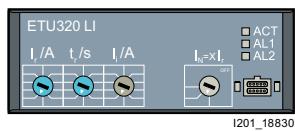
PS = 1 UNIT

PG = 1CB



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

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



Line protection, ETU320 LI

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

Connection with box terminal

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

Connection with nut keeper kit

3VA20	25	10 ... 25	38 ... 300	3VA2025-5HL42-0AA0
	40	16 ... 40	60 ... 480	3VA2040-5HL42-0AA0
	63	25 ... 63	95 ... 756	3VA2063-5HL42-0AA0
	100	40 ... 100	150 ... 1200	3VA2010-5HL42-0AA0
3VA21	25	10 ... 25	38 ... 300	3VA2125-5HL42-0AA0
	40	16 ... 40	60 ... 480	3VA2140-5HL42-0AA0
	63	25 ... 63	95 ... 756	3VA2163-5HL42-0AA0
	100	40 ... 100	150 ... 1200	3VA2110-5HL42-0AA0
	160	63 ... 160	240 ... 1600	3VA2116-5HL42-0AA0
3VA22	160	63 ... 160	240 ... 1920	3VA2216-5HL42-0AA0
	250	100 ... 250	375 ... 2500	3VA2225-5HL42-0AA0
3VA23	250	100 ... 250	375 ... 3000	3VA2325-5HL42-0AA0
	400	160 ... 400	600 ... 4000	3VA2340-5HL42-0AA0
3VA24	400	160 ... 400	600 ... 4800 ¹⁾	3VA2440-5HL42-0AA0
	630	250 ... 630	945 ... 5670	3VA2463-5HL42-0AA0
3VA25	630	250 ... 630	945 ... 7560	3VA2563-5HL42-0AA0
	800	320 ... 800	1200 ... 8000	3VA2580-5HL42-0AA0
	1000	400 ... 1000	1500 ... 10000	3VA2510-5HL42-0AA0

¹⁾ At breaking capacity L 4400 A

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 switching capacity C See "Overview", p. 2/8 and 2/9	(C)	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L See "Overview", p. 2/8 and 2/9	(L)
A	d			d			d		

Line protection, ETU320 LI

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

Connection with box terminal									
25		3VA2025-6HL46-0AA0		3VA2025-7HL46-0AA0		3VA2025-8HL46-0AA0			
40		3VA2040-6HL46-0AA0		3VA2040-7HL46-0AA0		3VA2040-8HL46-0AA0			
63		3VA2063-6HL46-0AA0		3VA2063-7HL46-0AA0		3VA2063-8HL46-0AA0			
100		3VA2010-6HL46-0AA0		3VA2010-7HL46-0AA0		3VA2010-8HL46-0AA0			
25		3VA2125-6HL46-0AA0		3VA2125-7HL46-0AA0		3VA2125-8HL46-0AA0			
40		3VA2140-6HL46-0AA0		3VA2140-7HL46-0AA0		3VA2140-8HL46-0AA0			
63		3VA2163-6HL46-0AA0		3VA2163-7HL46-0AA0		3VA2163-8HL46-0AA0			
100		3VA2110-6HL46-0AA0		3VA2110-7HL46-0AA0		3VA2110-8HL46-0AA0			
160		3VA2116-6HL46-0AA0		3VA2116-7HL46-0AA0		3VA2116-8HL46-0AA0			
Connection with nut keeper kit									
25		3VA2025-6HL42-0AA0		3VA2025-7HL42-0AA0		3VA2025-8HL42-0AA0			
40		3VA2040-6HL42-0AA0		3VA2040-7HL42-0AA0		3VA2040-8HL42-0AA0			
63		3VA2063-6HL42-0AA0		3VA2063-7HL42-0AA0		3VA2063-8HL42-0AA0			
100		3VA2010-6HL42-0AA0		3VA2010-7HL42-0AA0		3VA2010-8HL42-0AA0			
25		3VA2125-6HL42-0AA0		3VA2125-7HL42-0AA0		3VA2125-8HL42-0AA0			
40		3VA2140-6HL42-0AA0		3VA2140-7HL42-0AA0		3VA2140-8HL42-0AA0			
63		3VA2163-6HL42-0AA0		3VA2163-7HL42-0AA0		3VA2163-8HL42-0AA0			
100		3VA2110-6HL42-0AA0		3VA2110-7HL42-0AA0		3VA2110-8HL42-0AA0			
160		3VA2116-6HL42-0AA0		3VA2116-7HL42-0AA0		3VA2116-8HL42-0AA0			
250		3VA2225-6HL42-0AA0		3VA2225-7HL42-0AA0		3VA2225-8HL42-0AA0			
250		3VA2225-6HL42-0AA0		3VA2225-7HL42-0AA0		3VA2225-8HL42-0AA0			
250		3VA2325-6HL42-0AA0		3VA2325-7HL42-0AA0		3VA2325-8HL42-0AA0			
400		3VA2340-6HL42-0AA0		3VA2340-7HL42-0AA0		3VA2340-8HL42-0AA0			
400		3VA2440-6HL42-0AA0		3VA2440-7HL42-0AA0		3VA2440-8HL42-0AA0			
630		3VA2463-6HL42-0AA0		3VA2463-7HL42-0AA0		3VA2463-8HL42-0AA0			
630		3VA2563-6HL42-0AA0		3VA2563-7HL42-0AA0		--			
800		3VA2580-6HL42-0AA0		3VA2580-7HL42-0AA0		--			
1000		3VA2510-6HL42-0AA0		3VA2510-7HL42-0AA0		--			

Molded Case Circuit Breakers

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

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

Operating current of the instantaneous short-circuit protection "I"
 I_i

Ground-fault protection G
 I_g

SD

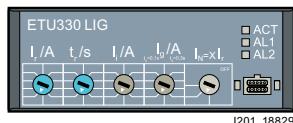
d

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.

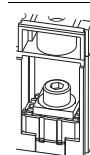
Basic price per PU

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



Connection with box terminal

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



Connection with nut keeper kit

3VA20	25	10 ... 25	38 ... 300	15 ... 25	3VA2025-5HM42-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	3VA2040-5HM42-0AA0
	63	25 ... 63	95 ... 756	16 ... 63	3VA2063-5HM42-0AA0
	100	40 ... 100	150 ... 1200	20 ... 100	3VA2010-5HM42-0AA0
3VA21	25	10 ... 25	38 ... 300	15 ... 25	3VA2125-5HM42-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	3VA2140-5HM42-0AA0
	63	25 ... 63	95 ... 756	16 ... 63	3VA2163-5HM42-0AA0
	100	40 ... 100	150 ... 1200	20 ... 100	3VA2110-5HM42-0AA0
	160	63 ... 160	240 ... 1600	32 ... 160	3VA2116-5HM42-0AA0
3VA22	160	63 ... 160	240 ... 1920	32 ... 160	3VA2216-5HM42-0AA0
	250	100 ... 250	375 ... 2500	50 ... 250	3VA2225-5HM42-0AA0
3VA23	250	100 ... 250	375 ... 3000	50 ... 250	3VA2325-5HM42-0AA0
	400	160 ... 400	600 ... 4000	80 ... 400	3VA2340-5HM42-0AA0
3VA24	400	160 ... 400	600 ... 4800 ¹⁾	80 ... 400	3VA2440-5HM42-0AA0
	630	250 ... 630	945 ... 5670	126 ... 630	3VA2463-5HM42-0AA0
3VA25	630	250 ... 630	945 ... 7560	126 ... 630	3VA2563-5HM42-0AA0
	800	320 ... 800	1200 ... 8000	160 ... 800	3VA2580-5HM42-0AA0
	1000	400 ... 1000	1500 ... 10000	200 ... 1000	3VA2510-5HM42-0AA0

¹⁾ At breaking capacity L 4400 A

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 	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C See "Overview", p. 2/8 and 2/9 	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L See "Overview", p. 2/8 and 2/9 
A	d		d		d	

Line protection, ETU330 LIG

With adjustable overload protection I_p , 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	
250		3VA2225-6HM42-0AA0		3VA2225-7HM42-0AA0		3VA2225-8HM42-0AA0	
250		3VA2225-6HM42-0AA0		3VA2225-7HM42-0AA0		3VA2225-8HM42-0AA0	
400		3VA2325-6HM42-0AA0		3VA2325-7HM42-0AA0		3VA2325-8HM42-0AA0	
400		3VA2340-6HM42-0AA0		3VA2340-7HM42-0AA0		3VA2340-8HM42-0AA0	
400		3VA2440-6HM42-0AA0		3VA2440-7HM42-0AA0		3VA2440-8HM42-0AA0	
630		3VA2463-6HM42-0AA0		3VA2463-7HM42-0AA0		3VA2463-8HM42-0AA0	
630		3VA2563-6HM42-0AA0		3VA2563-7HM42-0AA0		--	
800		3VA2580-6HM42-0AA0		3VA2580-7HM42-0AA0		--	
1000		3VA2510-6HM42-0AA0		3VA2510-7HM42-0AA0		--	

Molded Case Circuit Breakers

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

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

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

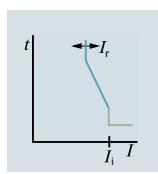
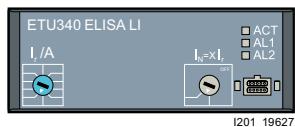
A

A

A

d

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



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	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

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 switching capacity C See "Overview", p. 2/8 and 2/9 (C)	SD	I_{cu} up to 150 kA at 415 V, extremely high switching 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	Article No. www.siemens.com/product ?Article No.	Basic price per PU	Article No. www.siemens.com/product ?Article No.	Basic price per PU

Line protection, ETU340 ELISA

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

Connection with box terminal						
25		3VA2125-6HK46-0AA0		3VA2125-7HK46-0AA0		3VA2125-8HK46-0AA0
40		3VA2140-6HK46-0AA0		3VA2140-7HK46-0AA0		3VA2140-8HK46-0AA0
63		3VA2163-6HK46-0AA0		3VA2163-7HK46-0AA0		3VA2163-8HK46-0AA0
100		3VA2110-6HK46-0AA0		3VA2110-7HK46-0AA0		3VA2110-8HK46-0AA0
Connection with nut keeper kit						
25		3VA2125-6HK42-0AA0		3VA2125-7HK42-0AA0		3VA2125-8HK42-0AA0
40		3VA2140-6HK42-0AA0		3VA2140-7HK42-0AA0		3VA2140-8HK42-0AA0
63		3VA2163-6HK42-0AA0		3VA2163-7HK42-0AA0		3VA2163-8HK42-0AA0
100		3VA2110-6HK42-0AA0		3VA2110-7HK42-0AA0		3VA2110-8HK42-0AA0
160		3VA2216-6HK42-0AA0		3VA2216-7HK42-0AA0		3VA2216-8HK42-0AA0
250		3VA2325-6HK42-0AA0		3VA2325-7HK42-0AA0		3VA2325-8HK42-0AA0
400		3VA2440-6HK42-0AA0		3VA2440-7HK42-0AA0		3VA2440-8HK42-0AA0
500		3VA2450-6HK42-0AA0		3VA2450-7HK42-0AA0		3VA2450-8HK42-0AA0
630		3VA2463-6HK42-0AA0		3VA2463-7HK42-0AA0		3VA2463-8HK42-0AA0
630		3VA2563-6HK42-0AA0		3VA2563-7HK42-0AA0	--	--
800		3VA2580-6HK42-0AA0		3VA2580-7HK42-0AA0	--	--
1000		3VA2510-6HK42-0AA0		3VA2510-7HK42-0AA0	--	--

Molded Case Circuit Breakers

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

Line protection

PU (UNIT, SET, M) = 1

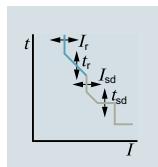
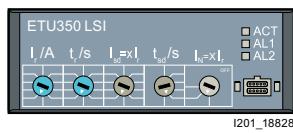
PS = 1 UNIT

PG = 1CB



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

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



Line and generator protection, ETU350 LSI

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

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

3VA20	25	10 ... 25	1.5 ... 10	300	3VA2025-5HN42-0AA0
	40	16 ... 40	1.5 ... 10	480	3VA2040-5HN42-0AA0
	63	25 ... 63	1.5 ... 10	756	3VA2063-5HN42-0AA0
	100	40 ... 100	1.5 ... 10	1200	3VA2010-5HN42-0AA0
3VA21	25	10 ... 25	1.5 ... 10	300	3VA2125-5HN42-0AA0
	40	16 ... 40	1.5 ... 10	480	3VA2140-5HN42-0AA0
	63	25 ... 63	1.5 ... 10	756	3VA2163-5HN42-0AA0
	100	40 ... 100	1.5 ... 10	1200	3VA2110-5HN42-0AA0
	160	63 ... 160	1.5 ... 10	1600	3VA2116-5HN42-0AA0
3VA22	160	63 ... 160	1.5 ... 10	1920	3VA2216-5HN42-0AA0
	250	100 ... 250	1.5 ... 10	2500	3VA2225-5HN42-0AA0
3VA23	250	100 ... 250	1.5 ... 10	3000	3VA2325-5HN42-0AA0
	400	160 ... 400	1.5 ... 10	4000	3VA2340-5HN42-0AA0
3VA24	400	160 ... 400	1.5 ... 10	4800 ¹⁾	3VA2440-5HN42-0AA0
	630	250 ... 630	1.5 ... 9	5670	3VA2463-5HN42-0AA0
3VA25	630	250 ... 630	1.5 ... 10	7560	3VA2563-5HN42-0AA0
	800	320 ... 800	1.5 ... 10	8000	3VA2580-5HN42-0AA0
	1000	400 ... 1000	1.5 ... 10	10000	3VA2510-5HN42-0AA0

¹⁾ At breaking capacity L 4400 A

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 switching capacity C See "Overview", p. 2/8 and 2/9	(C)	SD	I_{cu} up to 150 kA at 415 V, extremely high switching 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 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_{si} , with neutral protection against overload and short circuit 0%, 50% or 100% (50% only from $I_n \geq 100$ A)

Connection with box terminal

25	3VA2025-6HN46-0AA0	3VA2025-7HN46-0AA0	3VA2025-8HN46-0AA0
40	3VA2040-6HN46-0AA0	3VA2040-7HN46-0AA0	3VA2040-8HN46-0AA0
63	3VA2063-6HN46-0AA0	3VA2063-7HN46-0AA0	3VA2063-8HN46-0AA0
100	3VA2010-6HN46-0AA0	3VA2010-7HN46-0AA0	3VA2010-8HN46-0AA0
25	3VA2125-6HN46-0AA0	3VA2125-7HN46-0AA0	3VA2125-8HN46-0AA0
40	3VA2140-6HN46-0AA0	3VA2140-7HN46-0AA0	3VA2140-8HN46-0AA0
63	3VA2163-6HN46-0AA0	3VA2163-7HN46-0AA0	3VA2163-8HN46-0AA0
100	3VA2110-6HN46-0AA0	3VA2110-7HN46-0AA0	3VA2110-8HN46-0AA0
160	3VA2116-6HN46-0AA0	3VA2116-7HN46-0AA0	3VA2116-8HN46-0AA0

Connection with nut keeper kit

25	3VA2025-6HN42-0AA0	3VA2025-7HN42-0AA0	3VA2025-8HN42-0AA0
40	3VA2040-6HN42-0AA0	3VA2040-7HN42-0AA0	3VA2040-8HN42-0AA0
63	3VA2063-6HN42-0AA0	3VA2063-7HN42-0AA0	3VA2063-8HN42-0AA0
100	3VA2010-6HN42-0AA0	3VA2010-7HN42-0AA0	3VA2010-8HN42-0AA0
25	3VA2125-6HN42-0AA0	3VA2125-7HN42-0AA0	3VA2125-8HN42-0AA0
40	3VA2140-6HN42-0AA0	3VA2140-7HN42-0AA0	3VA2140-8HN42-0AA0
63	3VA2163-6HN42-0AA0	3VA2163-7HN42-0AA0	3VA2163-8HN42-0AA0
100	3VA2110-6HN42-0AA0	3VA2110-7HN42-0AA0	3VA2110-8HN42-0AA0
160	3VA2116-6HN42-0AA0	3VA2116-7HN42-0AA0	3VA2116-8HN42-0AA0
160	3VA2216-6HN42-0AA0	3VA2216-7HN42-0AA0	3VA2216-8HN42-0AA0
250	3VA2225-6HN42-0AA0	3VA2225-7HN42-0AA0	3VA2225-8HN42-0AA0
250	3VA2325-6HN42-0AA0	3VA2325-7HN42-0AA0	3VA2325-8HN42-0AA0
400	3VA2340-6HN42-0AA0	3VA2340-7HN42-0AA0	3VA2340-8HN42-0AA0
400	3VA2440-6HN42-0AA0	3VA2440-7HN42-0AA0	3VA2440-8HN42-0AA0
630	3VA2463-6HN42-0AA0	3VA2463-7HN42-0AA0	3VA2463-8HN42-0AA0
630	3VA2563-6HN42-0AA0	3VA2563-7HN42-0AA0	--
800	3VA2580-6HN42-0AA0	3VA2580-7HN42-0AA0	--
1000	3VA2510-6HN42-0AA0	3VA2510-7HN42-0AA0	--

Molded Case Circuit Breakers

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

Line protection

PU (UNIT, SET, M) = 1

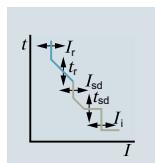
PS = 1 UNIT

PG = 1CB



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

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



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

3VA20	25	10 ... 25	15 ... 250	38 ... 300	3VA2025-5JP42-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2040-5JP42-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2063-5JP42-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2010-5JP42-0AA0
3VA21	25	10 ... 25	15 ... 250	38 ... 300	3VA2125-5JP42-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2140-5JP42-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2163-5JP42-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2110-5JP42-0AA0
	160	63 ... 160	96 ... 1600	240 ... 1600	3VA2116-5JP42-0AA0
3VA22	160	63 ... 160	96 ... 1600	240 ... 1920	3VA2216-5JP42-0AA0
	250	100 ... 250	150 ... 2500	375 ... 2500	3VA2225-5JP42-0AA0
3VA23	250	100 ... 250	150 ... 2500	375 ... 3000	3VA2325-5JP42-0AA0
	400	160 ... 400	240 ... 4000	600 ... 4000	3VA2340-5JP42-0AA0
3VA24	400	160 ... 400	240 ... 4000	600 ... 6000 ¹⁾	3VA2440-5JP42-0AA0
	500	200 ... 500	300 ... 5000	750 ... 7000	3VA2450-5JP42-0AA0
	630	250 ... 630	378 ... 5670	945 ... 5670	3VA2463-5JP42-0AA0
3VA25	630	250 ... 630	378 ... 6300	945 ... 7560	3VA2563-5JP42-0AA0
	800	320 ... 800	480 ... 8000	1200 ... 8000	3VA2580-5JP42-0AA0
	1000	400 ... 1000	600 ... 10000	1500 ... 10000	3VA2510-5JP42-0AA0

¹⁾ At breaking capacity L 4400 A

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 switching capacity C See "Overview", p. 2/8 and 2/9	(C)	SD	I_{cu} up to 150 kA at 415 V, extremely high switching 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 and generator protection, with display, ETU550 LSI

With adjustable overload protection I_p , 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						
250	3VA2225-6JP42-0AA0	3VA2225-7JP42-0AA0	3VA2225-8JP42-0AA0						
250	3VA2325-6JP42-0AA0	3VA2325-7JP42-0AA0	3VA2325-8JP42-0AA0						
400	3VA2340-6JP42-0AA0	3VA2340-7JP42-0AA0	3VA2340-8JP42-0AA0						
400	3VA2440-6JP42-0AA0	3VA2440-7JP42-0AA0	3VA2440-8JP42-0AA0						
500	3VA2450-6JP42-0AA0	3VA2450-7JP42-0AA0	--						
630	3VA2463-6JP42-0AA0	3VA2463-7JP42-0AA0	3VA2463-8JP42-0AA0						
630	3VA2563-6JP42-0AA0	3VA2563-7JP42-0AA0	--						
800	3VA2580-6JP42-0AA0	3VA2580-7JP42-0AA0	--						
1000	3VA2510-6JP42-0AA0	3VA2510-7JP42-0AA0	--						

Molded Case Circuit Breakers

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

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



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



Line and generator protection, with display, ETU560 LSIG

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

Connection with box terminal

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

Connection with nut keeper kit

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

¹⁾ At breaking capacity L 4400 A

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 switching capacity C See "Overview", p. 2/8 and 2/9	(C)	SD	I_{cu} up to 150 kA at 415 V, extremely high switching capacity L See "Overview", p. 2/8 and 2/9	(L)
A	d			d			d		

Line and generator protection, with display, ETU560 LSIG

With adjustable overload protection I_p , 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

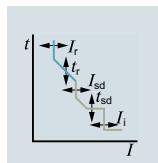
PS = 1 UNIT

PG = 1CB



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



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

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

Connection with box terminal

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

Connection with nut keeper kit

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

¹⁾ At breaking capacity L 4400 A

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 switching capacity C See "Overview", p. 2/8 and 2/9	(C)	SD	I_{cu} up to 150 kA at 415 V, extremely high switching 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 and generator protection, with display, with metering function, ETU850 LSI

With adjustable overload protection I_{op} , adjustable delayed short-circuit protection I_{sd} and adjustable instantaneous short-circuit protection I_{in} , 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



Connection technology

Type

Rated current
 I_n

Current setting of the inverse-time delayed overload protection "L"
 I_r

S function (short-time delayed short-circuit protection "S")
 I_{sd}

Operating current of the instantaneous short-circuit protection "I"
 I_i

SD

I_{cu} up to 55 kA at 415 V, medium breaking capacity M
See "Overview", p. 2/8 and 2/9

Article No.
www.siemens.com/product

Basic price per PU

A

A

A

A

d

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



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

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

Connection with box terminal

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

Connection with nut keeper kit



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

¹⁾ At breaking capacity L 4400 A

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 switching capacity C See "Overview", p. 2/8 and 2/9	(C)	SD	I_{cu} up to 150 kA at 415 V, extremely high switching 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 and generator protection, with display, with metering function, ETU860 LSIG

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

Connection with box terminal

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

Connection with nut keeper kit

25	3VA2025-6KQ42-0AA0	3VA2025-7KQ42-0AA0	3VA2025-8KQ42-0AA0
40	3VA2040-6KQ42-0AA0	3VA2040-7KQ42-0AA0	3VA2040-8KQ42-0AA0
63	3VA2063-6KQ42-0AA0	3VA2063-7KQ42-0AA0	3VA2063-8KQ42-0AA0
100	3VA2010-6KQ42-0AA0	3VA2010-7KQ42-0AA0	3VA2010-8KQ42-0AA0
25	3VA2125-6KQ42-0AA0	3VA2125-7KQ42-0AA0	3VA2125-8KQ42-0AA0
40	3VA2140-6KQ42-0AA0	3VA2140-7KQ42-0AA0	3VA2140-8KQ42-0AA0
63	3VA2163-6KQ42-0AA0	3VA2163-7KQ42-0AA0	3VA2163-8KQ42-0AA0
100	3VA2110-6KQ42-0AA0	3VA2110-7KQ42-0AA0	3VA2110-8KQ42-0AA0
160	3VA2116-6KQ42-0AA0	3VA2116-7KQ42-0AA0	3VA2116-8KQ42-0AA0
160	3VA2216-6KQ42-0AA0	3VA2216-7KQ42-0AA0	3VA2216-8KQ42-0AA0
250	3VA2225-6KQ42-0AA0	3VA2225-7KQ42-0AA0	3VA2225-8KQ42-0AA0
250	3VA2325-6KQ42-0AA0	3VA2325-7KQ42-0AA0	3VA2325-8KQ42-0AA0
400	3VA2340-6KQ42-0AA0	3VA2340-7KQ42-0AA0	3VA2340-8KQ42-0AA0
400	3VA2440-6KQ42-0AA0	3VA2440-7KQ42-0AA0	3VA2440-8KQ42-0AA0
500	3VA2450-6KQ42-0AA0	3VA2450-7KQ42-0AA0	--
630	3VA2463-6KQ42-0AA0	3VA2463-7KQ42-0AA0	3VA2463-8KQ42-0AA0
630	3VA2563-6KQ42-0AA0	3VA2563-7KQ42-0AA0	--
800	3VA2580-6KQ42-0AA0	3VA2580-7KQ42-0AA0	--
1000	3VA2510-6KQ42-0AA0	3VA2510-7KQ42-0AA0	--

Molded Case Circuit Breakers

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

Motor and starter protection

PU (UNIT, SET, M) = 1

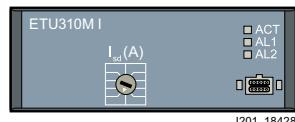
PS = 1 UNIT

PG = 1CB

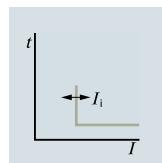


Connection technology	Type	Rated current I_n	Current setting of the inverse-time delayed overload protection "L" I_r	S function (short-time delayed short-circuit protection "S") I_{sd}	Operating current of the instantaneous short-circuit protection "I" I_i	SD	I_{cu} up to 55 kA at 415 V, medium breaking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

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

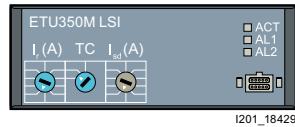


Starter protection, ETU310M I With adjustable short-circuit protection I_i					
Connection with box terminal					
3VA21	25	--	--	75 ... 375	--
	40	--	--	120 ... 600	--
	63	--	--	189 ... 945	--
	100	--	--	300 ... 1500	--



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

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



Motor protection, ETU350M LSI With adjustable overload protection I_r (delay adjustable via trip class T _C (10A, 10/10E, 20/20E)), adjustable delayed short-circuit protection I_{sd} , and fixed instantaneous short-circuit protection I_i					
		$I_r \times \dots$	$I_{sd} \times \dots$	I_i	
3VA21	25	10 ... 25	3 ... 15	375	3VA2125-5MN36-0AA0
	40	16 ... 40	3 ... 15	600	3VA2140-5MN36-0AA0
	63	25 ... 63	3 ... 15	945	3VA2163-5MN36-0AA0
	100	40 ... 100	3 ... 15	1500	3VA2110-5MN36-0AA0
Connection with nut keeper kit					
3VA21	25	10 ... 25	3 ... 15	375	3VA2125-5MN32-0AA0
	40	16 ... 40	3 ... 15	600	3VA2140-5MN32-0AA0
	63	25 ... 63	3 ... 15	945	3VA2163-5MN32-0AA0
	100	40 ... 100	3 ... 15	1500	3VA2110-5MN32-0AA0
3VA22	160	63 ... 160	3 ... 15	2400	3VA2216-5MN32-0AA0
	200	80 ... 200	3 ... 15	3000	3VA2220-5MN32-0AA0
3VA23	250	100 ... 250	3 ... 15	3750	3VA2325-5MN32-0AA0
3VA24	400	160 ... 400	3 ... 15	6000	3VA2440-5MN32-0AA0
	500	200 ... 500	3 ... 15	7500	3VA2450-5MN32-0AA0
3VA25	630	250 ... 630	3 ... 15	9450	3VA2563-5MN32-0AA0
	800	320 ... 800	3 ... 12	9600	3VA2580-5MN32-0AA0

Molded Case Circuit Breakers

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

Motor 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 Article No. www.siemens.com/product ?Article No.	SD	I_{cu} up to 110 kA at 415 V, very high switching capacity C See "Overview", p. 2/8 and 2/9 Article No. www.siemens.com/product ?Article No.
A	d		d	

2

Starter protection, ETU310M I

With adjustable short-circuit protection I_i

Connection with box terminal

25	--
40	--
63	--
100	--

Connection with box terminal

3VA2125-7MS36-0AA0
3VA2140-7MS36-0AA0
3VA2163-7MS36-0AA0
3VA2110-7MS36-0AA0

Connection with nut keeper kit

25	--
40	--
63	--
100	--

Connection with nut keeper kit

3VA2125-7MS32-0AA0
3VA2140-7MS32-0AA0
3VA2163-7MS32-0AA0
3VA2110-7MS32-0AA0

160	--
200	--
250	--
400	--
500	--

3VA2216-7MS32-0AA0

3VA2220-7MS32-0AA0

3VA2325-7MS32-0AA0

3VA2440-7MS32-0AA0

3VA2450-7MS32-0AA0

Motor protection, ETU350M LSI

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

Connection with box terminal

25	--
40	--
63	--
100	--

Connection with box terminal

3VA2125-7MN36-0AA0
3VA2140-7MN36-0AA0
3VA2163-7MN36-0AA0
3VA2110-7MN36-0AA0

Connection with nut keeper kit

25	--
40	--
63	--
100	--

Connection with nut keeper kit

3VA2125-7MN32-0AA0
3VA2140-7MN32-0AA0
3VA2163-7MN32-0AA0
3VA2110-7MN32-0AA0

160	--
200	--
250	--
400	--
500	--

3VA2216-7MN32-0AA0

3VA2220-7MN32-0AA0

3VA2325-7MN32-0AA0

3VA2440-7MN32-0AA0

3VA2450-7MN32-0AA0

NEW 630	--
800	--

3VA2563-7MN32-0AA0

3VA2580-7MN32-0AA0

Molded Case Circuit Breakers

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

Motor protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



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

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

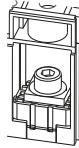
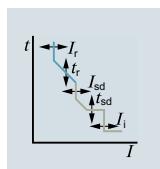


Motor protection, with display, ETU550M LSI NEW

With adjustable overload protection I_r (delay adjustable either via trip class T_C (10A, 10/10E, 20/20E, 30/30E) or directly via T_P in the range of 3 ... 30 s at 7.2 $\times I$ (depending on size)) and adjustable delayed short-circuit protection I_{sd}

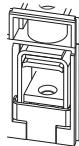
Connection with box terminal

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



Connection with nut keeper kit

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

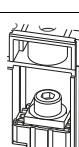
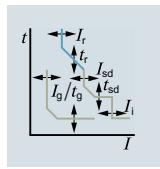


Motor protection, with display, with metering function, ETU860M LSIG

With adjustable overload protection I_r (delay adjustable either via trip class T_C (10A, 10/10E, 20/20E, 30/30E) or directly via T_P in the range of 3 ... 30 s at 7.2 $\times I$ (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	10 ... 25	30 ... 375	75 ... 375	3VA2125-5MQ36-0AA0
	40	16 ... 40	48 ... 600	120 ... 600	3VA2140-5MQ36-0AA0
	63	25 ... 63	76 ... 945	189 ... 945	3VA2163-5MQ36-0AA0
	100	40 ... 100	120 ... 1500	300 ... 1500	3VA2110-5MQ36-0AA0



Connection with nut keeper kit

3VA21	25	10 ... 25	30 ... 375	75 ... 375	3VA2125-5MQ32-0AA0
	40	16 ... 40	48 ... 600	120 ... 600	3VA2140-5MQ32-0AA0
	63	25 ... 63	76 ... 945	189 ... 945	3VA2163-5MQ32-0AA0
	100	40 ... 100	120 ... 1500	300 ... 1500	3VA2110-5MQ32-0AA0
3VA22	160	63 ... 160	192 ... 2400	480 ... 2400	3VA2216-5MQ32-0AA0
	200	80 ... 200	240 ... 3000	600 ... 3000	3VA2220-5MQ32-0AA0
3VA23	250	100 ... 250	300 ... 3750	750 ... 3750	3VA2325-5MQ32-0AA0
3VA24	400	160 ... 400	480 ... 6000	1200 ... 6000	3VA2440-5MQ32-0AA0
	500	200 ... 500	600 ... 7500	1500 ... 7500	3VA2450-5MQ32-0AA0
3VA25 NEW	630	250 ... 630	756 ... 9450	1890 ... 9450	3VA2563-5MQ32-0AA0
	800	320 ... 800	960 ... 9600	2400 ... 9600	3VA2580-5MQ32-0AA0

Molded Case Circuit Breakers

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

Motor 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 switching 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

2

Motor protection, with display, ETU550M LSI NEW

With adjustable overload protection I_f (delay adjustable either via trip class T_C (10A, 10/10E, 20/20E, 30/30E)
or directly via T_P in the range of 3 ... 30 s at $7.2 \times I$ (depending on size))
and adjustable delayed short-circuit protection I_{sd}

		Connection with box terminal	Connection with box terminal
NEW	25	--	3VA2125-7MP36-0AA0
	40	--	3VA2140-7MP36-0AA0
	63	--	3VA2163-7MP36-0AA0
	100	--	3VA2110-7MP36-0AA0
NEW	25	Connection with nut keeper kit	Connection with nut keeper kit
	40	--	3VA2125-7MP32-0AA0
	63	--	3VA2140-7MP32-0AA0
	100	--	3VA2163-7MP32-0AA0
	160	--	3VA2110-7MP32-0AA0
	200	--	3VA2216-7MP32-0AA0
	250	--	3VA2220-7MP32-0AA0
NEW	400	--	3VA2325-7MP32-0AA0
	500	--	3VA2440-7MP32-0AA0
NEW	630	--	3VA2450-7MP32-0AA0
	800	--	3VA2563-7MP32-0AA0
			3VA2580-7MP32-0AA0

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

With adjustable overload protection I_f (delay adjustable either via trip class T_C (10A, 10/10E, 20/20E, 30/30E)
or directly via T_P in the range of 3 ... 30 s at $7.2 \times I$ (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	3VA2140-7MQ36-0AA0
40	--	3VA2163-7MQ36-0AA0	3VA2110-7MQ36-0AA0
63	--		
100	--		
NEW	25	Connection with nut keeper kit	Connection with nut keeper kit
	40	--	3VA2125-7MQ32-0AA0
	63	--	3VA2140-7MQ32-0AA0
	100	--	3VA2163-7MQ32-0AA0
	160	--	3VA2110-7MQ32-0AA0
	200	--	3VA2216-7MQ32-0AA0
	250	--	3VA2220-7MQ32-0AA0
	400	--	3VA2325-7MQ32-0AA0
	500	--	3VA2440-7MQ32-0AA0
NEW	630	--	3VA2450-7MQ32-0AA0
	800	--	3VA2563-7MQ32-0AA0
			3VA2580-7MQ32-0AA0

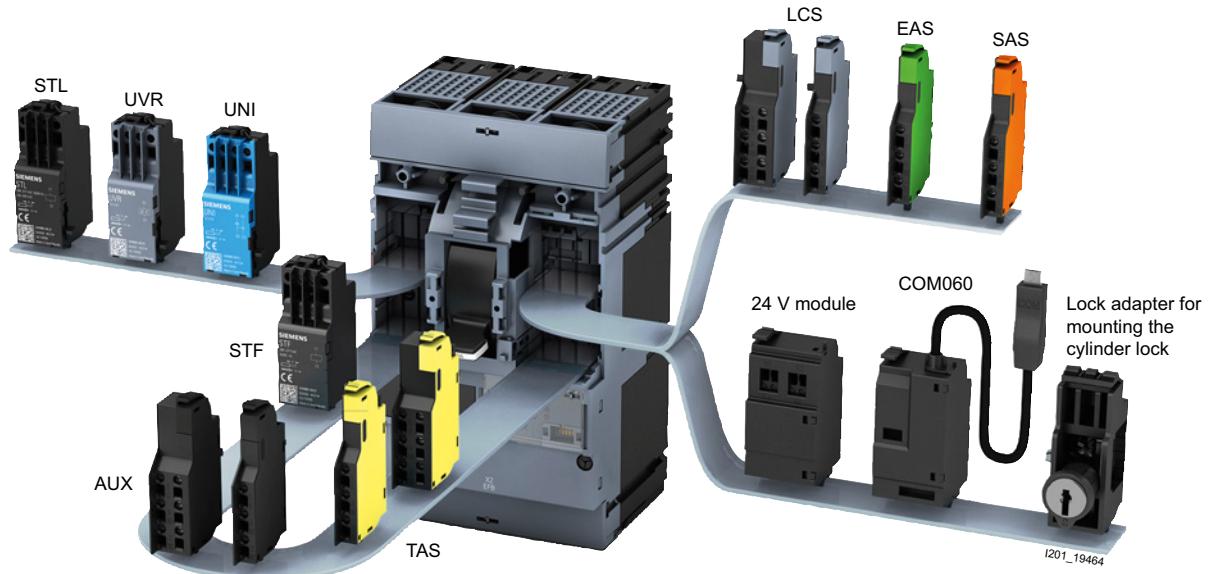
Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A – 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	Undervoltage release UVR
Yellow	Trip alarm switch TAS	--
Orange	Short circuit alarm switch SAS	--
Green	Electrical alarm switch EAS	--
Blue	--	Universal release UNI

Auxiliary switches

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

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

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

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

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

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

Auxiliary releases

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

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

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

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

Molded Case Circuit Breakers

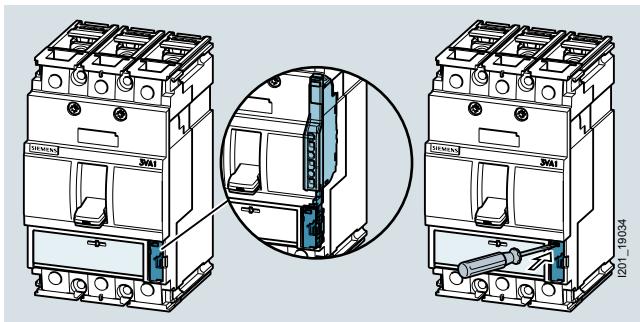
3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Internal accessories

2

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 moldable 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 moldable-case circuit breaker

The configuration is complete. You can order this product.

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

Language: English Additional actions

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 <ul style="list-style-type: none"> <input type="radio"/> No auxiliary release <input type="radio"/> STL 24 V AC 50/60 Hz / 12-30 <input type="radio"/> STL 110-127 V AC 50/60 Hz / DC <input type="radio"/> STL 208-277 V AC 50/60 Hz / 220-250 V DC <input checked="" type="radio"/> UVR 24 V DC <input type="radio"/> UVR 120-127 V AC 50/60 Hz <input type="radio"/> UVR 208-230 V AC 50/60 Hz <input type="radio"/> UNI 24 V DC 	Slot assignment	Auxiliary switch/alarm switch <ul style="list-style-type: none"> <input type="radio"/> Without auxiliary/alarm switches <input type="radio"/> Type HP 2 AUX <input type="radio"/> Type HQ 2 AUX <input type="radio"/> Type HQ 3 AUX <input type="radio"/> Type HQ 4 AUX <input type="radio"/> Type HQ 1 AUX + 1 TAS <input type="radio"/> Type HP 1 AUX + 1 TAS <input type="radio"/> Type HQ 2 AUX + 1 TAS <input type="radio"/> Type HP 2 AUX + 1 TAS <input checked="" type="radio"/> Type HQ 1 AUX + 1 TAS + 1 EAS <input type="radio"/> Type HQ 2 AUX + 1 TAS + 1 EAS
--	------------------------	--

Molded Case Circuit Breakers

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

Internal accessories

Design

Internal accessories		3VA11 2-pole	3VA10 3 and 4-pole	3VA11 3 and 4-pole	3VA12 3 and 4-pole	
Optional equipment		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	160 A	100 A	160 A	250 A	
Auxiliary switch	AUX_HQ	x x x	x x x x x x	x x x x x x	x x x x x x x x	
	AUX_HQ_el	x x x	x x x x x x	x x x x x x	x x x x x x x x	
	AUX_HP	x		x x x x x x	x x x x x x x x	
Leading changeover switch	LCS_HQ			x x x x x x	x x x x x x x x	
	LCS_HQ_el			x x x x x x	x x x x x x x x	
	LCS_HP			x x x x x x	x x x x x x x x	
Alarm switch	Type					
	TAS_HQ	x x	x x x x	x x x x	x x x x	
	TAS_HQ_el	x x	x x x x	x x x x	x x x x	
	TAS_HP	x				
Short circuit alarm switch	SAS_HQ					
	SAS_HQ_el			x x	x x	
Auxiliary release	Type					
	Shunt trip flexible	STF	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	

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

I201_19033

Molded Case Circuit Breakers

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

Internal accessories

2

Internal accessories		3VA13/14 3 and 4-pole										3VA15 3 and 4-pole										
Optional equipment																						
		Slot No.:																				
Auxiliary switch	Type	25	24	23	22	21	630 A	11	12	13	14	15	25	24	23	22	21	11	12	13	14	15
Auxiliary switch	AUX_HQ	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	
	AUX_HP		x	x				x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Leading changeover switch	LCS_HQ						x						x			x			x			
	LCS_HQ_el						x						x			x			x			
	LCS_HP						x						x			x			x			
Alarm switch	Type							x	x	x	x					x	x	x	x	x		
	TAS_HQ						x	x	x	x					x	x	x	x	x	x		
	TAS_HQ_el						x	x	x	x					x	x	x	x	x	x		
Short circuit alarm switch	TAS_HP						x						x			x			x			
	SAS_HQ												x									x
SAS_HQ_el													x									x
Auxiliary release	Type												x			x			x			
	Shunt trip flexible	STF											x				x			x		
Shunt trip left	STL							x								x			x			
	STL (EI)						x									x			x			
Undervoltage release	UVR						x									x			x			
Universal release	UNI						x									x			x			
Other																						
	Cylinder lock (type Ronis)												x						x			

I201_19689

Molded Case Circuit Breakers

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

Internal accessories

Internal accessories		3VA20/21/22											
Optional equipment		3-pole											
		4-pole											
		Slot No.:											
Auxiliary switch		Type											
Auxiliary switch		AUX_HQ											
		AUX_HQ_el											
		AUX_HP											
Leading changeover switch		LCS_HQ											
		LCS_HQ_el											
		LCS_HP											
Alarm switch		Type											
Trip alarm switch		TAS_HQ											
		TAS_HQ_el											
		TAS_HP											
Electrical alarm switch		EAS_HQ											
		EAS_HQ_el											
Auxiliary release		Type											
Shunt trip flexible		STF											
Shunt trip left		STL											
		STL (EI)											
Undervoltage release		UVR											
Universal release		UNI											
ETU/communication		Type											
Breaker data server communication module		COM060											
24 V module													
Other													
Cylinder lock (type Ronis)													

I201_18812

Molded Case Circuit Breakers

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

Internal accessories

2

Internal accessories Optional equipment		3VA23/24 3-pole										3VA23/24 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																										
Auxiliary switch	AUX_HQ	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
	AUX_HQ_el	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
	AUX_HP			x	x			x	x	x	x		x	x	x	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							x	x		x	x						x	x		x	x		x	x		
Trip alarm switch	TAS_HQ							x	x		x	x						x	x		x	x		x	x		
	TAS_HQ_el							x	x		x	x						x	x		x	x		x	x		
	TAS_HP							x			x							x			x			x			
Electrical alarm switch	EAS_HQ												x											x			
	EAS_HQ_el												x											x			
Auxiliary release	Type																										
Shunt trip flexible	STF							x			x							x		x							
Shunt trip left	STL							x										x			x						
	STL (EI)							x										x			x						
Undervoltage release	UVR							x										x			x						
Universal release	UNI							x										x			x						
ETU/communication	Type																										
Breaker data server communication module	COM060												x														
24 V module													x														
Other													x														
Cylinder lock (type Ronis)													x											x			

I201_18812

Molded Case Circuit Breakers

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

Internal accessories

Internal accessories		3VA25 3-pole								3VA25 4-pole								3VA25 4-pole																
Optional equipment		24	23	22	21					11	12	13	14	15	16	24	23	22	21						11	12	13	14	15	16				
Slot No.:																																		
Auxiliary switch	Type	x	x	x	x					x	x	x	x				x	x	x	x					x	x	x	x						
Auxiliary switch	AUX_HQ	x	x	x	x					x	x	x	x				x	x	x	x					x	x	x	x						
	AUX_HQ_el	x	x	x	x					x	x	x	x				x	x	x	x					x	x	x	x						
	AUX_HP	x	x			x				x	x			x			x	x	x	x					x	x								
Leading changeover switch	LCS_HQ					x				x				x			x				x				x									
	LCS_HQ_el					x				x				x			x				x				x									
	LCS_HP						x																		x									
Alarm switch	Type						x	x		x	x			x				x	x	x	x				x	x	x	x						
Trip alarm switch	TAS_HQ						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						
	TAS_HP																								x									
Electrical alarm switch	EAS_HQ																								x									
	EAS_HQ_el																								x									
Auxiliary release	Type						x											x							x									
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																	x							x									
Breaker data server communication module	COM060																	x							x									
Module 24 V																									x									

I201_19504

Molded Case Circuit Breakers

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

Internal accessories

Selection and ordering data

	Version	SD d	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Auxiliary switches and alarm switches (changeover contacts)							
			Auxiliary switch AUX	Type/switc	Electronic-compatible		
3VA9988-0AA11			HP/high switching capacity/2 slots	--		3VA9988-0AA11	1
3VA9988-0AA12			HQ/compact size/1 slot	--		3VA9988-0AA12	1
			HQ_el/compact size/1 slot	✓		3VA9988-0AA13	1
							1 unit
							1CB
Leading changeover switch LCS							
			Type/switc	Electronic-compatible			
3VA9988-0AA21			HP/high switching capacity/2 slots	--		3VA9988-0AA21	1
3VA9988-0AA22			HQ/compact size/1 slot	--		3VA9988-0AA22	1
			HQ_el/compact size/1 slot	✓		3VA9988-0AA23	1
							1 unit
							1CB
Trip alarm switch TAS							
			Type/switc	Electronic-compatible			
3VA9988-0AB11			HP/high switching capacity/2 slots	--		3VA9988-0AB11	1
3VA9988-0AB12			HQ/compact size/1 slot	--		3VA9988-0AB12	1
			HQ_el/compact size/1 slot	✓		3VA9988-0AB13	1
							1 unit
							1CB
Short circuit alarm switch SAS (3VA1 only)							
			For molded case circuit breakers/ Article No. stem	Electronic-compatible			
3VA9988-0AB32			For 3VA10, 3VA11				
			• HQ/compact size/1 slot	--		3VA9988-0AB32	1
			• HQ_el/compact size/1 slot	✓		3VA9988-0AB33	1
			For 3VA12, 3VA13 and 3VA14				1 unit
			• HQ/compact size/1 slot	--		3VA9988-0AB34	1
			• HQ_el/compact size/1 slot	✓		3VA9988-0AB35	1
							1 unit
							1CB
Electrical alarm switch EAS (3VA2 only)							
			Type/switc	Electronic-compatible			
3VA9988-0AB22			HQ/compact size/1 slot	--		3VA9988-0AB22	1
			HQ_el/compact size/1 slot	✓		3VA9988-0AB23	1
							1 unit
							1CB

Molded Case Circuit Breakers

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

Internal accessories

	Version	SD d	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG																																
Undervoltage releases																																							
	Undervoltage release UVR																																						
<table border="1"> <thead> <tr> <th>50/60 Hz V AC</th> <th>V DC</th> </tr> </thead> <tbody> <tr><td>--</td><td>12</td></tr> <tr><td>--</td><td>24</td></tr> <tr><td>--</td><td>48</td></tr> <tr><td>--</td><td>60</td></tr> <tr><td>--</td><td>125 ... 127</td></tr> <tr><td>--</td><td>220 ... 230</td></tr> <tr><td>--</td><td>250</td></tr> <tr><td>24</td><td>--</td></tr> <tr><td>48</td><td>--</td></tr> <tr><td>60</td><td>--</td></tr> <tr><td>110</td><td>--</td></tr> <tr><td>120 ... 127</td><td>--</td></tr> <tr><td>208 ... 230</td><td>--</td></tr> <tr><td>380 ... 400</td><td>--</td></tr> <tr><td>440 ... 480</td><td>--</td></tr> </tbody> </table>								50/60 Hz V AC	V DC	--	12	--	24	--	48	--	60	--	125 ... 127	--	220 ... 230	--	250	24	--	48	--	60	--	110	--	120 ... 127	--	208 ... 230	--	380 ... 400	--	440 ... 480	--
50/60 Hz V AC	V DC																																						
--	12																																						
--	24																																						
--	48																																						
--	60																																						
--	125 ... 127																																						
--	220 ... 230																																						
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24	--																																						
48	--																																						
60	--																																						
110	--																																						
120 ... 127	--																																						
208 ... 230	--																																						
380 ... 400	--																																						
440 ... 480	--																																						
3VA9908-0BB15	3VA9908-0BB10	1	1 unit	1CB																																			
	3VA9908-0BB11	1	1 unit	1CB																																			
	3VA9908-0BB12	1	1 unit	1CB																																			
	3VA9908-0BB13	1	1 unit	1CB																																			
	3VA9908-0BB14	1	1 unit	1CB																																			
	3VA9908-0BB15	1	1 unit	1CB																																			
	3VA9908-0BB16	1	1 unit	1CB																																			
	3VA9908-0BB20	1	1 unit	1CB																																			
	3VA9908-0BB21	1	1 unit	1CB																																			
	3VA9908-0BB22	1	1 unit	1CB																																			
	3VA9908-0BB23	1	1 unit	1CB																																			
	3VA9908-0BB24	1	1 unit	1CB																																			
	3VA9908-0BB25	1	1 unit	1CB																																			
	3VA9908-0BB26	1	1 unit	1CB																																			
	3VA9908-0BB27	1	1 unit	1CB																																			
Shunt trip left																																							
	Shunt trip left STL																																						
<table border="1"> <thead> <tr> <th>50/60 Hz V AC</th> <th>V DC</th> </tr> </thead> <tbody> <tr><td>--</td><td>12</td></tr> <tr><td>24</td><td>24 ... 30</td></tr> <tr><td>48 ... 60</td><td>48 ... 60</td></tr> <tr><td>110 ... 127</td><td>110 ... 127</td></tr> <tr><td>208 ... 277</td><td>220 ... 250</td></tr> <tr><td>--</td><td>12</td></tr> <tr><td>380 ... 600</td><td>--</td></tr> </tbody> </table>								50/60 Hz V AC	V DC	--	12	24	24 ... 30	48 ... 60	48 ... 60	110 ... 127	110 ... 127	208 ... 277	220 ... 250	--	12	380 ... 600	--																
50/60 Hz V AC	V DC																																						
--	12																																						
24	24 ... 30																																						
48 ... 60	48 ... 60																																						
110 ... 127	110 ... 127																																						
208 ... 277	220 ... 250																																						
--	12																																						
380 ... 600	--																																						
3VA9988-0BL33	3VA9988-0BL10	1	1 unit	1CB																																			
	3VA9988-0BL30	1	1 unit	1CB																																			
	3VA9988-0BL31	1	1 unit	1CB																																			
	3VA9988-0BL32	1	1 unit	1CB																																			
	3VA9988-0BL33	1	1 unit	1CB																																			
	3VA9988-0BL10	1	1 unit	1CB																																			
	3VA9988-0BL20	1	1 unit	1CB																																			
Shunt trip left STL (EI)																																							
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50/60 Hz V AC	V DC																																						
--	24																																						
	3VA9988-0BM10	1	1 unit	1CB																																			
Shunt trip flexible STF																																							
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50/60 Hz V AC	V DC																																						
24	--																																						
48 ... 60	--																																						
110 ... 127	--																																						
208 ... 277	--																																						
380 ... 500	--																																						
600	--																																						
3VA9988-0BA23	3VA9988-0BA20	1	1 unit	1CB																																			
	3VA9988-0BA21	1	1 unit	1CB																																			
	3VA9988-0BA22	1	1 unit	1CB																																			
	3VA9988-0BA23	1	1 unit	1CB																																			
	3VA9988-0BA24	1	1 unit	1CB																																			
	3VA9988-0BA25	1	1 unit	1CB																																			
Universal release UNI																																							
	Universal release																																						
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50/60 Hz V AC	V DC																																						
--	12																																						
--	24																																						
--	48																																						
3VA9908-0BD13	3VA9908-0BD11	1	1 unit	1CB																																			
	3VA9908-0BD12	1	1 unit	1CB																																			
	3VA9908-0BD13	1	1 unit	1CB																																			
Time-delay device for undervoltage releases																																							
	Time-delay device																																						
<table border="1"> <thead> <tr> <th>V AC</th> <th>V DC</th> <th>Delay time</th> </tr> </thead> <tbody> <tr><td>110</td><td>110</td><td>Fixed</td></tr> <tr><td>230</td><td>230</td><td>Fixed</td></tr> <tr><td>--</td><td>24</td><td>Fixed</td></tr> </tbody> </table>								V AC	V DC	Delay time	110	110	Fixed	230	230	Fixed	--	24	Fixed																				
V AC	V DC	Delay time																																					
110	110	Fixed																																					
230	230	Fixed																																					
--	24	Fixed																																					
3VA9988-0BF22	3VA9988-0BF21	1	1 unit	1CB																																			
	3VA9988-0BF22	1	1 unit	1CB																																			
	3VA9988-0BF23	1	1 unit	1CB																																			

Molded Case Circuit Breakers

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

Manual operators

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.

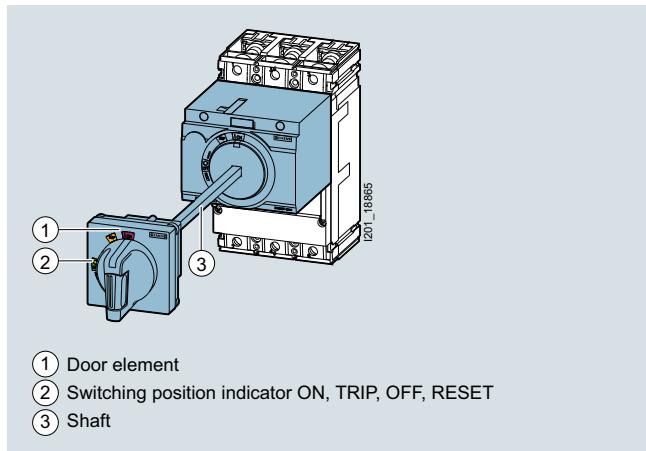
Front mounted rotary operator

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

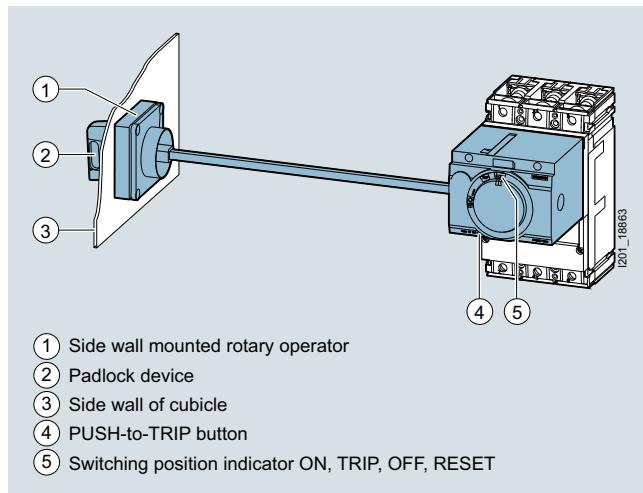
The door mounted rotary operator enables operation of the molded case circuit breaker from the cubicle door. The door element meets the requirements for degree of protection IP65 and features a door interlocking system and tolerance compensation. A variable depth adapter can be deployed to allow use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



2

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.



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 up to 1000 A – 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					
Front mounted rotary operators																	
Front mounted rotary operators																	
 3VA9267-0EK11	Type	Color	<ul style="list-style-type: none"> • Rotary operator • Handle • For IEC • Degree of protection IP30 • For 3-pole and 4-pole breakers 	Gray	✓	--	--	--	--	3VA9157-0EK11	1	1 unit	1CB				
					--	✓	--	--	--	3VA9257-0EK11	1	1 unit	1CB				
					--	--	✓	--	--	3VA9267-0EK11	1	1 unit	1CB				
					--	--	--	✓	--	3VA9467-0EK11	1	1 unit	1CB				
					--	--	--	✓	--	3VA9687-0EK11	1	1 unit	1CB				
					✓	--	--	--	--	3VA9157-0EK13	1	1 unit	1CB				
					--	✓	--	--	--	3VA9257-0EK13	1	1 unit	1CB				
					--	--	✓	--	--	3VA9267-0EK13	1	1 unit	1CB				
					--	--	✓	--	--	3VA9467-0EK13	1	1 unit	1CB				
					✓	--	--	--	--	3VA9157-0EK15	1	1 unit	1CB				
					--	✓	--	--	--	3VA9257-0EK15	1	1 unit	1CB				
					--	--	✓	--	--	3VA9267-0EK15	1	1 unit	1CB				
					--	--	✓	--	--	3VA9467-0EK15	1	1 unit	1CB				
					✓	--	--	--	--	3VA9687-0EK15	1	1 unit	1CB				
 3VA9687-0EK21																	
					✓	--	--	--	--	3VA9157-0EK21	1	1 unit	1CB				
					✓	--	--	--	--	3VA9257-0EK21	1	1 unit	1CB				
					✓	--	--	--	--	3VA9267-0EK21	1	1 unit	1CB				
					✓	--	--	✓	--	3VA9467-0EK21	1	1 unit	1CB				
					✓	--	--	--	✓	3VA9687-0EK21	1	1 unit	1CB				
					✓	--	--	--	✓	3VA9157-0EK23	1	1 unit	1CB				
					✓	--	--	--	--	3VA9257-0EK23	1	1 unit	1CB				
					✓	--	--	--	--	3VA9267-0EK23	1	1 unit	1CB				
					✓	--	--	✓	--	3VA9467-0EK23	1	1 unit	1CB				
					✓	--	--	--	✓	3VA9687-0EK23	1	1 unit	1CB				
					✓	--	--	--	✓	3VA9157-0EK25	1	1 unit	1CB				
					✓	--	--	--	--	3VA9257-0EK25	1	1 unit	1CB				
					✓	--	--	✓	--								

Molded Case Circuit Breakers

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

Manual operators

	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	3VA15 3VA25 3VA24	d						
Door mounted rotary operators													
 3VA9267-0FK21	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 75–75 mm • Degree of protection IP65 • For 3-pole and 4-pole breakers 												
	Type	Color											
	• Standard	Gray	✓	--	--	--	3VA9157-0FK21	1	1 unit	1CB			
			--	✓	--	--	3VA9257-0FK21	1	1 unit	1CB			
			--	--	✓	--	3VA9267-0FK21	1	1 unit	1CB			
			--	--	--	✓	3VA9467-0FK21	1	1 unit	1CB			
			--	--	--	✓	3VA9687-0FK21	1	1 unit	1CB			
	• Standard, with illumination kit	Gray	✓	--	--	--	3VA9157-0FK23	1	1 unit	1CB			
			--	✓	--	--	3VA9257-0FK23	1	1 unit	1CB			
			--	--	✓	--	3VA9267-0FK23	1	1 unit	1CB			
			--	--	--	✓	3VA9467-0FK23	1	1 unit	1CB			
	• EMERGENCY-OFF	Yellow-red	✓	--	--	--	3VA9157-0FK25	1	1 unit	1CB			
			--	✓	--	--	3VA9257-0FK25	1	1 unit	1CB			
			--	--	✓	--	3VA9267-0FK25	1	1 unit	1CB			
			--	--	--	✓	3VA9467-0FK25	1	1 unit	1CB			
			--	--	--	✓	3VA9687-0FK25	1	1 unit	1CB			
	• EMERGENCY-OFF, with illumination kit	Yellow-red	✓	--	--	--	3VA9157-0FK27	1	1 unit	1CB			
			--	✓	--	--	3VA9257-0FK27	1	1 unit	1CB			
			--	--	✓	--	3VA9267-0FK27	1	1 unit	1CB			
			--	--	--	✓	3VA9467-0FK27	1	1 unit	1CB			
			--	--	--	✓	3VA9687-0FK27	1	1 unit	1CB			
	• Standard, without tolerance compensation NEW	Gray	✓	--	--	--	3VA9157-0FK61	1	1 unit	1CB			
			--	✓	--	--	3VA9257-0FK61	1	1 unit	1CB			
			--	--	✓	--	3VA9267-0FK61	1	1 unit	1CB			
			--	--	--	✓	3VA9467-0FK61	1	1 unit	1CB			
			--	--	--	✓	3VA9687-0FK61	1	1 unit	1CB			
	Supplementary handle for door mounted rotary operator												
	 3VA9487-0GC01	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												
	 8UD1900-2WB00	Versions											
	• 8 mm												
	- 300 mm long		✓	✓	✓	✓	8UD1900-2WA00	1	1 unit	1CB			
	- 600 mm long		✓	✓	✓	✓	8UD1900-2WB00	1	1 unit	1CB			
	• 12 mm												
	- 325 mm long		--	--	--	--	8UD1900-4WA00	1	1 unit	1CB			
	- 600 mm long		--	--	--	--	8UD1900-4WB00	1	1 unit	1CB			
			--	--	--	--							
			--	--	--	--							

Molded Case Circuit Breakers

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

Manual operators

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

Molded Case Circuit Breakers

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

Manual operators

2

Version	For molded case circuit breakers/ SD Article No. stem						Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
3VA10	3VA12	3VA20	3VA13								
3VA11		3VA21	3VA14								
		3VA22	3VA23								
			3VA24	d							

Side wall mounted rotary operators

Side wall mounted rotary operators

- Without mounting plate
 - Rotary operator with shaft 300 mm
 - Handle with masking plate 75 x 75 mm
 - Degree of protection IP65
 - For 3-pole and 4-pole breakers



3VA9267-0PK11

Type	Color	3VA9157-0PK11	1	1 unit	1CB
• Standard	Gray	✓ -- -- --	3VA9157-0PK11	1	1 unit 1CB
		-- ✓ -- --	3VA9257-0PK11	1	1 unit 1CB
		-- -- ✓ --	3VA9267-0PK11	1	1 unit 1CB
		-- -- -- ✓	3VA9467-0PK11	1	1 unit 1CB
• Standard, with illumination kit	Gray	✓ -- -- --	3VA9157-0PK13	1	1 unit 1CB
		-- ✓ -- --	3VA9257-0PK13	1	1 unit 1CB
		-- -- ✓ --	3VA9267-0PK13	1	1 unit 1CB
		-- -- -- ✓	3VA9467-0PK13	1	1 unit 1CB
• EMERGENCY-OFF	Yellow-red	✓ -- -- --	3VA9157-0PK15	1	1 unit 1CB
		-- ✓ -- --	3VA9257-0PK15	1	1 unit 1CB
		-- -- ✓ --	3VA9267-0PK15	1	1 unit 1CB
		-- -- -- ✓	3VA9467-0PK15	1	1 unit 1CB
• EMERGENCY-OFF, with illumination kit	Yellow-red	✓ -- -- --	3VA9157-0PK17	1	1 unit 1CB
		-- ✓ -- --	3VA9257-0PK17	1	1 unit 1CB
		-- -- ✓ --	3VA9267-0PK17	1	1 unit 1CB
		-- -- -- ✓	3VA9467-0PK17	1	1 unit 1CB

Side wall mounted rotary operators

- With mounting plate
 - Rotary operator with short shaft
 - Handle with masking plate 75 x 75 mm
 - Degree of protection IP65
 - For 3-pole and 4-pole breakers



3VA9267-0PK51

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

Extended DIN rail for N/PE terminal

- For mounting plate
- Up to 250 A



3VA9987-0GL30

3VA9987-0GL30	1	1 unit	1CB
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Molded Case Circuit Breakers

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

Manual operators

2

Version	For molded case circuit breakers/ Article No. stem					SD	Article No. www.siemens.com/ product	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA10 3VA11	3VA12	3VA20 3VA21	3VA13 3VA14	3VA15 3VA25	d					

Handles

Handles

- With masking plate



8UD1731-0AB11

Type	Color	Tolerance compensation	✓	✓	✓	--	--	8UD1721-0AB11	1	1 unit	1CB	
• Standard	Gray	Without	✓	✓	✓	--	--	8UD1721-0AB21	1	1 unit	1CB	
		With	✓	✓	✓	--	--	8UD1731-0AB11	1	1 unit	1CB	
		Without	--	--	--	✓	--	8UD1731-0AB21	1	1 unit	1CB	
		With	--	--	--	✓	--	8UD1741-0AB11	1	1 unit	1CB	
		Without	--	--	--	--	✓	8UD1741-0AB21	1	1 unit	1CB	
		With	--	--	--	--	✓	8UD1721-0AB15	1	1 unit	1CB	
• EMERGEN-CY-OFF	Yellow-red	Without	✓	✓	✓	--	--	8UD1721-0AB25	1	1 unit	1CB	
		With	✓	✓	✓	--	--	8UD1731-0AB15	1	1 unit	1CB	
		Without	--	--	--	✓	--	8UD1731-0AB25	1	1 unit	1CB	
		With	--	--	--	✓	--	8UD1741-0AB15	1	1 unit	1CB	
		Without	--	--	--	--	✓	8UD1741-0AB25	1	1 unit	1CB	
		With	--	--	--	--	✓	8UD1721-0AB10	1	1 unit	1CB	
Spare part: Handle lever extension			--	--	--	--	✓	3VA9987-OSC10	1	1 unit	1CB	
Note			--	--	--	✓	NEW	--	3VA9487-OSC10	1	1 unit	1CB

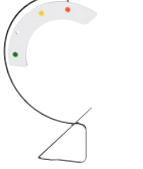
The handle lever extension is already included in the scope of supply of the breakers.



Molded Case Circuit Breakers

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

Manual operators

	Version	SD d	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
General accessories for manual operators							
	Labeling plate for manual operators 3VA9087-0SX10		3VA9087-0SX10	1	10 units	1CB	
	Illumination kit for manual operators 24 V DC voltage 8UD1900-0KA20	For molded case circuit breakers 3VA1, 100 ... 250 A 3VA2, 100 ... 630 A 3VA1, 3VA2, 100 ... 630 A	8UD1900-0KA10 8UD1900-0KA20 8UD1900-0KA20	1 1 1	1 unit 1 unit 1 unit	1CB 1CB 1CB	
	Cylinder lock (type Kaba) • For door mounted rotary operator and side wall mounted rotary operator (in the masking plate) • Standard masking plate 8UD1900-0MB01	Key 1 Key 2 Key 3 Key 4	8UD1900-0MB01 8UD1900-0NB01 8UD1900-0PB01 8UD1900-0QB01	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Cylinder lock (type Kaba) • For door mounted rotary operator and side wall mounted rotary operator (in the masking plate) • EMERGENCY-OFF masking plate 8UD1900-0MB05	Key 1 Key 2 Key 3 Key 4	8UD1900-0MB05 8UD1900-0NB05 8UD1900-0PB05 8UD1900-0QB05	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	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 3VA9980-0VL10	Key 1 Key 3 Key 4	3VA9980-0VL10 3VA9980-0VL30 3VA9980-0VL40	1 1 1	1 unit 1 unit 1 unit	1CB 1CB 1CB	
<i>Note</i> The cylinder lock adapter for rotary operators is also needed for locking or interlocking circuit breakers via rotary operators.							
	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	For molded case circuit breakers 3VA1, 3VA2, 100 ... 630 A 3VA1/3VA2, 1000 A NEW	3VA9980-0LF20 3VA9680-0LF20	1 1	1 unit 1 unit	1CB 1CB	

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A – 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

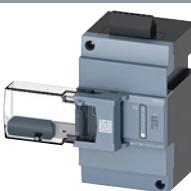
- The MO320 motor operator is simply snapped into position on a mounting frame which is installed instead of the accessories lid of the molded case circuit breaker.

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
Break time, typically	< 800 ms	< 800 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
Motor operators								
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	
	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	

Molded Case Circuit Breakers

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

Motor operators

Overview

Motor operator with stored energy operator (SEO520) NEW

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

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

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

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

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

Note:

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

Communication option

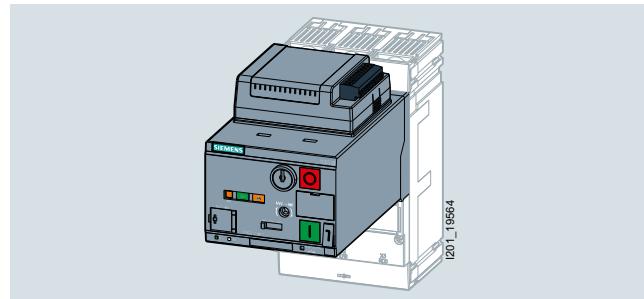
The SEO520 is also optionally available with communication functionality. A connection with the COM060 communication module integrates it into the communication environment of the 3VA molded case circuit breakers and ensures that the molded case circuit breaker can also be switched via the supported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

Additional functions

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

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

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



Benefits

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

Technical specifications

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

Molded Case Circuit Breakers

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

Motor operators

Selection and ordering data

	Version for molded case circuit breakers/frame size 3VA2 100 A, 160 A, 250 A	SD d	Article No. www.siemens.com/ product?Article No.	Price per PPU	PU (UNIT, SET, M)	PS*/ P. unit	PG		
Motor operators NEW									
 3VA9267-0HC10									
Motor operator with stored energy operator (SEO520) Versions									
Without a communication link		<ul style="list-style-type: none"> • 24 V DC 3VA9267-0HC10 • 42 ... 60 V AC/DC 3VA9267-0HC20 • 110 ... 230 V AC, 110 ... 250 V DC 3VA9267-0HC30 		1	1 unit	1CB			
With a communication link		<ul style="list-style-type: none"> • 24 V DC 3VA9267-0HC15 • 110 ... 230 V AC, 110 ... 250 V DC 3VA9267-0HC35 		1	1 unit	1CB			
 3VA9987-0HX10									
Mechanical operating cycles counter For installation in the SEO520									
 3VA9980-0LF30									
Cylinder lock adapter for SEO520 For installing cylinder locks in the SEO520									
 3VA9980-0VL10									
Cylinder lock (type Ronis) <ul style="list-style-type: none"> • Includes a lock with 2 keys • For locking the operating mode (manual/auto/lock) 									
Key 1		3VA9980-0VL10		1	1 unit	1CB			
Key 3		3VA9980-0VL30		1	1 unit	1CB			
Key 4		3VA9980-0VL40		1	1 unit	1CB			

Molded Case Circuit Breakers

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

Connection technology

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

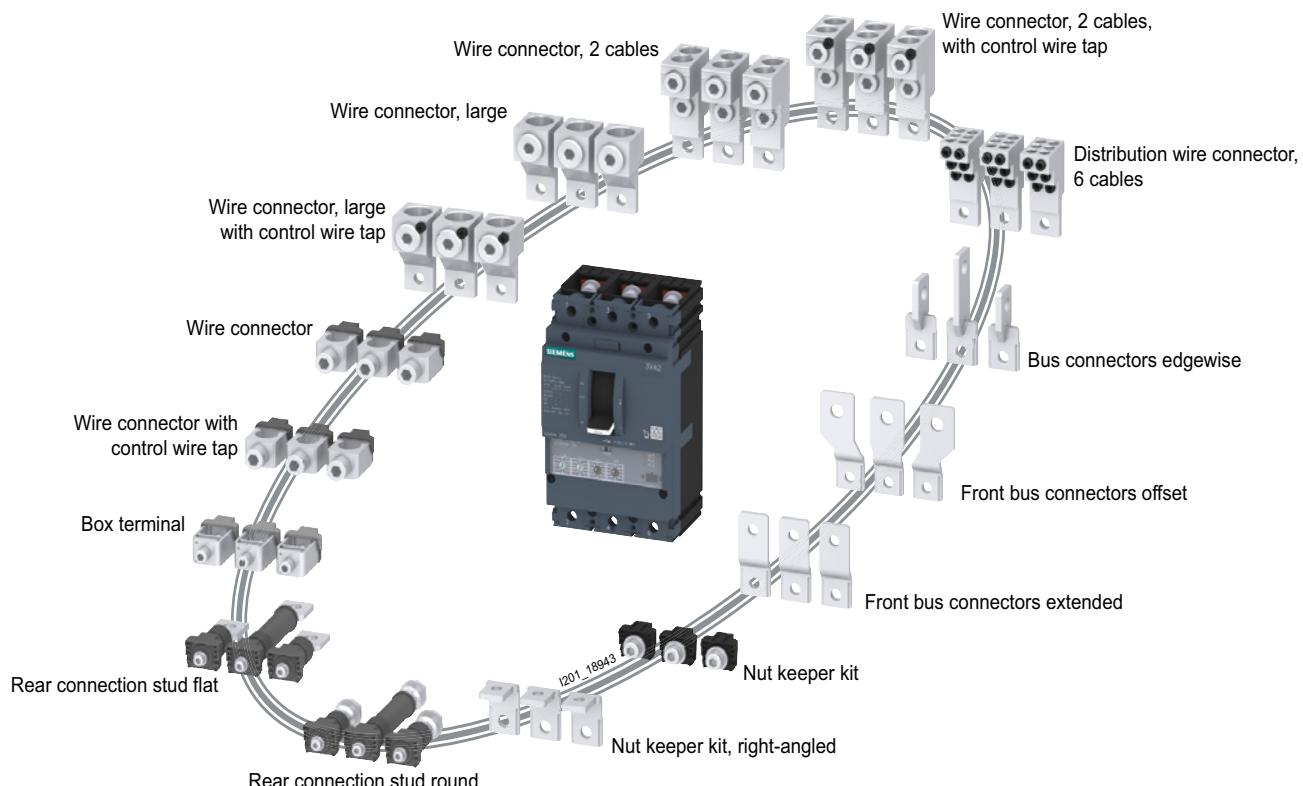
The following catalog pages provide all the information needed to ensure that a 3VA molded case circuit breaker is safely connected.

2

Connection technology for the 3VA molded case circuit breaker

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

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



Molded Case Circuit Breakers

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

Connection technology

3VA1 conductor cross-sections

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

¹⁾ Only approved up to rated current 400 A

Molded Case Circuit Breakers

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

Connection technology

3VA2 conductor cross-sections

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

¹⁾ Only approved up to rated current 400 A

Molded Case Circuit Breakers

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

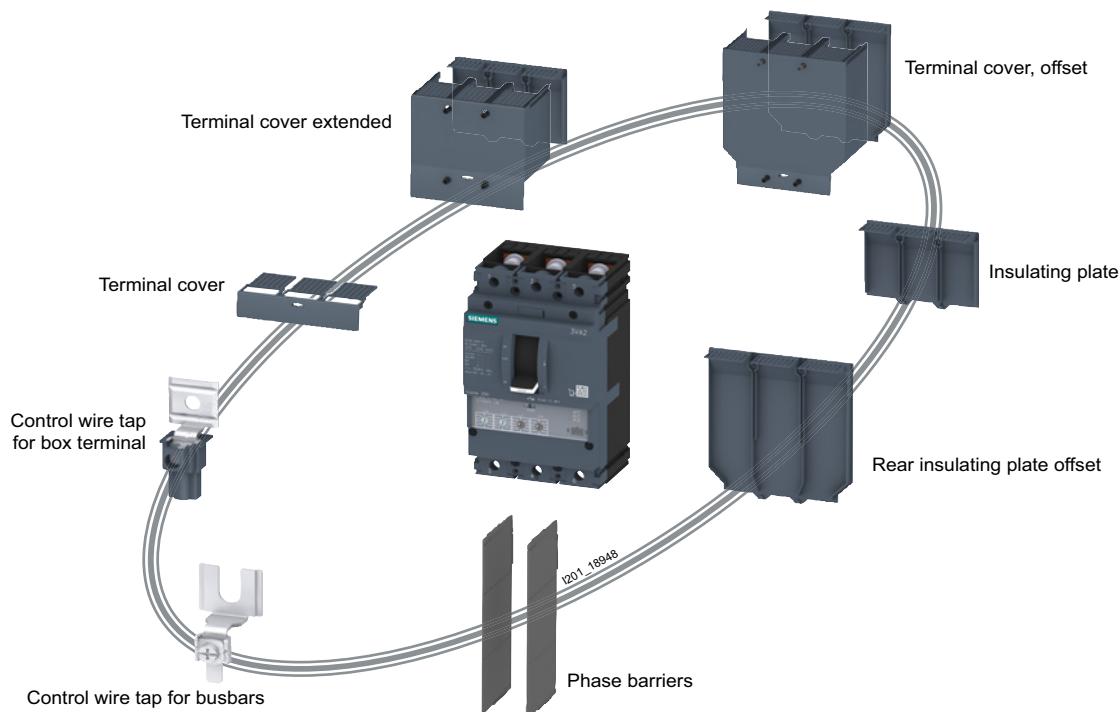
Connection technology

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.
- Offset terminal covers are required when front bus connectors offset are installed. The extended terminal cover consists of two parts, a rear insulating plate offset and the top half of the terminal cover. Both parts are attached by screws and thus afford the degrees of protection specified above.

Insulating plates

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

- Insulating plate: in combination with bus connector extended, for example

- Rear insulating plate offset: in combination with front bus connectors offset, for example

Control wire taps

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

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

All control wire taps are rated for a maximum load of 15 A. Cables of up to 2.5 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 up to 1000 A – 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	3VA15 3VA25 3VA24					
Box terminals suitable for all installation types (fixed-mounted, plug-in and draw-out versions)													
	Box terminal <ul style="list-style-type: none">• Connection of Cu cable• Included in scope of supply: 3 single terminals	1.5 mm ²	70 mm ²	✓	--	--	--	--	3VA9153-0JA11	1	1 unit	1CB	
3VA9163-0JA12		6 mm ²	120 mm ²	--	✓	--	--	--	3VA9253-0JA11	1	1 unit	1CB	
		50 mm ²	185 mm ²	--	✓	--	--	--	3VA9253-0JA12	1	1 unit	1CB	
		6 mm ²	120 mm ²	--	--	✓	--	--	3VA9163-0JA12	1	1 unit	1CB	
		25 mm ²	185 mm ²	--	--	✓	--	--	3VA9263-0JA12	1	1 unit	1CB	
		35 mm ²	300 mm ²	--	--	--	✓ ¹⁾	--	3VA9483-0JA13	1	1 unit	1CB	
	Box terminal <ul style="list-style-type: none">• Connection of Cu cable• Included in scope of supply: 4 single terminals	1.5 mm ²	70 mm ²	✓	--	--	--	--	3VA9154-0JA11	1	1 unit	1CB	
3VA9164-0JA12		6 mm ²	120 mm ²	--	✓	--	--	--	3VA9254-0JA11	1	1 unit	1CB	
		50 mm ²	185 mm ²	--	✓	--	--	--	3VA9254-0JA12	1	1 unit	1CB	
		6 mm ²	120 mm ²	--	--	✓	--	--	3VA9164-0JA12	1	1 unit	1CB	
		25 mm ²	185 mm ²	--	--	✓	--	--	3VA9264-0JA12	1	1 unit	1CB	
		35 mm ²	300 mm ²	--	--	--	✓ ¹⁾	--	3VA9484-0JA13	1	1 unit	1CB	
Wire connectors suitable for all installation types (fixed-mounted, plug-in and draw-out versions)													
	Wire connector <ul style="list-style-type: none">• Connection of Cu/Al cable• Included in scope of supply: 3 single terminals	1.5 mm ²	10 mm ²	✓ NEW	--	--	--	--	3VA9113-0JB10	1	1 unit	1CB	
3VA9103-0JB11		10 mm ²	95 mm ²	✓	--	--	--	--	3VA9113-0JB11	1	1 unit	1CB	
		35 mm ²	185 mm ²	--	✓	--	--	--	3VA9253-0JB12	1	1 unit	1CB	
		1.5 mm ²	50 mm ²	--	--	✓	--	--	3VA9103-0JB11	1	1 unit	1CB	
		16 mm ²	185 mm ²	--	--	✓	--	--	3VA9263-0JB12	1	1 unit	1CB	
		50 mm ²	300 mm ²	--	--	--	✓ ²⁾	--	3VA9383-0JB13	1	1 unit	1CB	
	Wire connector, 2 cables <ul style="list-style-type: none">• Connection of Cu/Al cable• Included in scope of supply: 3 single terminals and 1 terminal cover, short	120 mm ²	300 mm ²	--	--	--	--	✓	3VA9503-0JB23	1	1 unit	1CB	
3VA9503-0JB23													
	Wire connector, 3 cables <ul style="list-style-type: none">• Connection of Cu/Al cable• Included in scope of supply: 3 single terminals and 1 terminal cover, short	120 mm ²	185 mm ²	--	--	--	--	✓ NEW	3VA9503-0JB32	1	1 unit	1CB	
3VA9503-0JB32													
	Wire connector <ul style="list-style-type: none">• Connection of Cu/Al cable• Included in scope of supply: 4 single terminals	1.5 mm ²	10 mm ²	✓ NEW	--	--	--	--	3VA9114-0JB10	1	1 unit	1CB	
3VA9104-0JB11		10 mm ²	95 mm ²	✓	--	--	--	--	3VA9114-0JB11	1	1 unit	1CB	
		35 mm ²	185 mm ²	--	✓	--	--	--	3VA9254-0JB12	1	1 unit	1CB	
		1.5 mm ²	50 mm ²	--	--	✓	--	--	3VA9104-0JB11	1	1 unit	1CB	
		16 mm ²	185 mm ²	--	--	✓	--	--	3VA9264-0JB12	1	1 unit	1CB	
		50 mm ²	300 mm ²	--	--	--	✓ ²⁾	--	3VA9384-0JB13	1	1 unit	1CB	

¹⁾ Only approved up to rated current 400 A²⁾ Maximum current-carrying capacity of copper cables 380 A
Maximum current-carrying capacity of aluminum cables 310 A

Molded Case Circuit Breakers

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

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

	Version	Minimum for stranded cable	Maximum for stranded cable	For molded case circuit breakers/ Article No. stem							SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23	3VA15 3VA25	d							
	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	--	--	--	--	--	✓		3VA9504-0JB23		1	1 unit	1CB	
	Wire connector, 3 cables • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals and 1 terminal cover, short	120 mm ²	185 mm ²	--	--	--	--	--	✓	3VA9504-0JB32		1	1 unit	1CB		
	Wire connector with control wire tap • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals	1.5 mm ²	10 mm ²	✓	NEW	--	--	--	--		3VA9113-0JG10		1	1 unit	1CB	
3VA9103-0JG11		10 mm ²	95 mm ²	✓	--	--	--	--	--	3VA9113-0JG11		1	1 unit	1CB		
		35 mm ²	185 mm ²	--	✓	--	--	--	--	3VA9253-0JG12		1	1 unit	1CB		
		1.5 mm ²	50 mm ²	--	--	✓	--	--	--	3VA9103-0JG11		1	1 unit	1CB		
		16 mm ²	185 mm ²	--	--	✓	--	--	--	3VA9263-0JG12		1	1 unit	1CB		
		50 mm ²	300 mm ²	--	--	--	✓ ¹⁾	--	--	3VA9383-0JG13		1	1 unit	1CB		
	Wire connector, 2 cables, with control wire tap • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals and 1 terminal cover, short	120 mm ²	300 mm ²	--	--	--	--	--	✓	3VA9503-0JG23		1	1 unit	1CB		
3VA9503-0JG23																
	Wire connector, 3 cables, with control wire tap • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals and 1 terminal cover, short	120 mm ²	185 mm ²	--	--	--	--	--	✓	3VA9503-0JG32		1	1 unit	1CB		
3VA9503-0JG32																
	Wire connector with control wire tap • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals	1.5 mm ²	10 mm ²	✓	NEW	--	--	--	--		3VA9114-0JG10		1	1 unit	1CB	
3VA9104-0JG11		10 mm ²	95 mm ²	✓	--	--	--	--	--	3VA9114-0JG11		1	1 unit	1CB		
		35 mm ²	185 mm ²	--	✓	--	--	--	--	3VA9254-0JG12		1	1 unit	1CB		
		1.5 mm ²	50 mm ²	--	--	✓	--	--	--	3VA9104-0JG11		1	1 unit	1CB		
		16 mm ²	185 mm ²	--	--	✓	--	--	--	3VA9264-0JG12		1	1 unit	1CB		
		50 mm ²	300 mm ²	--	--	--	✓ ¹⁾	--	--	3VA9384-0JG13		1	1 unit	1CB		

¹⁾ Maximum current-carrying capacity of copper cables 380 A

Maximum current-carrying capacity of aluminum cables 310 A

Molded Case Circuit Breakers

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

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

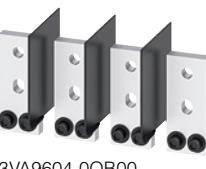
	Version	Minimum for stranded cable	Maximum for stranded cable	For molded case circuit breakers/ Article No. stem						SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23	3VA15 3VA25	3VA24	d					
	Wire connector,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

	Version	Max. tap width	Max. tap thickness	For molded case circuit breakers/ Article No. stem						SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23	3VA15 3VA25	3VA24	d					
Nut keeper kits suitable for all installation types (fixed-mounted, plug-in and draw-out versions)															
	Nut keeper kit Included in scope of supply: • 3 single terminals	17 mm	6.5 mm	✓	--	--	--	--	--		3VA9113-0QA00		1	1 unit	1CB
3VA9203-0QA00		25 mm	8 mm	--	✓	--	--	--	--		3VA9213-0QA00		1	1 unit	1CB
		25 mm	8 mm	--	--	✓	--	--	--		3VA9203-0QA00		1	1 unit	1CB
		35 mm	10 mm	--	--	--	✓	--	--		3VA9403-0QA00		1	1 unit	1CB
	Nut keeper kit Included in scope of supply: • Nut keeper kit for 3-pole breakers • 1 terminal cover	50 mm	28 mm	--	--	--	--	--	✓		3VA9603-0QA00		1	1 unit	1CB
3VA9603-0QA00															
	Nut keeper kit Included in scope of supply: • 4 single terminals	17 mm	6.5 mm	✓	--	--	--	--	--		3VA9114-0QA00		1	1 unit	1CB
3VA9204-0QA00		25 mm	8 mm	--	✓	--	--	--	--		3VA9214-0QA00		1	1 unit	1CB
		25 mm	8 mm	--	--	✓	--	--	--		3VA9204-0QA00		1	1 unit	1CB
		35 mm	10 mm	--	--	--	✓	--	--		3VA9404-0QA00		1	1 unit	1CB
	Nut keeper kit Included in scope of supply: • Nut keeper kit for 4-pole breakers • 1 terminal cover	50 mm	28 mm	--	--	--	--	--	✓		3VA9604-0QA00		1	1 unit	1CB
3VA9604-0QA00															

Molded Case Circuit Breakers

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

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

Version	Max. tap width	Max. tap thickness	For molded case circuit breakers/ Article No. stem					SD	Article No. www.siemens.com/ product ?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			3VA10	3VA12	3VA20	3VA13	3VA15						
			3VA11		3VA21	3VA14	3VA25					d	
Bus connectors extended suitable for all installation types (fixed-mounted, plug-in and draw-out versions)													
	Front bus connectors extended Included in scope of supply: <ul style="list-style-type: none">• 3 single terminals• 2 phase barriers	22 mm	8 mm	✓	--	--	--	--	3VA9153-0QB00	1	1 unit	1CB	
3VA9263-0QB00		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	
	Front bus connectors extended Included in scope of supply: <ul style="list-style-type: none">• 3 single terminals• 2 phase barriers	50 mm	28 mm	--	--	--	--	✓	3VA9603-0QB00	1	1 unit	1CB	
3VA9603-0QB00													
	Front bus connectors extended Included in scope of supply: <ul style="list-style-type: none">• 4 single terminals• 3 phase barriers	22 mm	8 mm	✓	--	--	--	--	3VA9154-0QB00	1	1 unit	1CB	
3VA9264-0QB00		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	
	Front bus connectors extended Included in scope of supply: <ul style="list-style-type: none">• 4 single terminals• 3 phase barriers	50 mm	28 mm	--	--	--	--	✓	3VA9604-0QB00	1	1 unit	1CB	
3VA9604-0QB00													
	Front bus connectors offset Included in scope of supply: <ul style="list-style-type: none">• 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	
3VA9263-0QC00		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 up to 1000 A – accessories, IEC

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

	Version	Max. tap width	Max. tap thickness	For molded case circuit breakers/ Article No. stem					SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12 3VA21 3VA22	3VA20 3VA13 3VA14 3VA23 3VA24	d							
 3VA9263-0QC00	Front bus connectors offset Included in scope of supply: <ul style="list-style-type: none">• 3 single terminals• 2 phase barriers Distance between pole centers: 100/160 A = 35 mm 250 A = 45 mm 400/630 A = 70 mm	30 mm	8 mm	✓	--	--	--			3VA9153-0QC00		1	1 unit	1CB
		35 mm	10 mm	--	✓	--	--			3VA9253-0QC00		1	1 unit	1CB
		35 mm	10 mm	--	--	✓	--			3VA9263-0QC00		1	1 unit	1CB
		60 mm	12.5 mm	--	--	--	✓			3VA9483-0QC00		1	1 unit	1CB
 3VA9263-0QD00	Bus connectors edgewise Included in scope of supply: <ul style="list-style-type: none">• 3 single terminals• 2 phase barriers	20 mm	6 mm	✓	--	--	--			3VA9153-0QD00		1	1 unit	1CB
		25 mm	7 mm	--	✓	--	--			3VA9253-0QD00		1	1 unit	1CB
		25 mm	7 mm	--	--	✓	--			3VA9263-0QD00		1	1 unit	1CB
		40 mm	8 mm	--	--	--	✓			3VA9483-0QD00		1	1 unit	1CB
 3VA9264-0QD00	Bus connectors edgewise Included in scope of supply: <ul style="list-style-type: none">• 4 single terminals• 3 phase barriers	20 mm	6 mm	✓	--	--	--			3VA9154-0QD00		1	1 unit	1CB
		25 mm	7 mm	--	✓	--	--			3VA9254-0QD00		1	1 unit	1CB
		25 mm	7 mm	--	--	✓	--			3VA9264-0QD00		1	1 unit	1CB
		40 mm	8 mm	--	--	--	✓			3VA9484-0QD00		1	1 unit	1CB
 3VA9223-0QG00	Nut keeper kit right-angled¹⁾ Included in scope of supply: <ul style="list-style-type: none">• 3 single terminals• 2 phase barriers	22 mm	8 mm	✓	--	--	--			3VA9113-0QG00		1	1 unit	1CB
		32 mm	10 mm	--	✓	--	--			3VA9213-0QG00		1	1 unit	1CB
		32 mm	10 mm	--	--	✓	--			3VA9223-0QG00		1	1 unit	1CB
		40 mm	12.5 mm	--	--	--	✓			3VA9403-0QG00		1	1 unit	1CB
 3VA9224-0QG00	Nut keeper kit right-angled¹⁾ Included in scope of supply: <ul style="list-style-type: none">• 4 single terminals• 3 phase barriers	22 mm	8 mm	✓	--	--	--			3VA9114-0QG00		1	1 unit	1CB
		32 mm	10 mm	--	✓	--	--			3VA9214-0QG00		1	1 unit	1CB
		32 mm	10 mm	--	--	✓	--			3VA9224-0QG00		1	1 unit	1CB
		40 mm	12.5 mm	--	--	--	✓			3VA9404-0QG00		1	1 unit	1CB

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

Molded Case Circuit Breakers

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

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

	Version	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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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 up to 1000 A – 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	3VA13 3VA14	3VA15 3VA25	3VA22 3VA23	3VA24	d						
Phase barriers suitable for all installation types (fixed-mounted, plug-in and draw-out versions)														
 3VA9262-0WA00	Phase barriers Included in scope of supply: • 2 phase barriers	✓	--	--	--	--				3VA9152-0WA00	1	1 unit	1CB	
		--	✓	--	--	--				3VA9252-0WA00	1	1 unit	1CB	
		--	--	✓	--	--				3VA9262-0WA00	1	1 unit	1CB	
		--	--	--	✓	--				3VA9482-0WA00	1	1 unit	1CB	
		--	--	--	--	✓				3VA9602-0WA00	1	1 unit	1CB	

Version	Max. tap width	Max. tap thickness	For molded case circuit breakers/ Article No. stem								SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			3VA10 3VA11	3VA12	3VA20 3VA21	3VA13 3VA14	3VA15 3VA25	3VA22 3VA23	3VA24	d						
Bus connectors extended specially for fixed mounting																
 3VA9151-0QB00	Front bus connectors extended Included in scope of supply: • 1 busbar connection piece	22 mm	8 mm	✓	--	--	--				3VA9151-0QB00	1	1 unit	1CB		

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A – 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
Wire connectors specially for fixed mounting														
	Wire connector, large <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	25 mm ²	150 mm ²	✓	--	--	--	d		3VA9112-0JJ12		1	1 unit	1CB
3VA9112-0JJ12														
	Wire connector, large <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	25 mm ²	150 mm ²	✓	--	--	--			3VA9113-0JJ12		1	1 unit	1CB
3VA9113-0JJ12														
		50 mm ²	240 mm ²	--	✓	--	--			3VA9213-0JJ13		1	1 unit	1CB
		50 mm ²	240 mm ²	--	--	✓	--			3VA9223-0JJ13		1	1 unit	1CB
	Wire connector, large <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	25 mm ²	150 mm ²	✓	--	--	--			3VA9114-0JJ12		1	1 unit	1CB
3VA9114-0JJ12														
		50 mm ²	240 mm ²	--	✓	--	--			3VA9214-0JJ13		1	1 unit	1CB
		50 mm ²	240 mm ²	--	--	✓	--			3VA9224-0JJ13		1	1 unit	1CB
	Wire connector, large, with control wire tap <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	25 mm ²	150 mm ²	✓	--	--	--			3VA9112-0JC12		1	1 unit	1CB
3VA9112-0JC12														
	Wire connector, large, with control wire tap <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	25 mm ²	150 mm ²	✓	--	--	--			3VA9113-0JC12		1	1 unit	1CB
3VA9113-0JC12														
		50 mm ²	240 mm ²	--	✓	--	--			3VA9213-0JC13		1	1 unit	1CB
		50 mm ²	240 mm ²	--	--	✓	--			3VA9223-0JC13		1	1 unit	1CB
	Wire connector, large, with control wire tap <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	25 mm ²	150 mm ²	✓	--	--	--			3VA9114-0JC12		1	1 unit	1CB
3VA9114-0JC12														
		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 up to 1000 A – 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	
	Wire connector, 2 cables • Connection of Cu/Al cable • Included in scope of supply: - 3 single terminals - 1 terminal cover extended - 1 insulating plate	2 x 25 mm ²	2 x 150 mm ²	--	✓	--	--	--	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d	3VA9213-0JJ22	1 1 unit 1CB
		2 x 25 mm ²	2 x 150 mm ²	--	--	✓	--	--	3VA9223-0JJ22	1 1 unit 1CB				3VA9403-0JJ23	1 1 unit 1CB
		2 x 70 mm ²	2 x 300 mm ²	--	--	--	--	✓							
	Wire connector, 2 cables • Connection of Cu/Al cable • Included in scope of supply: - 4 single terminals - 1 terminal cover extended - 1 insulating plate	2 x 25 mm ²	2 x 150 mm ²	--	✓	--	--	--	3VA9214-0JJ22	1 1 unit 1CB				3VA9224-0JJ22	1 1 unit 1CB
		2 x 25 mm ²	2 x 150 mm ²	--	--	✓	--	--	3VA9224-0JJ22	1 1 unit 1CB				3VA9404-0JJ23	1 1 unit 1CB
		2 x 70 mm ²	2 x 300 mm ²	--	--	--	--	✓							
	Wire connector, 2 cables, with control wire tap • Connection of Cu/Al cable • Included in scope of supply: - 3 single terminals - 1 terminal cover extended - 1 insulating plate	2 x 25 mm ²	2 x 150 mm ²	--	✓	--	--	--	3VA9213-0JC22	1 1 unit 1CB				3VA9223-0JC22	1 1 unit 1CB
		2 x 25 mm ²	2 x 150 mm ²	--	--	✓	--	--	3VA9223-0JC22	1 1 unit 1CB				3VA9403-0JC23	1 1 unit 1CB
		2 x 70 mm ²	2 x 300 mm ²	--	--	--	--	✓							
	Wire connector, 2 cables, with control wire tap • Connection of Cu/Al cable • Included in scope of supply: - 4 single terminals - 1 terminal cover extended - 1 insulating plate	2 x 25 mm ²	2 x 150 mm ²	--	✓	--	--	--	3VA9214-0JC22	1 1 unit 1CB				3VA9224-0JC22	1 1 unit 1CB
		2 x 25 mm ²	2 x 150 mm ²	--	--	✓	--	--	3VA9224-0JC22	1 1 unit 1CB				3VA9404-0JC23	1 1 unit 1CB
		2 x 70 mm ²	2 x 300 mm ²	--	--	--	--	✓							
	Distribution wire connector, 6 cables • Connection of Cu/Al cable • Included in scope of supply: - 2 single terminals - 1 terminal cover extended - 1 insulating plate	6 x 1.5 mm ²	6 x 35 mm ²	✓	--	--	--	--	3VA9112-0JF60	1 1 unit 1CB					
		2 x 25 mm ²	2 x 150 mm ²	--	--	✓	--	--	3VA9113-0JF60	1 1 unit 1CB				3VA9213-0JF60	1 1 unit 1CB
		2 x 70 mm ²	2 x 300 mm ²	--	--	✓	--	--	3VA9223-0JF60	1 1 unit 1CB				3VA9303-0JF60	1 1 unit 1CB
	Distribution wire connector, 6 cables • Connection of Cu/Al cable • Included in scope of supply: - 3 single terminals - 1 terminal cover extended - 1 insulating plate	6 x 1.5 mm ²	6 x 35 mm ²	✓	--	--	--	--	3VA9113-0JF60	1 1 unit 1CB				3VA9223-0JF60	1 1 unit 1CB
		2 x 25 mm ²	2 x 150 mm ²	--	--	✓	--	--	3VA9213-0JF60	1 1 unit 1CB				3VA9303-0JF60	1 1 unit 1CB
		2 x 70 mm ²	2 x 300 mm ²	--	--	✓	--	--	3VA9223-0JF60	1 1 unit 1CB				3VA9303-0JF60	1 1 unit 1CB
	Distribution wire connector, 6 cables • Connection of Cu/Al cable • Included in scope of supply: - 4 single terminals - 1 terminal cover extended - 1 insulating plate	6 x 1.5 mm ²	6 x 35 mm ²	✓	--	--	--	--	3VA9114-0JF60	1 1 unit 1CB				3VA9214-0JF60	1 1 unit 1CB
		2 x 25 mm ²	2 x 150 mm ²	--	--	✓	--	--	3VA9214-0JF60	1 1 unit 1CB				3VA9224-0JF60	1 1 unit 1CB
		2 x 70 mm ²	2 x 300 mm ²	--	--	✓	--	--	3VA9224-0JF60	1 1 unit 1CB				3VA9304-0JF60	1 1 unit 1CB

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A – 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											
	Terminal cover for 1-pole breakers 	✓	--	--	--	--	3VA9111-0WD10	1	1 unit	1CB	
3VA9111-0WD10											
	Terminal cover for 2-pole breakers 	✓	--	--	--	--	3VA9111-0WD20	1	1 unit	1CB	
3VA9111-0WD20											
	Terminal cover for 3-pole breakers 	✓	--	--	--	--	3VA9111-0WD30	1	1 unit	1CB	
3VA9221-0WD30							3VA9211-0WD30	1	1 unit	1CB	
		--	✓	--	--	--	3VA9221-0WD30	1	1 unit	1CB	
		--	--	✓	--	--	3VA9481-0WD30	1	1 unit	1CB	
	Terminal cover for 4-pole breakers 	✓	--	--	--	--	3VA9111-0WD40	1	1 unit	1CB	
3VA9221-0WD40							3VA9211-0WD40	1	1 unit	1CB	
		--	✓	--	--	--	3VA9221-0WD40	1	1 unit	1CB	
		--	--	✓	--	--	3VA9481-0WD40	1	1 unit	1CB	
	Terminal cover extended, 2-pole Including insulating plate 	✓	--	--	--	--	3VA9111-0WF20	1	1 unit	1CB	
3VA9111-0WF20											
	Terminal cover extended for 3-pole breakers Including insulating plate 	✓	--	--	--	--	3VA9111-0WF30	1	1 unit	1CB	
3VA9221-0WF30							3VA9211-0WF30	1	1 unit	1CB	
		--	✓	--	--	--	3VA9221-0WF30	1	1 unit	1CB	
		--	--	✓	--	--	3VA9481-0WF30	1	1 unit	1CB	
	Terminal cover extended for 4-pole breakers Including insulating plate 	✓	--	--	--	--	3VA9111-0WF40	1	1 unit	1CB	
3VA9221-0WF40							3VA9211-0WF40	1	1 unit	1CB	
		--	✓	--	--	--	3VA9221-0WF40	1	1 unit	1CB	
		--	--	✓	--	--	3VA9481-0WF40	1	1 unit	1CB	
	Terminal cover offset for 3-pole breakers Including insulating plate 	✓	--	--	--	--	3VA9111-0WG30	1	1 unit	1CB	
3VA9221-0WG30							3VA9211-0WG30	1	1 unit	1CB	
		--	✓	--	--	--	3VA9221-0WG30	1	1 unit	1CB	
		--	--	✓	--	--	3VA9401-0WG30	1	1 unit	1CB	

Molded Case Circuit Breakers

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

Connection technology – specially for fixed mounting

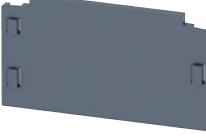
2

	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	d							
	Terminal cover offset for 4-pole breakers Including insulating plate	✓	--	--	--				3VA9111-0WG40		1	1 unit	1CB
		--	✓	--	--				3VA9211-0WG40		1	1 unit	1CB
		--	--	✓	--				3VA9221-0WG40		1	1 unit	1CB
		--	--	--	✓				3VA9401-0WG40		1	1 unit	1CB
3VA9221-0WG40	Insulating plates specially for fixed mounting												
	Insulating plate, 2-pole	✓	--	--	--				3VA9111-0WJ20		1	1 unit	1CB
3VA9111-0WJ20													
	Insulating plate, 3-pole	✓	--	--	--				3VA9111-0WJ30		1	1 unit	1CB
3VA9221-0WJ30									3VA9211-0WJ30		1	1 unit	1CB
		--	✓	--	--				3VA9221-0WJ30		1	1 unit	1CB
		--	--	✓	--				3VA9481-0WJ30		1	1 unit	1CB
	Insulating plate, 4-pole	✓	--	--	--				3VA9111-0WJ40		1	1 unit	1CB
3VA9221-0WJ40									3VA9211-0WJ40		1	1 unit	1CB
		--	✓	--	--				3VA9221-0WJ40		1	1 unit	1CB
		--	--	✓	--				3VA9481-0WJ40		1	1 unit	1CB
	Insulating plate offset, 3-pole	✓	--	--	--				3VA9111-0WK30		1	1 unit	1CB
3VA9221-0WK30									3VA9211-0WK30		1	1 unit	1CB
		--	✓	--	--				3VA9221-0WK30		1	1 unit	1CB
		--	--	✓	--				3VA9481-0WK30		1	1 unit	1CB
	Insulating plate offset, 4-pole	✓	--	--	--				3VA9111-0WK40		1	1 unit	1CB
3VA9221-0WK40									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 up to 1000 A – 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	1CB
 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 up to 1000 A – accessories, IEC

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

	Version	For molded case circuit breakers/ Article No. stem				SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
		3VA11	3VA12	3VA20	3VA13	3VA21	3VA14	3VA22	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 				3VA9113-0KB01				1 1 unit 1CB		
		<ul style="list-style-type: none"> 3-pole Included in scope of supply: Cover for infeed and outgoing side 				3VA9213-0KB01	1 1 unit 1CB					
		<ul style="list-style-type: none"> 3-pole Included in scope of supply: Cover for infeed and outgoing side 				3VA9123-0KB01	1 1 unit 1CB					
		<ul style="list-style-type: none"> 3-pole Included in scope of supply: Cover for infeed and outgoing side 				3VA9353-0KB01	1 1 unit 1CB					
		<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					
		<ul style="list-style-type: none"> 4-pole Included in scope of supply: Cover for infeed and outgoing side 				3VA9214-0KB01	1 1 unit 1CB					
		<ul style="list-style-type: none"> 4-pole Included in scope of supply: Cover for infeed and outgoing side 				3VA9124-0KB01	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 				3VA9153-0KB03	1 1 unit 1CB					
		<ul style="list-style-type: none"> 3-pole 				3VA9253-0KB03	1 1 unit 1CB					
		<ul style="list-style-type: none"> 3-pole 				3VA9163-0KB03	1 1 unit 1CB					
		<ul style="list-style-type: none"> 3-pole 				3VA9353-0KB03	1 1 unit 1CB					
		<ul style="list-style-type: none"> 4-pole 				3VA9154-0KB03	1 1 unit 1CB					
		<ul style="list-style-type: none"> 4-pole 				3VA9254-0KB03	1 1 unit 1CB					
		<ul style="list-style-type: none"> 4-pole 				3VA9164-0KB03	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 				3VA9153-0KB04	1 1 unit 1CB					
		<ul style="list-style-type: none"> 3-pole 				3VA9253-0KB04	1 1 unit 1CB					
		<ul style="list-style-type: none"> 3-pole 				3VA9163-0KB04	1 1 unit 1CB					
		<ul style="list-style-type: none"> 4-pole 				3VA9353-0KB04	1 1 unit 1CB					
		<ul style="list-style-type: none"> 4-pole 				3VA9154-0KB04	1 1 unit 1CB					
		<ul style="list-style-type: none"> 4-pole 				3VA9254-0KB04	1 1 unit 1CB					
		<ul style="list-style-type: none"> 4-pole 				3VA9164-0KB04	1 1 unit 1CB					
		<ul style="list-style-type: none"> 4-pole 				3VA9354-0KB04	1 1 unit 1CB					

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

	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	3VA13	3VA14	3VA22	3VA23	3VA24	d			
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 													
Versions													
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 4-pole 													
					✓	--	--	--		3VA9154-0KB05	1	1 unit	1CB
					--	✓	--	--		3VA9254-0KB05	1	1 unit	1CB
					--	--	✓	--		3VA9164-0KB05	1	1 unit	1CB
					--	--	--	✓		3VA9354-0KB05	1	1 unit	1CB

	Version	Minimum for stranded cable	Maximum for stranded cable	For molded case circuit breakers/ Article No. stem					SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA11	3VA12	3VA20	3VA13	3VA14	3VA22	3VA23	3VA24	d		
Wire connectors specially for plug-in and draw-out units														
Wire connector, large, with control wire tap Included in scope of supply: <ul style="list-style-type: none"> • 3 single terminals • 1 terminal cover extended • 1 insulating plate 														
														
25 mm ²					✓	--	--	--		3VA9153-0JC12	1	1 unit	1CB	
50 mm ²					--	✓	--	--		3VA9253-0JC13	1	1 unit	1CB	
50 mm ²					--	--	✓	--		3VA9263-0JC13	1	1 unit	1CB	
Wire connector, large, with control wire tap Included in scope of supply: <ul style="list-style-type: none"> • 4 single terminals • 1 terminal cover extended • 1 insulating plate 														
														
25 mm ²					✓	--	--	--		3VA9154-0JC12	1	1 unit	1CB	
50 mm ²					--	✓	--	--		3VA9254-0JC13	1	1 unit	1CB	
50 mm ²					--	--	✓	--		3VA9264-0JC13	1	1 unit	1CB	

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

	Version	Minimum for stranded cable	Maximum for stranded cable	For molded case circuit breakers/ Article No. stem					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					
 3VA9263-0JC22	Wire connector, 2 cables, with control wire tap 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	--	✓	--	--	--		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	
 3VA9264-0JC22	Wire connector, 2 cables, with control wire tap 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	--	✓	--	--	--		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	
 3VA9153-0JF60	Distribution wire connector, 6 cables 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	✓	--	--	--	--		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	
 3VA9154-0JF60	Distribution wire connector, 6 cables 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	--	--	--	✓	--		3VA9383-0JF60	1	1 unit	1CB	
		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	
 3VA9280-0WB00	Control wire tap for box terminal	✓	--	--	--					3VA9150-0WB00	1	10 units	1CB	
		--	✓	✓	--					3VA9280-0WB00	1	10 units	1CB	
		--	--	--	✓					3VA9480-0WB00	1	10 units	1CB	
 3VA9280-0WC00	Control wire tap for busbar	✓	--	--	--					3VA9150-0WC00	1	10 units	1CB	
		--	✓	✓	--					3VA9280-0WC00	1	10 units	1CB	
		--	--	--	✓					3VA9480-0WC00	1	10 units	1CB	

Molded Case Circuit Breakers

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

Plug-in and draw-out technology

Overview

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

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

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

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

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

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

Plug-in technology

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

Draw-out technology

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

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

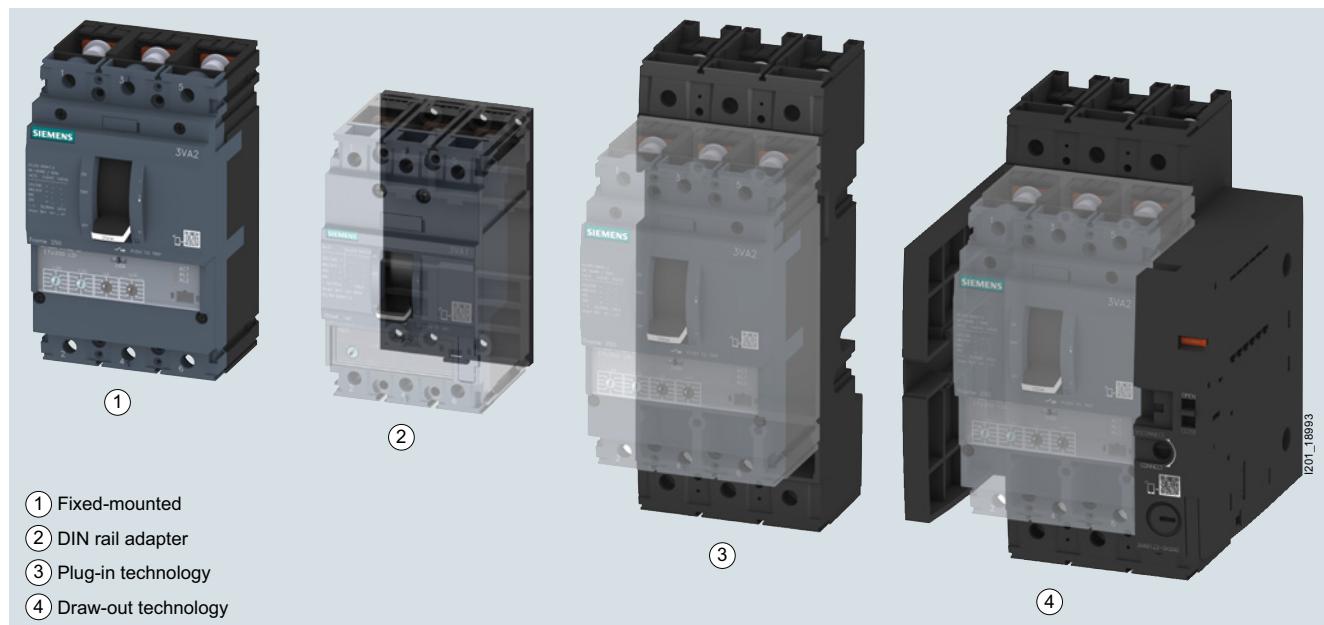
The draw-out complete kit as well as the draw-out conversion kit for one breaker are available. Both kits include screw-fastened terminal covers for the breaker. The crank handle for the draw-out unit must be ordered separately.

Benefits

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

Installation variants

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



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

Molded Case Circuit Breakers

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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	3VA13	3VA21	3VA14	3VA22	3VA23	3VA24	d		
Plug-in socket													
Plug-in unit, complete kit													
Comprising:													
• Plug-in socket													
• Conversion kit													
• Mounting screw kit													
Versions													
• 3-pole		✓	--	--	--								
--		--	✓	--	--								
--		--	--	✓	--								
--		--	--	--	✓								
3VA9113-0KP00													
1 1 unit 1CB													
3VA9123-0KP00													
1 1 unit 1CB													
3VA9123-0KP00													
1 1 unit 1CB													
3VA9323-0KP00													
1 1 unit 1CB													
• 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													
• 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													
• 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													
3VA9123-0KP10													
3VA9124-0KP10													

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Plug-in and draw-out technology

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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						
Draw-out units																			
Draw-out unit, complete kit																			
Comprising:																			
<ul style="list-style-type: none"> • Draw-out socket • Conversion kit • Mounting screw kit 																			
Versions																			
<ul style="list-style-type: none"> • 3-pole 		--	✓	--	--	3VA9213-0KD00					1	1 unit	1CB						
<ul style="list-style-type: none"> • 4-pole 		--	✓	--	--	3VA9214-0KD00					1	1 unit	1CB						
<ul style="list-style-type: none"> • 3-pole 		--	--	✓	--	3VA9123-0KD00					1	1 unit	1CB						
<ul style="list-style-type: none"> • 4-pole 		--	--	--	✓	3VA9323-0KD00					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																			
<ul style="list-style-type: none"> • 3-pole 		--	✓	--	--	3VA9213-0KD10					1	1 unit	1CB						
<ul style="list-style-type: none"> • 4-pole 		--	✓	--	--	3VA9214-0KD10					1	1 unit	1CB						
<ul style="list-style-type: none"> • 3-pole 		--	--	--	✓	3VA9123-0KD10					1	1 unit	1CB						
<ul style="list-style-type: none"> • 4-pole 		--	✓	--	--	3VA9214-0KD10					1	1 unit	1CB						
<ul style="list-style-type: none"> • 3-pole 		--	--	✓	--	3VA9124-0KD10					1	1 unit	1CB						
<ul style="list-style-type: none"> • 4-pole 		--	--	--	✓	3VA9324-0KD10					1	1 unit	1CB						

3VA9124-0KD10

3VA9123-0KD10

3VA9124-0KD00

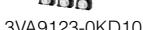
3VA9123-0KD00



3VA9124-0KD00



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Plug-in and draw-out technology

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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	
		3VA11	3VA12	3VA20	3VA13	3VA14	3VA22	3VA23	3VA24	d				
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	3VA13	3VA14	3VA22	3VA23	3VA24	d				
Spare part: Autotrip plunger														
	Autotrip plunger	✓	--	--	--					3VA9157-0KP81	1	1 unit	1CB	
	• Accessories for plug-in unit	--	✓	--	--					3VA9257-0KP81	1	1 unit	1CB	
	• Accessories for draw-out unit	--	--	✓	--					3VA9267-0KP81	1	1 unit	1CB	
		--	--	--	✓					3VA9457-0KP81	1	1 unit	1CB	
		--	✓	--	--					3VA9257-0KD81	1	1 unit	1CB	
		--	--	✓	--					3VA9267-0KD81	1	1 unit	1CB	
3VA9457-0KP81				--	✓					3VA9457-0KD81	1	1 unit	1CB	

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Plug-in and draw-out technology

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	Version	SD d	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Other accessories							
	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		3VA9987-0KC00			1	1 unit 1CB
	Position signaling switches <ul style="list-style-type: none">• For draw-out unit• For plug-in unit		3VA9987-0KB00			1	1 unit 1CB
	Spare part: connecting cable To connect the position signaling switches for communication with the COM060		3VA9987-0KC10			1	1 unit 1CB
	Crank handle for draw-out unit Insulated, incl. crank holder		3VA9987-0KD81			1	1 unit 1CB
	Auxiliary circuit connector Versions <ul style="list-style-type: none">• For all draw-out units• For all plug-in units		3VA9987-0KD80			1	1 unit 1CB
	Note Each auxiliary circuit connector is designed for 4 cables.		3VA9987-0KP80			1	1 unit 1CB
	Version	SD d	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	Cylinder lock (type Ronis) <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) Key 3 (lock number 3) Key 4 (lock number 4)	3VA9980-0VL10 3VA9980-0VL30 3VA9980-0VL40			1	1 unit 1CB
Not for 3VA15/3VA25!						1	1 unit 1CB
3VA9980-0VL10						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		3VA9980-0LF40			1	1 unit 1CB

Molded Case Circuit Breakers

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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.

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

The combination of molded case circuit breakers or switch disconnectors with mounted residual current devices complies with IEC 60947-2 Annex B, while the combination with modular residual current devices of type A complies with IEC 60947-2 Annex M.



"Basic" type residual current devices for 3VA1

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

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

Special features for RCD520B (type B): **NEW**

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

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

RCD310 and RCD510

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

RCD320, RCD520 and RCD520B

RCD320, RCD520 and RCD520B can be installed below the trip unit of the 3VA1 molded case circuit breaker. Equipping the molded case circuit breaker fully with internal accessories is easy because with these residual current devices, the molded case circuit breaker is tripped by a plunger that is already integrated into the residual current device and the circuit breaker.

"Advanced" type residual current devices for 3VA2

RCD820

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

Modular residual current device for 3VA1/3VA2

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

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

Benefits

RCD310 and RCD510

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

RCD320 and RCD520

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

Additional benefits with RCD520B: **NEW**

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

RCD820

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

Molded Case Circuit Breakers

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

Residual current devices

Selection and ordering data

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	Version	For molded case circuit breakers/ Article No. stem 3VA11 3VA12	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
Residual current devices (RCD) for 3VA									
Type A (pulse current sensitive) <ul style="list-style-type: none"> • Mounted on the side (left) • Trip element (RCR) included in the scope of supply • Can only be mounted on molded case circuit breakers and switch disconnectors with box terminal • $U_e = 127 - 480$ V AC, 50/60 Hz 									
Notes <ul style="list-style-type: none"> • 3VA11: If the molded case circuit breaker has no box terminals as connections, a set of box terminals must be ordered additionally for the taps below the thermal-magnetic trip units. • 3VA12: 1 set of box terminals is included in scope of supply of the RCD510 (3VA921.-0RS20). 									
3VA9114-0RS10		RCD310	✓	--	3VA9114-0RS10	1	1 unit	1CB	
3VA9113-0RS20		RCD510	• Rated residual response current, adjustable: $I_{\Delta n} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5$ A; default: 30 mA	• Delay time, adjustable: $\Delta t = \text{Instantaneous (INS)} - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3$ s; default: instantaneous (INS)					
3VA9114-0RS20		Versions	• 3-pole	✓ --	3VA9113-0RS20	1	1 unit	1CB	
			-- ✓		3VA9213-0RS20	1	1 unit	1CB	
			• 4-pole	✓ --	3VA9114-0RS20	1	1 unit	1CB	
			-- ✓		3VA9214-0RS20	1	1 unit	1CB	
Spare part: Residual current release NEW									
3VA9988-0BR10		Residual current release (RCR)	• Accessories for side mounted RCD310 and RCD510	• Scope of supply: RCR, RCR-RCD cables	• For all side mounted residual current devices	3VA9988-0BR10	1	1 unit	1CB

Molded Case Circuit Breakers

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

Residual current devices

Version	For molded case circuit breakers/ Article No. stem 3VA11 3VA12	SD	Article No. www.siemens.com/product	Price per PU	PU (UNIT, SET, M)	PS	PG
Residual current devices (RCD) for 3VA1							
Type A (pulse current sensitive)							
<ul style="list-style-type: none"> • Mounted below (under trip unit) • Can be mounted on molded case circuit breakers • $U_e = 127 - 480$ V AC, 50/60Hz 							
	RCD320 • 4-pole • Rated residual response current, adjustable: $I_{dn} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5$ A; default: 30 mA • Instantaneous (INS)	✓	–	3VA9114-0RL10	1	1 unit	1CB
3VA9114-0RL10							
	RCD520 • Rated residual response current, adjustable: $I_{dn} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5$ A; default: 30 mA • Delay time, adjustable: $\Delta t = \text{Instantaneous (INS)} - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3$ s; default: instantaneous (INS)	–	–				
3VA9113-0RL20							
	Versions	✓	–	3VA9113-0RL20	1	1 unit	1CB
3VA9114-0RL20	• 3-pole	–	✓	3VA9213-0RL20	1	1 unit	1CB
Type B and B+ (universal current sensitive) NEW in the range from 0 to 100 kHz							
<ul style="list-style-type: none"> • According to IEC EN 60947-2 • According to DIN VDE 0664-400 (type B+) • Mounted below (under trip unit) • Can be mounted on molded case circuit breakers • $U_e = 127 - 690$ V AC, 50/60 Hz 							
	RCD520B • Rated residual response current, adjustable type B: $I_{dn} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5$ A; type B+: $I_{dn} = 0.03 - 0.05 - 0.1 - 0.3$ A; default: 30 mA • Delay time, adjustable: $\Delta t = \text{Instantaneous (INS)} - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3 - 5 - 10$ s; default: instantaneous (INS) • RCD or MONITORING mode adjustable default: RCD mode • Tripping characteristic type B or type B+ adjustable default: Tripping characteristic type B	–	–				
3VA9113-0RL21							
	Versions NEW	✓	–	3VA9113-0RL21	1	1 unit	1CB
3VA9114-0RL21	• 3-pole	✓	–	3VA9114-0RL21	1	1 unit	1CB

Molded Case Circuit Breakers

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

Residual current devices

Version	For molded case circuit breakers/ SD Article No. stem				Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA20	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.
- $U_e = 127 - 690 \text{ V AC}, 50/60 \text{ Hz}$



3VA9123-0RL30



3VA9124-0RL30

RCD820

- Rated residual response current, adjustable:
 $I_{dn} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 - 10$
- 30 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

Versions

• 3-pole	✓	--	--	--	3VA9123-0RL30	1	1 unit	1CB
	--	✓	--	--	3VA9223-0RL30	1	1 unit	1CB
	--	--	✓	--	3VA9323-0RL30	1	1 unit	1CB
	--	--	--	✓	3VA9423-0RL30	1	1 unit	1CB
• 4-pole	✓	--	--	--	3VA9124-0RL30	1	1 unit	1CB
	--	✓	--	--	3VA9224-0RL30	1	1 unit	1CB
	--	--	✓	--	3VA9324-0RL30	1	1 unit	1CB
	--	--	--	✓	3VA9424-0RL30	1	1 unit	1CB

Version	For molded case circuit breakers/ SD Article No. stem				Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA10	3VA12	3VA20	3VA13	d				

Modular residual current device MRCD

For more information, see chapter "Monitoring Devices".



Molded Case Circuit Breakers

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

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Overview

Metering function

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

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

Communication via the COM800/COM100 breaker data server

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

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

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

Flexible communication thanks to optional expansion modules

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

- Switched Ethernet PROFINET
- PROFIBUS
- RS 485 (Modbus RTU)

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

DSP800 display

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

Communication and testing/commissioning devices

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

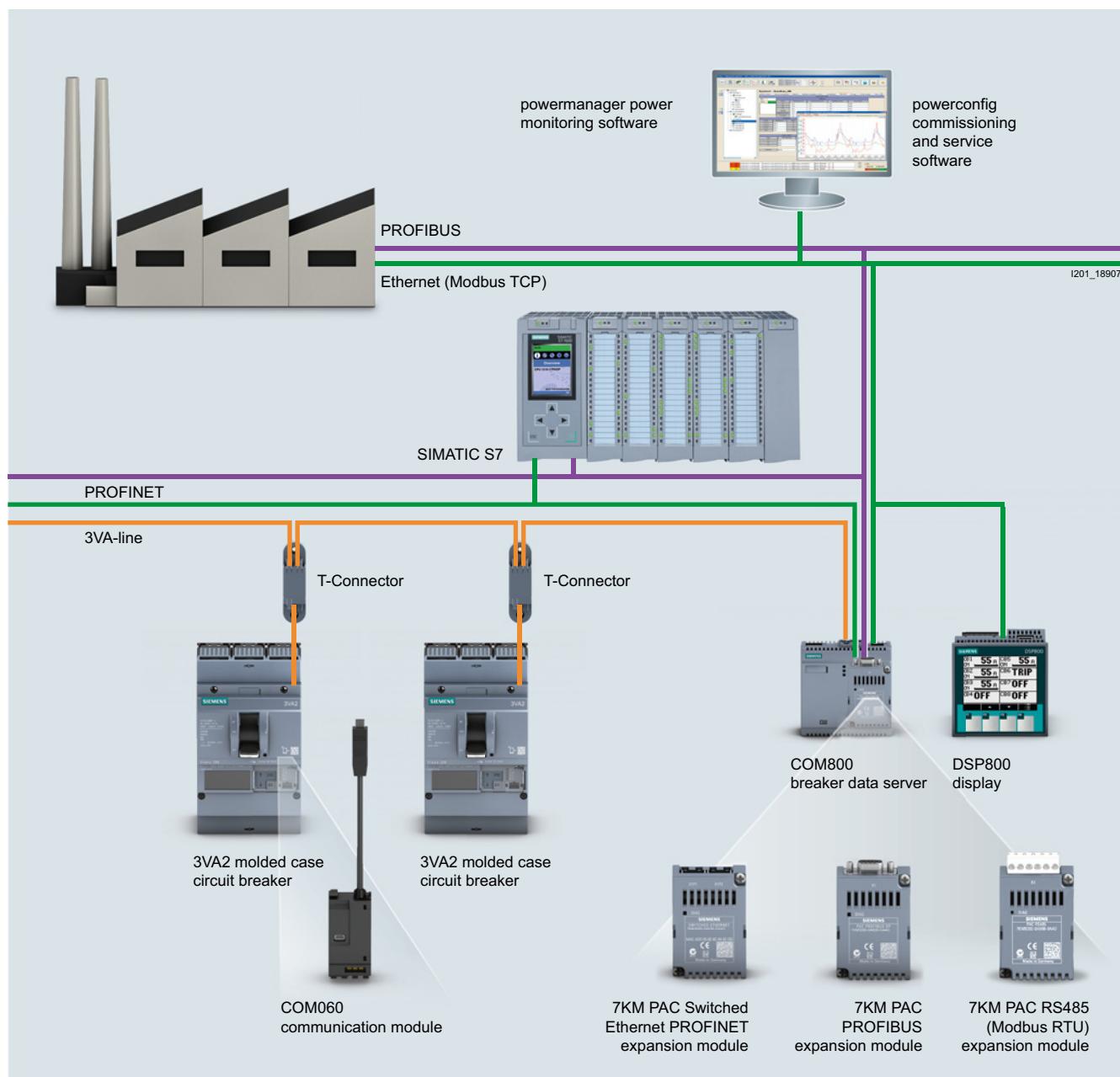
Molded Case Circuit Breakers

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

Communication and testing/commissioning devices

Design

2



Molded Case Circuit Breakers

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

Communication and testing/commissioning devices

Overview of the metering functions

Metering function ¹⁾		ETUs of the 5-series	ETUs of the 8-series	Display Display in ETU	DSP800	Communication COM800/COM100
Current						
Phase and neutral conductor currents	I_1, I_2, I_3, I_N	A	✓	✓	⌚	⌚
Residual current to ground	I_g	A	✓	✓	⌚	⌚
Phase with highest load		A	✓	✓	⌚	⌚
Mean value over the three phase currents	$I_{\text{AVG}} = (I_1 + I_2 + I_3) / 3$	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	$U_{12}, U_{23}, U_{31}, U_{\text{phavg}}$	V	--	✓	⌚	⌚
Voltages to N conductor incl. mean value	$U_{1N}, U_{2N}, U_{3N}, U_{\text{Navg}}$	V	--	✓	--	⌚
Voltage unbalance		%	--	✓	--	⌚
THD phase/phase and phase/N	THDI ₁ , THDI ₂ , THDI ₃	%	--	✓	--	⌚
Power						
Active power, total and per phase	$P_1, P_2, P_3, P_{\text{tot}}$	kW	--	✓	⌚ (P _{tot})	⌚
Apparent power, total and per phase	$S_1, S_2, S_3, S_{\text{tot}}$	kVA	--	✓	--	⌚
Reactive power, total and per phase	$Q_1, Q_2, Q_3, Q_{\text{tot}}$	kVAr	--	✓	⌚	⌚
Power factor of the fundamental	PF ₁ , PF ₂ , PF ₃ , PF _{avg}		--	✓	⌚ (PF _{avg})	⌚
Energy						
Active energy, infeed and feedback	E_p	kWh	--	✓	⌚	⌚
Reactive energy, infeed and feedback	E_q	kVArh	--	✓	--	⌚
Apparent energy	E_s	kVAh	--	✓	--	⌚
Frequency						
Present frequency	f	Hz	--	✓	⌚	⌚
Maximum pointer function						
Min./max. current, voltage, power	With time stamp		--	--	--	--

¹⁾ Depending on ETU version

✓ Available -- Not available
 ⌚ Displayable

Accuracy specifications

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

Measured value	Additional condition	Accuracy in % of the read-off measured value
Current	$0.08 \times I_b \dots 2 \times I_b$	±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

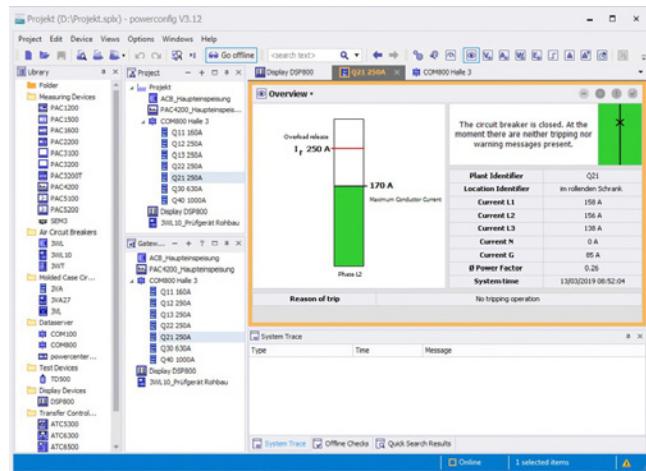
All specified accuracies refer to an ambient temperature of
 $23^\circ \text{C} \pm 2^\circ \text{C}$.

Molded Case Circuit Breakers

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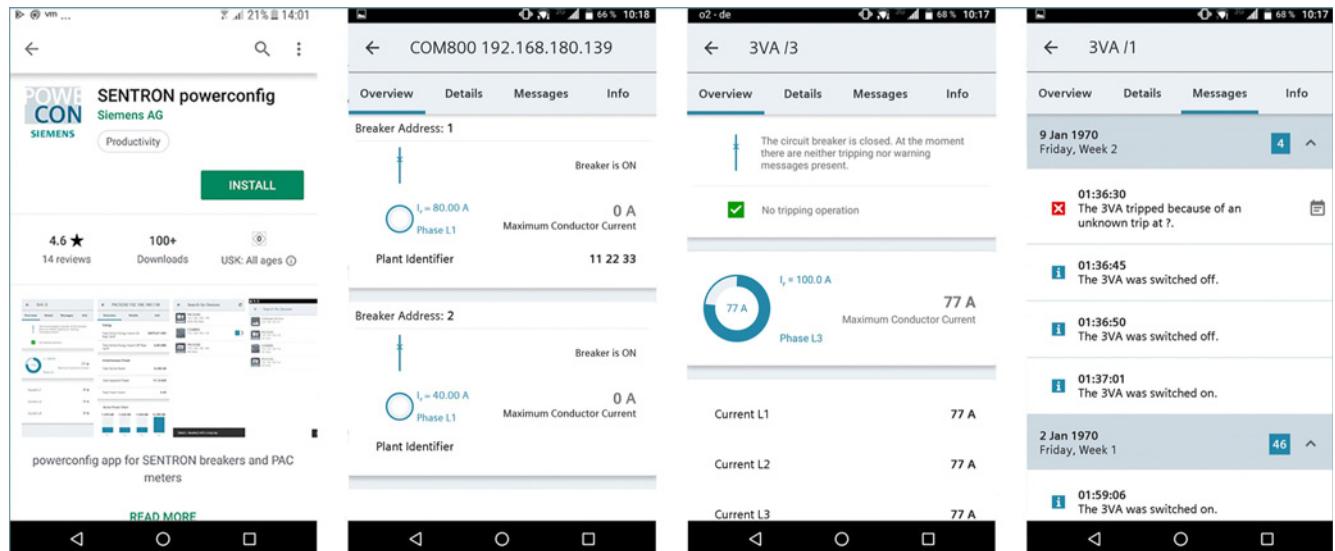
Communication and testing/commissioning devices

Commissioning and service software: powerconfig



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

powerconfig for mobile devices



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



Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A – 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							
	24 V module <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	
3VA9187-0TB50		-- ✓	3VA9387-0TB50	1	1 unit	1CB	
Communication accessories in the molded case circuit breaker							
	COM060 communication module <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	
3VA9187-0TB10		-- ✓	3VA9387-0TB10	1	1 unit	1CB	
Breaker data server							
	COM800 breaker data server <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 Mbps interface• Module slot for plugging on an optional PROFIBUS DP or PROFINET module		3VA9987-0TA10	1	1 unit	1CB	
3VA9987-0TA10							
	COM100 breaker data server <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 Mbps interface• Module slot for plugging on an optional PROFIBUS DP or PROFINET module		3VA9987-0TA20	1	1 unit	1CB	
3VA9987-0TA20							
	7KM PAC PROFIBUS DP expansion module <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	
7KM9300-0AB01-0AA0							
	7KM PAC Switched Ethernet PROFINET expansion module <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, PROFIdirect and Modbus TCP protocols.		7KM9300-0AE01-0AA0	1	1 unit	1DD	
7KM9300-0AE01-0AA0							
	7KM PAC RS 485 Modbus RTU expansion module <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	
7KM9300-0AM00-0AA0							

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A – 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							
	T-Connector <ul style="list-style-type: none">• Spare part• Provides spur line feeder to COM060 and loops through to the next circuit breaker.	d	3VA9987-0TG10		1	1 unit	1CB
3VA9987-0TG10							
	DIN rail adapter For snapping the T-Connector onto a DIN rail.		3VA9987-0TG11		1	1 unit	1CB
3VA9987-0TG11							
	Preassembled T-Connector-to-T-Connector or T-Connector-to-COM800/COM100 connecting cable <ul style="list-style-type: none">• 0.4 m long• 1 m long• 2 m long• 4 m long		3VA9987-0TC10	1	1 unit	1CB	
3VA9987-0TC10			3VA9987-0TC20	1	1 unit	1CB	
			3VA9987-0TC30	1	1 unit	1CB	
			3VA9987-0TC40	1	1 unit	1CB	
	Preassembled connecting cable for extending the COM060-to-T-Connector spur line connection <ul style="list-style-type: none">• 0.4 m long• 0.8 m long		3VA9987-0TF20	1	1 unit	1CB	
3VA9987-0TF20			3VA9987-0TF10	1	1 unit	1CB	
	Additional bus terminating resistors		3VA9987-0TE10	1	5 units	1CB	
3VA9987-0TE10							
	Voltage tap to external N conductor Cable for connecting the neutral point for the metering function of the 8-series ETU, length 1.5 m		3VA9987-0UC10	1	1 unit	1CB	
3VA9987-0UC10							
	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 <ul style="list-style-type: none">• $I_n = 25 \dots 150 \text{ A}$• $I_n = 160 \dots 350 \text{ A}$• $I_n = 400 \dots 630 \text{ A}$		3VA9007-0NA10	1	1 unit	1CB	
3VA9107-0NA10			3VA9107-0NA10	1	1 unit	1CB	
			3VA9307-0NA10	1	1 unit	1CB	
	External current transformer as straight-through transformer NEW <ul style="list-style-type: none">• $I_n = 25 \dots 150 \text{ A}$• $I_n = 160 \dots 350 \text{ A}$• $I_n = 400 \dots 630 \text{ A}$• $I_n = 600 \dots 1250 \text{ A}$		3VA9077-0NA10	1	1 unit	1CB	
3VA9077-0NA10			3VA9177-0NA10	1	1 unit	1CB	
			3VA9377-0NA10	1	1 unit	1CB	
			3VA9677-0NA10	1	1 unit	1CB	
	Spare part: cable for connecting external current transformer for N conductor		3VA9907-0NB10	1	1 unit	1CB	

Molded Case Circuit Breakers

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

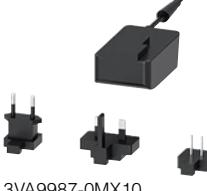
Communication and testing/commissioning devices

	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Display	d						
	DSP800 display • For displaying the status, measured values and parameters of up to 8 3VA2 molded case circuit breakers and for up to 3 devices of 3WL1 size 0 and/or 3VA27 size 1600 A. • Connection to the COM800/COM100 via Ethernet for displaying information of the COM800/COM100 and the connected 3VA2 molded case circuit breakers and for up to 3 devices of 3WL1 size 0 and/or 3VA27 size 1600 A.		3VA9987-0TD10		1	1 unit	1CB
3VA9987-0TD10							
External function box							
	EFB300 • External function box for connection to the ETU of the 3VA2 molded case circuit breakers • 4 digital outputs for information output • 1 digital input • ZSI functionality • SO interface • Including cable 1.5 m in length		3VA9987-0UA10		1	1 unit	1CB
3VA9987-0UA10							
Connecting cable for EFB300	Spare part						
	• Length 1.5 m		3VA9987-0UB10		1	1 unit	1CB
	• Length 3.0 m		3VA9987-0UB20		1	1 unit	1CB
	• Length 3.0 m for 3VA2 with EFB and RCD820		3VA9987-0UB30		1	1 unit	1CB
Test devices							
	TD300 • Connection to the front interface of the ETU • Test device for activating the ETU and triggering a test trip		3VA9987-0MA10		1	1 unit	1CB
3VA9987-0MA10							

Molded Case Circuit Breakers

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

Communication and testing/commissioning devices

	Version	SD d	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	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 adapter and connecting cable for 3VA2 and IEC 3WL molded case circuit breakers (ETU Release 2) • Including case 		3VA9987-0MB10		1	1 unit	1CB
	Spare part: external power supply for TD500 Spare part 110 ... 240 VAC		3VA9987-0MX10		1	1 unit	1CB
	Spare part: cable for connecting the TD500 to the 3VA2 molded case circuit breaker		3VA9987-0MY10		1	1 unit	1CB

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A – 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.

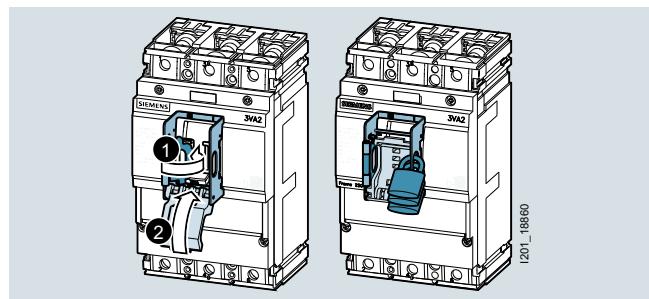
Using the interlocking technology, it is possible to mutually interlock two or more molded case circuit breakers. The interlock system is designed to ensure that no more than one molded case circuit breaker can be operated at a time. The following methods of interlocking can be used on 3VA molded case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

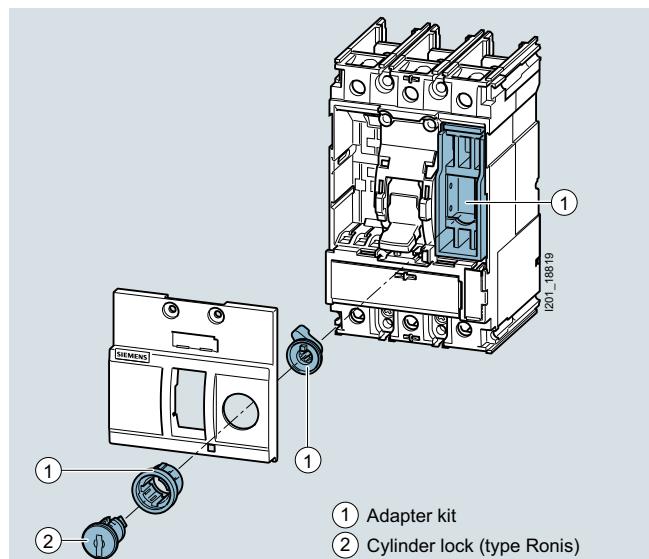


Locking with cylinder lock

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



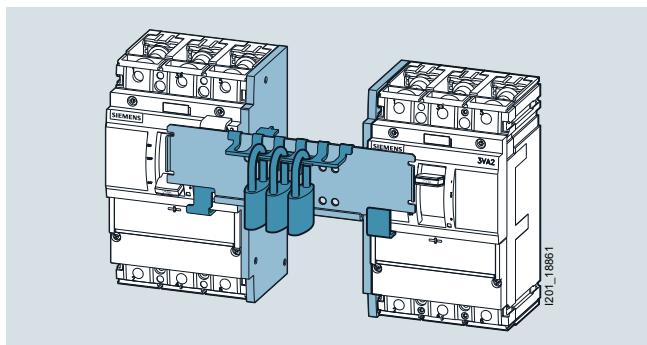
Minimum order quantity (PS) or a multiple thereof can be ordered.

Interlocking technology

Interlocking by means of a sliding bar

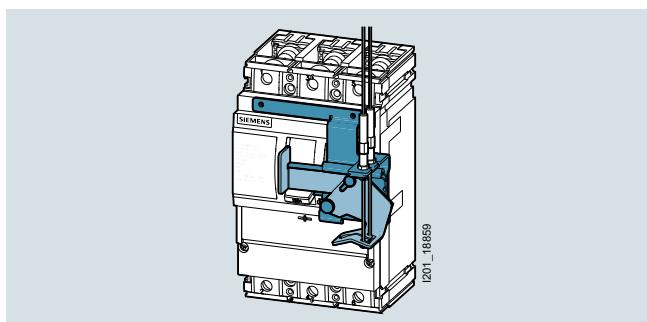
The front sliding bar allows between two and three 3VA molded case circuit breakers of the same size to be mutually interlocked by means of a sliding bar.

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



Handle interlock using a Bowden cable

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



Interlocking with cylinder locks

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

Molded Case Circuit Breakers

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

2

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

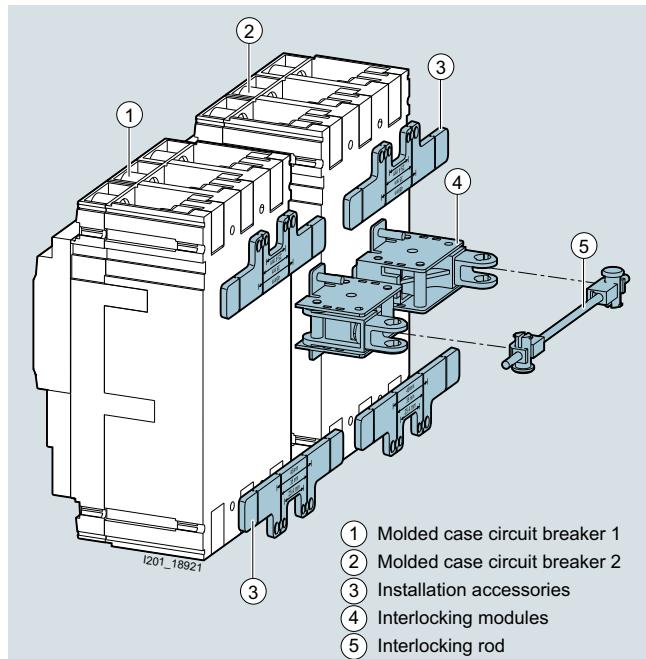
The rear interlock system allows implementation of an interlock without restricting the number of accessories which can be installed at the front of the 3VA mold case circuit breaker. Using the rear interlock, it is possible to create an interlock between two mold case circuit breakers of different sizes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

This system requires the installation of two interlocking modules which are mounted behind the mold 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

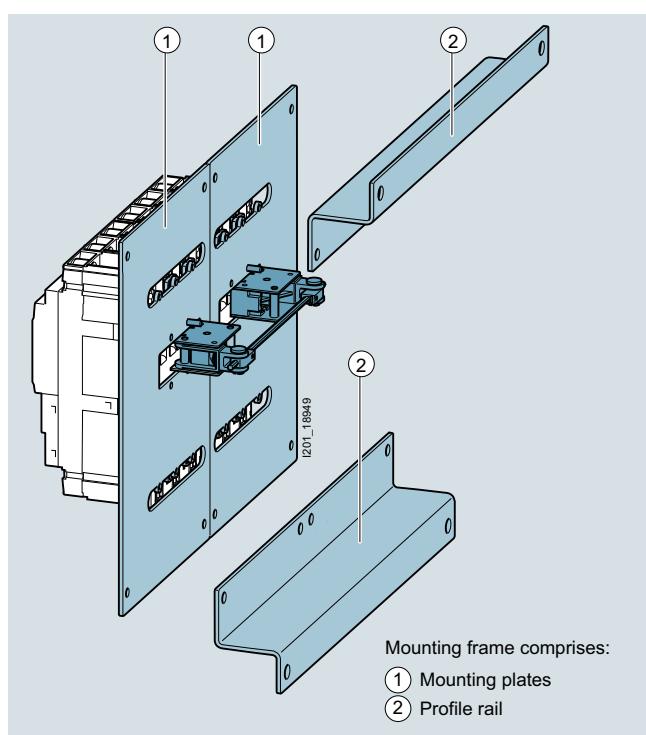
In order to install a rear interlock for plug-in or draw-out versions of the mold case circuit breakers, the plunger needs to be lengthened. The rear interlock for plug-in or draw-out versions is offered as a complete kit.



Rear interlock without mounting frame

Benefits

- Broad range of applications thanks to flexibility of interlocking technology
- Locking technology ensures safe locking of mold 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 mold case circuit breaker (when a rear interlock is deployed)
- Mold case circuit breakers of different sizes can be mutually interlocked.



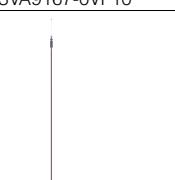
Rear interlock with mounting frame

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers up to 1000 A – 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	Price per PU	PU (UNIT, SET, M)	PS	PG
		3VA11	3VA12	3VA20	3VA13	3VA15						
Accessories for locking, blocking and interlocking												
	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						d					
3VA9167-0LF10	Notes	✓	--	--	--	--		3VA9157-0LF10		1	1 unit	1CB
	• To implement an interlock or a lock: select suitable cylinder lock(s)	--	✓	--	--	--		3VA9257-0LF10		1	1 unit	1CB
	• For an interlock: select the same cylinder lock number	--	--	✓	--	--		3VA9167-0LF10		1	1 unit	1CB
		--	--	--	✓	--		3VA9367-0LF10		1	1 unit	1CB
		--	--	--	--	✓ NEW		3VA9587-0LF10		1	1 unit	1CB
	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											
3VA9980-0VL10	Versions							3VA9980-0VL10		1	1 unit	1CB
	• Key 1 (lock number 1)	✓	✓	✓	✓	--		3VA9980-0VL30		1	1 unit	1CB
	• Key 3 (lock number 3)	✓	✓	✓	✓	--		3VA9980-0VL40		1	1 unit	1CB
	• Key 4 (lock number 4)	✓	✓	✓	✓	--						
	Sliding bar Complete kit for interlocking 2 circuit breakers											
3VA9168-0VF30	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
	Module for handle interlock using a Bowden cable											
3VA9167-0VF10	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
		--	--	--	--	✓ NEW		3VA9587-0VF10		1	1 unit	1CB
	Bowden cable											
3VA9980-0VC10	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
	Rear interlock with rod Complete kit for fixed mounting											
3VA9088-0VM10	Note	✓	✓	✓	✓	--		3VA9088-0VM10		1	1 unit	1CB
	Mounting frames are not included in scope of supply.											
	Rear interlock with rod Complete kit for plug-in/draw-out unit							3VA9088-0VM30		1	1 unit	1CB
3VA9088-0VM30	Note	✓	✓	✓	✓	--						
	If plug-in or draw-out technology is used together with the rear interlock with rod, the mounting plates and profile rails cannot be used.											

Molded Case Circuit Breakers

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

Locking, blocking and interlocking

2

	Version	For molded case circuit breakers/ Article No. stem					SD	Article No. www.siemens.com/product?ArticleNo.	Price per PU	PU (UNIT, SET, M)	PS	PG
		3VA11 3VA12 3VA20 3VA13 3VA15 3VA21 3VA14 3VA25 3VA22 3VA23 3VA24					d					
		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 Mounting plate One per breaker, depending on size Notes 2 mounting plates must be ordered. They are screwed onto the profile rail that can be ordered above. Different breakers can be mutually interlocked.						3VA9088-0VK10		1	1 unit	1CB
3VA9268-0VK20								3VA9158-0VK20		1	1 unit	1CB
								3VA9258-0VK20		1	1 unit	1CB
								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?ArticleNo.	Price per PU	PU (UNIT, SET, M)	PS	PG
		3VA10 3VA12 3VA20 3VA13 3VA15 3VA11 3VA21 3VA14 3VA25 3VA22 3VA23 3VA24					d					
		Accessories for locking										
3VA9388-0LB10		Locking devices for toggle levers						3VA9088-0LB10		1	1 unit	1CB
								3VA9388-0LB10		1	1 unit	1CB
								3VA9588-0LB10		1	1 unit	1CB



3VA9388-0LB10

Molded Case Circuit Breakers

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

Other

2

Selection and ordering data

Version	For molded case circuit breakers/ Article No. stem					SD	Article No. www.siemens.com/product	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA10	3VA12	3VA20	3VA13	3VA15	d					
Cover frame for door cut-out											
	Cover frame for door cut-out for molded case circuit breaker										
3VA9163-0SB10	Versions										
• 3-pole, door cut-out without trip unit											
✓	--	--	--	--	--		3VA9053-0SB10		1	1 unit	1CB
--	✓	--	--	--	--		3VA9253-0SB10		1	1 unit	1CB
--	--	✓	--	--	--		3VA9163-0SB10		1	1 unit	1CB
--	--	--	✓	--	--		3VA9383-0SB10		1	1 unit	1CB
--	--	--	--	✓	--		3VA9503-0SB10		1	1 unit	1CB
• 3-pole, door cut-out with trip unit											
✓	--	--	--	--	--		3VA9053-0SB20		1	1 unit	1CB
--	✓	--	--	--	--		3VA9253-0SB20		1	1 unit	1CB
--	--	✓	--	--	--		3VA9163-0SB20		1	1 unit	1CB
--	--	--	✓	--	--		3VA9363-0SB20		1	1 unit	1CB
--	--	--	--	✓	--		3VA9503-0SB20		1	1 unit	1CB
• 4-pole, door cut-out without trip unit											
✓	--	--	--	--	--		3VA9054-0SB10		1	1 unit	1CB
--	✓	--	--	--	--		3VA9254-0SB10		1	1 unit	1CB
--	--	✓	--	--	--		3VA9164-0SB10		1	1 unit	1CB
--	--	--	✓	--	--		3VA9384-0SB10		1	1 unit	1CB
--	--	--	--	✓	--		3VA9504-0SB10		1	1 unit	1CB
• 4-pole, door cut-out with trip unit											
✓	--	--	--	--	--		3VA9054-0SB20		1	1 unit	1CB
--	✓	--	--	--	--		3VA9254-0SB20		1	1 unit	1CB
--	--	✓	--	--	--		3VA9164-0SB20		1	1 unit	1CB
--	--	--	✓	--	--		3VA9364-0SB20		1	1 unit	1CB
--	--	--	--	✓	--		3VA9504-0SB20		1	1 unit	1CB
Cover frame for MO320 motor operators											
✓	--	--	--	--	--		3VA9053-0SB20		1	1 unit	1CB
--	✓	✓	--	--	--		3VA9257-0SB30		1	1 unit	1CB
--	--	--	✓	--	--		3VA9387-0SB30		1	1 unit	1CB
Cover frame for motor operator with SEO520 stored energy operator											
--	--	--	✓	NEW	--		3VA9167-0SB30		1	1 unit	1CB
Cover frame for RCD320, RCD520 and RCD820 residual current devices											
Versions											
• 3-pole											
✓	--	--	--	--	--		3VA9053-0SB10		1	1 unit	1CB
--	✓	✓	--	--	--		3VA9253-0SB10		1	1 unit	1CB
--	--	--	✓	--	--		3VA9303-0SB40		1	1 unit	1CB
• 4-pole											
✓	--	--	--	--	--		3VA9054-0SB10		1	1 unit	1CB
--	✓	✓	--	--	--		3VA9254-0SB10		1	1 unit	1CB
--	--	--	✓	--	--		3VA9304-0SB40		1	1 unit	1CB
Cover frame for front mounted rotary operator											
✓	--	--	--	--	--		3VA9053-0SB10		1	1 unit	1CB
--	✓	--	--	--	--		3VA9253-0SB10		1	1 unit	1CB
--	--	✓	--	--	--		3VA9163-0SB10		1	1 unit	1CB
--	--	--	✓	--	--		3VA9383-0SB10		1	1 unit	1CB
--	--	--	--	✓	--		3VA9503-0SB50		1	1 unit	1CB
Cover frame for door feedthrough											
--	✓	✓	--	--	--		3VA9253-0SB20		1	1 unit	1CB
--	--	--	✓	--	--		3VA9353-0SB20		1	1 unit	1CB
Labeling plate for cover frame											
							3VA9087-0SX10		1	10 units	1CB
											
3VA9087-0SX10											

Molded Case Circuit Breakers

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

Other

Version	For molded case circuit breakers/ SD Article No. stem						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	3VA14 3VA24	d					

Adapter for DIN rails for 3VA1 molded case circuit breakers



Adapter for DIN rails for 3VA1 molded case circuit breakers

Versions

• 1-pole ¹⁾	✓	--	--	--	3VA9181-0SH10	1	1 unit	1CB
• 2-pole	✓	--	--	--	3VA9182-0SH10	1	1 unit	1CB
• 3 and 4-pole	✓	--	--	--	3VA9187-0SH10	1	1 unit	1CB
• 3 and 4-pole in conjunction with RCD310 or RCD510	✓	--	--	--	3VA9187-0SH20	1	1 unit	1CB

Adapter for 60 mm busbar system (8US)



Busbar adapter systems with 40 mm or 60 mm busbar center-to-center spacing with components for busbar runs, adapters and switching device holders for individual equipment possibilities, devices with an integrated adapter, as well as accessories and flat copper profiles. Observe the short-circuit strength of the busbar system. Short-circuit strength greater than 50 kA on request.

For more information, see chapter "Busbar Systems".

Mounting screw kit



Mounting screw kit

Versions

• For fixed-mounted molded case circuit breakers	✓	--	--	--	3VA9111-0SS10	1	1 unit	1CB
- 1-pole	✓	--	--	--	3VA9116-0SS10	1	1 unit	1CB
- 2 and 3-pole (apart from 125 A/160 A with 55 kA and 70 kA)	✓	✓	--	--	3VA9116-0SS10	1	1 unit	1CB
- 3-pole (125 A/160 A with 55 kA and 70 kA) and 4-pole	✓	✓	--	--	3VA9114-0SS10	1	1 unit	1CB
- 3-pole	--	--	✓	--	3VA9126-0SS10	1	1 unit	1CB
- 4-pole	--	--	✓	--	3VA9124-0SS10	1	1 unit	1CB
- 3 and 4-pole	--	--	--	✓	3VA9328-0SS10	1	1 unit	1CB
• For plug-in units	✓	✓	--	--	3VA9114-0SS10	1	1 unit	1CB
• For plug-in and draw-out units	--	✓	--	--	3VA9114-0SS10	1	1 unit	1CB
	--	--	✓	--	3VA9124-0SS10	1	1 unit	1CB
	--	--	--	✓	3VA9328-0SS10	1	1 unit	1CB

For 3VA15/3VA25 molded case circuit breakers:

- Spare part
- 4 screws
- 4 nuts
- metric thread

3VA9517-0SS10

1 1 unit 1CB

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

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

Notes

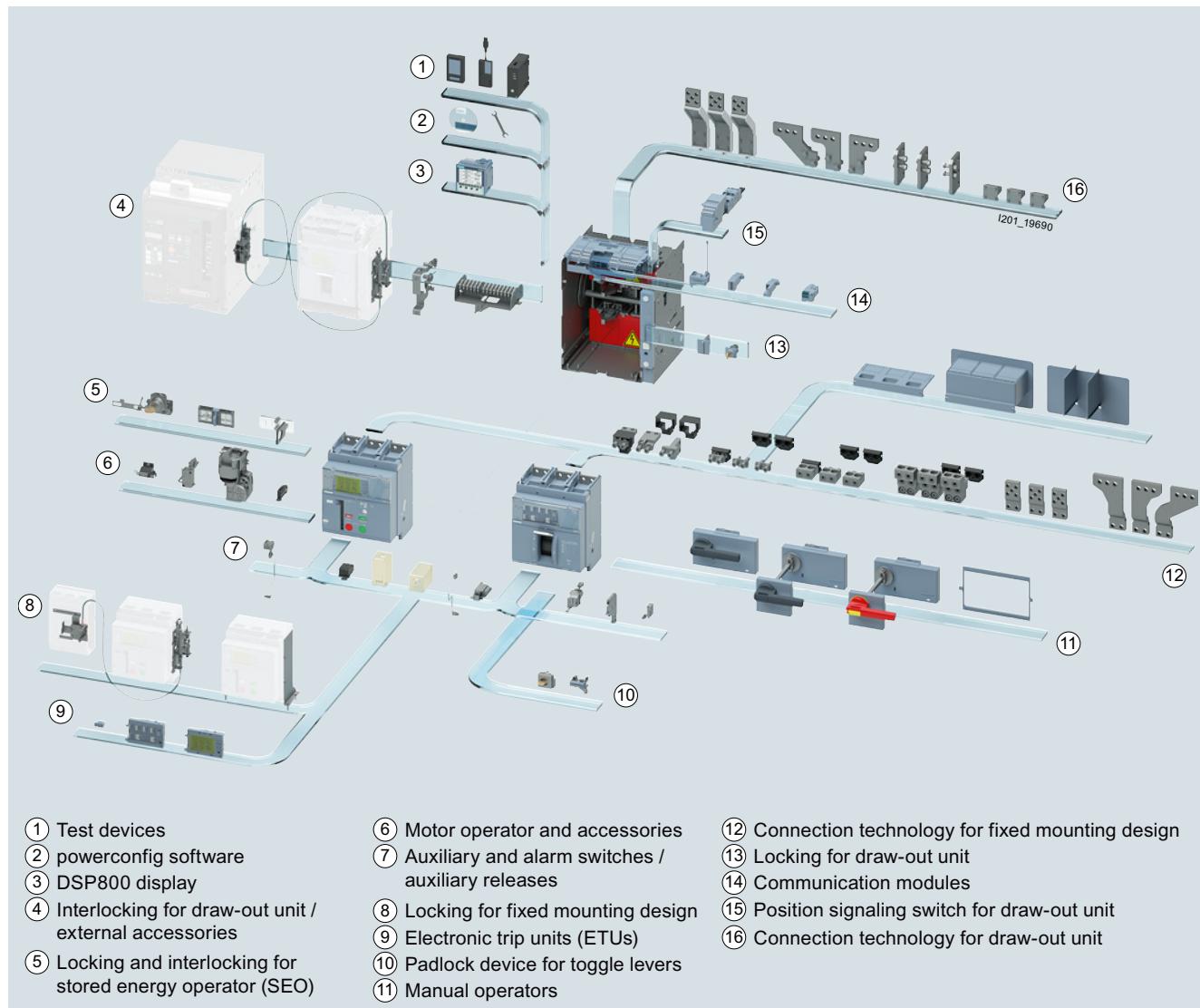
2

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers **NEW**

Introduction

Overview

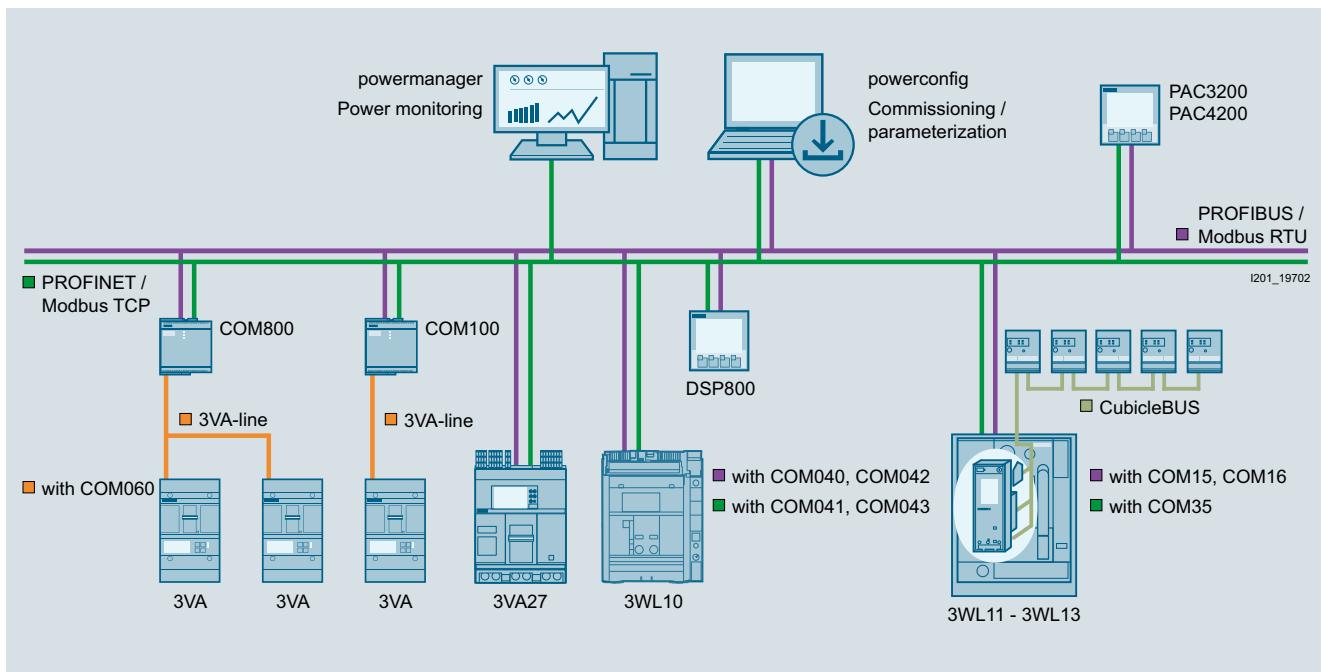


Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

Introduction

2



Characteristics

- Integrated communication concept together with the 3VA27 molded case circuit breakers and the 7KM PAC measuring devices. The communication function is available from 25 A to 1600 A (ACB 3WL10 from 630 A ... 1250 A)
- The 3VA27 molded case circuit breakers can be equipped with an optional communication function. The Electronic Trip Units ETU650 or ETU660 support the communication function.
- The communication modules support Modbus TCP and Modbus RTU.
- The high level of modularity of the molded case circuit breakers and accessories allows easy retrofitting of all communication components. Two different communication modules can be used at the same time.
- Simple integration into power monitoring systems with the Basic or Advanced modular metering functions according to IEC 61557-12 for Electronic Trip Units of the 6-series.

- Simple integration into plant monitoring systems for monitoring status / measured values / alarms and warnings / diagnostics / maintenance.
- Significant additional benefits for the switchboard due to the possibility of connecting internal and external input and output modules to the 3VA27 molded case circuit breaker.
- Innovative software products for commissioning, testing, parameterization, operation, monitoring, documentation and diagnostics of molded case circuit breakers, locally via display, test or gateway devices, or via the communication modules.
- Integration of the molded case circuit breakers into the Totally Integrated Power (TIP) solutions.

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers **NEW**

Introduction

Benefits

Low space requirements

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

Reduced complexity

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

Modular design

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

Flexible connection and mounting options

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

Retrofittable modules for Electronic Trip Units

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

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

Communication/metering functions

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

Application

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

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

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

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

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

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

New standards in CAx and engineering support

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

Extended protection functions of the Electronic Trip Unit

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

Standards

The 3VA27 molded case circuit breakers comply with:

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

Note for non-automatic air circuit breakers

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

Molded Case Circuit Breakers

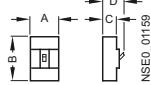
NEW 3VA27 Molded Case Circuit Breakers

Introduction

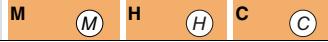
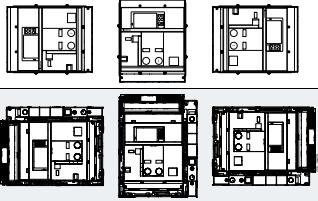
2

Technical specifications

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



Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****Introduction**

Breaking capacity				
Mounting position	 			
Switching frequency				
Endurance				
Power loss	Fixed-mounted version	W	800 A: 19.3 W per phase 60 W per device	
		W	1000 A: 30 W per phase 90 W per device	
		W	1250 A: 47 W per phase 141 W per device	
	Withdrawable version	W	1600 A: 77 W per phase 231 W per device	
		W	800 A: 35.3 W per phase 106 W per device	
		W	1000 A: 55 W per phase 165 W per device	
		W	1250 A: 86 W per phase 258 W per device	
		W	1600 A: 141 W per phase 423 W per device	

Undervoltage release (UVR)

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

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

Note

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

Technical specifications

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

Time-delay device (adjustable) for UVR

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

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

Note

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

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

Technical specifications

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

Closing coil (CC) / shunt release (ST)

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

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

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

Technical specifications

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

Remote reset magnet (RR)

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

Technical specifications

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

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

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers **NEW**

Introduction

Spring charging motor (MO)

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

Technical specifications

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

Spring charged signaling switch (S21)

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

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

Technical specifications

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

Position signaling switch PSS for guide frame

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

Technical specifications

Configuration	Position auxiliary contacts - PSS 6 auxiliary contacts	
Standard contact	✓	
Contact for digital signal	✓	
	Standard contact	Contact for digital signal
Type	Changeover contact	Changeover contact
Smallest load	100 mA at 24 V	1 mA at 5 V
Breaking capacity	DC 24 V 125 V 250 V AC 250 V 400 V	0.1 A -- 0.15 A at 0 ms 5 A at p.f. 1 5 A at p.f. 0.7 5 A at p.f. 0.3 3 A at p.f. 1 2 A at p.f. 0.7 1 A at p.f. 0.3

Ready-to-close signaling switch (RTC)

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

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

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

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

Technical specifications

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

Auxiliary switch AUX

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

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

Technical specifications

Configuration	AUX 4 CO	AUX 15 CO	
	4 auxiliary contacts	15 additional external auxiliary contacts	
Type	Standard contact	Contact for digital signal	
Standard contact	✓	✓	
Contact for digital signal	✓	✓	
Mixed	✓	--	
Smallest load	100 mA at 24 V	1 mA at 5 V	
Breaking capacity	DC 24 V 125 V 250 V	-- -- --	
	AC 250 V	0.1 A 0.3 A at 10 ms 0.15 A at 10 ms	
	400 V	5 A at p.f. 1 5 A at p.f. 0.7 5 A at p.f. 0.3 3 A at p.f. 1 2 A at p.f. 0.7 1 A at p.f. 0.3	-- -- -- -- -- --

Tripped signaling switch (TAS)

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

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

Tripped signaling switch (S24)

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

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

Technical specifications

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

Tripped signaling switch via auxiliary release (S25)

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

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

Leading changeover switch (S26)

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

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

Breaker Connect module, external power supply

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

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

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

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

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

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers **NEW**

Introduction

Actuator module (COM ACT)

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

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

Position signaling switch communication (COM PSS)

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

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

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

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

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

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

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

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

Internal digital I/O module IOM040

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

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

External digital I/O module IOM300

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

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

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

Function overview of the electronic trip system

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

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****Function overview of the electronic trip system**

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G

Protection functions	ETU320 LI	ETU350 LSI	ETU360 LSIG	ETU650 LSI	ETU660 LSIG
GF: Ground-fault protection I_g Protection function can be enabled/disabled	--	--	✓	--	✓
	--	--	✓	--	✓
	--	--	$t = \text{const.} / I^2 t$; default $I^2 t$	--	$t = \text{const.} / I^2 t$; default const.
	--	--	0.1; 0.2; 0.3; 0.4; 0.5; 0.6; 0.7; 0.8; 1; default 0.1 (in steps of 0.001)	--	0.1 - 1; default 0.1; (in steps of 0.001)
	--	--	0.1; 0.2; 0.4; 0.6; 0.8 s; (fixed delay)	--	0.1 s - 1 s; default 0.1 s; (in steps of 0.05 s)
	--	--	0.1; 0.2; 0.4; 0.6; 0.8 s ($I^2 t$ dependent); default 0.1 ($I^2 t$)	--	0.1 s - 1 s; (in steps of 0.05 s)
	--	--	--	--	50% - 90% x I_r ; default 90%; (in steps of 1%)
	--	--	--	--	✓
	--	--	--	--	✓ Default OFF
	--	--	--	--	✓ Default OFF
Setting range of the switch-on phase (inrush adaptation)	--	--	--	--	0.10 - 30 s; default 0.1; (in steps of 0.01)
Extended parameter range with external auxiliary power supply of the ETU	--	--	I_g full range, otherwise I_g limited to min. 0.2 I_n or 0.25 I_p (for $I_n = 400$ A)	--	I_g full range, otherwise I_g limited to min. 0.2 I_n or 0.25 I_p (for $I_n = 400$ A) - t_g instantaneous possible
ZSI G function test	--	--	--	--	--

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

Function overview of the electronic trip system

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Protection functions	ETU320 LI	ETU350 LSI	ETU360 LSIG	ETU650 LSI	ETU660 LSIG
G direct	GF direct: Ground-fault protection direct measurement Protection function can be selected R_c - Residual current protection (with summation current transformer) G_{ret} - Ground-fault return (transformer in star point)	--	--	--	--
	R_c - Residual current protection (with summation current transformer)	--	--	--	✓ Alternative to GF and G_{ret} ; default OFF; can be activated with rating plug R_c & metering function Advanced
	Setting range of residual current operating value I_n [A]	--	--	--	$I_n = 3; 5; 7; 10; 20; 30$ A; Default OFF; can be activated with rating plug R_c & metering function Advanced
	Setting range of delay time t_n	--	--	--	$t_n = 0.06 - 0.1 - 0.2 - 0.3 - 0.4 - 0.5 - 0.8$ s
	G_{ret} - ground-fault return (transformer in star point)	--	--	--	✓ Alternative to GF and R_c ; external power supply required.
	Design of G_{ret} transformer (ground fault return CT - I_{CT_rating})	--	--	--	100 A; 250 A; Default 100 A
	Setting range of ground-fault return operating value $I_{g_ret} = I_{CT_rating} \times \dots$	--	--	--	$0.1 - 1 \times I_{CT_rating}$; default 0.1; (in steps of 0.001)
	Setting range of delay time t_{g_ret} (fixed) $t = k$	--	--	--	0.1 s - 1 s; default 0.1 s; (in steps of 0.05 s)
	Setting range of delay time t_{g_ret} at I^2t (reference point $4 \times I_n$)	--	--	--	0.1 s - 1 s; (in steps of 0.05 s)
	Ground-fault return pre-alarm	--	--	--	50% - 90% $\times I_n$; Default 90%; (in steps of 1%)
DAS	Switchover to alternative operating values with ground-fault current during the switch-on phase (inrush adaptation) for tripping characteristic $t = k$ (fixed) possible	--	--	--	✓ Default OFF
	Setting range of the switch-on phase (inrush adaptation)	--	--	--	0.10 - 30 s; default 0.1; (in steps of 0.01)
	Setting range $I_g = I_n \times \dots$ during the switch-on phase (inrush adaptation)	--	--	--	0.1 - 1; default 1; (in steps of 0.01)
	DAS protection - Arc fault mitigation mode	--	--	✓	✓
	Protection function can be enabled/disabled	--	--	✓	✓
I_{nba}	Setting range of operating value $I_{arc} = I_n \times \dots$	--	--	1.5 - 15; default 1.5; (in steps of 0.1)	1.5 - 15; default 1.5; (in steps of 0.1)
	Phase current unbalance I_{nba}	--	--	✓	✓
	Protection function can be enabled/disabled	--	--	✓	✓
	Setting range I_{nba} phase current unbalance	--	--	2% - 90%; default 50%; (in steps of 1%)	2% - 90%; default 50%; (in steps of 1%)
	Setting range for the delay time t_{nba} for phase current unbalance	--	--	0.50 - 60 s; default 10 s; (in steps of 0.5 s)	0.50 - 60 s; default 10 s; (in steps of 0.5 s)
	Enabling/disabling of tripping on phase current unbalance	--	--	✓	✓

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****Function overview of the electronic trip system**

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

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

Function overview of the electronic trip system

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

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****Function overview of the electronic trip system**

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

Molded Case Circuit Breakers
NEW 3VA27 Molded Case Circuit Breakers

Notes

2

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****3-pole, fixed-mounted versions with toggle****Selection and ordering data**

	Note: Always with S24, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 55 \text{ kA at } 415 \text{ V,}$ breaking capacity M	M	PU (UNIT, SET, M)	PS	PG
				Article No. www.siemens.com/ product?Article No.				
		A	d					
Rear vertical connection								
		800 1000 1250 1600		3VA2780-5□□01-□□□□ 3VA2710-5□□01-□□□□ 3VA2712-5□□01-□□□□ 3VA2716-5□□01-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Rear horizontal connection								
		800 1000 1250 1600		3VA2780-5□□02-□□□□ 3VA2710-5□□02-□□□□ 3VA2712-5□□02-□□□□ 3VA2716-5□□02-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Front terminal for main circuit connection								
		800 1000 1250 1600		3VA2780-5□□03-□□□□ 3VA2710-5□□03-□□□□ 3VA2712-5□□03-□□□□ 3VA2716-5□□03-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Straight bus connectors extended								
		800 1000 1250 1600		3VA2780-5□□05-□□□□ 3VA2710-5□□05-□□□□ 3VA2712-5□□05-□□□□ 3VA2716-5□□05-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Broadened bus connectors								
		800 1000 1250 1600		3VA2780-5□□06-□□□□ 3VA2710-5□□06-□□□□ 3VA2712-5□□06-□□□□ 3VA2716-5□□06-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Versions								
ETUs 3-series – Communications interface and metering function not possible								
with ETU320 (LI)								
with ETU350 (LSI)								
with ETU360 (LSIG)								
ETUs 6-series – Expandable with communications interface and metering function								
with ETU650 (LSI)								
with ETU660 (LSIG)								
Without communications interface, without metering function								
With communications interface, without metering function								
With communications interface, with Basic metering function (voltage tap at bottom)								
With communications interface, with Basic metering function (voltage tap at top)								
With communications interface, with Advanced metering function (voltage tap at bottom)								
With communications interface, with Advanced metering function (voltage tap at top)								

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

3-pole, fixed-mounted versions with toggle

2

	Note: Always with S24, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 85 \text{ kA at } 415 \text{ V},$ breaking capacity H	(H)	Article No. www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
Rear vertical connection										
		800 1000 1250 1600		3VA2780-6□□01-□□□□ 3VA2710-6□□01-□□□□ 3VA2712-6□□01-□□□□ 3VA2716-6□□01-□□□□				1	1 unit	1CB
Rear horizontal connection										
		800 1000 1250 1600		3VA2780-6□□02-□□□□ 3VA2710-6□□02-□□□□ 3VA2712-6□□02-□□□□ 3VA2716-6□□02-□□□□				1	1 unit	1CB
Front terminal for main circuit connection										
		800 1000 1250 1600		3VA2780-6□□03-□□□□ 3VA2710-6□□03-□□□□ 3VA2712-6□□03-□□□□ 3VA2716-6□□03-□□□□				1	1 unit	1CB
Straight bus connectors extended										
		800 1000 1250 1600		3VA2780-6□□05-□□□□ 3VA2710-6□□05-□□□□ 3VA2712-6□□05-□□□□ 3VA2716-6□□05-□□□□				1	1 unit	1CB
Broadened bus connectors										
		800 1000 1250 1600		3VA2780-6□□06-□□□□ 3VA2710-6□□06-□□□□ 3VA2712-6□□06-□□□□ 3VA2716-6□□06-□□□□				1	1 unit	1CB
Versions										
ETUs 3-series – Communications interface and metering function not possible with ETU320 (LI)										
with ETU350 (LSI)										
with ETU360 (LSIG)										
ETUs 6-series – Expandable with communications interface and metering function with ETU650 (LSI)										
with ETU660 (LSIG)										
Without communications interface, without metering function			A						None	
With communications interface, without metering function			B						✓	
With communications interface, with Basic metering function (voltage tap at bottom)			C						✓	
With communications interface, with Basic metering function (voltage tap at top)			D						✓	
With communications interface, with Advanced metering function (voltage tap at bottom)			E						✓	
With communications interface, with Advanced metering function (voltage tap at top)			F						✓	

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****3-pole, fixed-mounted versions with toggle**

2

	Note: Always with S24, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n\ max}$	SD	$I_{cu} 110 \text{ kA at } 415 \text{ V,}$ breaking capacity C	C	PU (UNIT, SET, M)	PS	PG
Rear vertical connection								
		800 1000 1250 1600		3VA2780-7□□01-□□□□ 3VA2710-7□□01-□□□□ 3VA2712-7□□01-□□□□ 3VA2716-7□□01-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Rear horizontal connection								
		800 1000 1250 1600		3VA2780-7□□02-□□□□ 3VA2710-7□□02-□□□□ 3VA2712-7□□02-□□□□ 3VA2716-7□□02-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Front terminal for main circuit connection								
		800 1000 1250 1600		3VA2780-7□□03-□□□□ 3VA2710-7□□03-□□□□ 3VA2712-7□□03-□□□□ 3VA2716-7□□03-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Straight bus connectors extended								
		800 1000 1250 1600		3VA2780-7□□05-□□□□ 3VA2710-7□□05-□□□□ 3VA2712-7□□05-□□□□ 3VA2716-7□□05-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Broadened bus connectors								
		800 1000 1250 1600		3VA2780-7□□06-□□□□ 3VA2710-7□□06-□□□□ 3VA2712-7□□06-□□□□ 3VA2716-7□□06-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Versions								
ETUs 3-series – Communications interface and metering function not possible with ETU320 (LI)								
with ETU350 (LSI)								
with ETU360 (LSIG)								
ETUs 6-series – Expandable with communications interface and metering function								
with ETU650 (LSI)								
with ETU660 (LSIG)								
Without communications interface, without metering function			A				None	
With communications interface, without metering function			B				✓	
With communications interface, with Basic metering function (voltage tap at bottom)			C				✓	
With communications interface, with Basic metering function (voltage tap at top)			D				✓	
With communications interface, with Advanced metering function (voltage tap at bottom)			E				✓	
With communications interface, with Advanced metering function (voltage tap at top)			F				✓	

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

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

	Note: Always with S24, RTC, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n\ max}$	SD	$I_{cu} 55 \text{ kA at } 415 \text{ V},$ breaking capacity M	M	PU (UNIT, SET, M)	PS	PG
							Article No. www.siemens.com/ product?Article No.	Basic price per PU
Rear vertical connection								
		800 1000 1250 1600		3VA2780-1□□01-□□□□ 3VA2710-1□□01-□□□□ 3VA2712-1□□01-□□□□ 3VA2716-1□□01-□□□□			1 1 1 1	1 unit 1 unit 1 unit 1 unit
Rear horizontal connection								
		800 1000 1250 1600		3VA2780-1□□02-□□□□ 3VA2710-1□□02-□□□□ 3VA2712-1□□02-□□□□ 3VA2716-1□□02-□□□□			1 1 1 1	1 unit 1 unit 1 unit 1 unit
Front terminal for main circuit connection								
		800 1000 1250 1600		3VA2780-1□□03-□□□□ 3VA2710-1□□03-□□□□ 3VA2712-1□□03-□□□□ 3VA2716-1□□03-□□□□			1 1 1 1	1 unit 1 unit 1 unit 1 unit
Straight bus connectors extended								
		800 1000 1250 1600		3VA2780-1□□05-□□□□ 3VA2710-1□□05-□□□□ 3VA2712-1□□05-□□□□ 3VA2716-1□□05-□□□□			1 1 1 1	1 unit 1 unit 1 unit 1 unit
Broadened bus connectors								
		800 1000 1250 1600		3VA2780-1□□06-□□□□ 3VA2710-1□□06-□□□□ 3VA2712-1□□06-□□□□ 3VA2716-1□□06-□□□□			1 1 1 1	1 unit 1 unit 1 unit 1 unit
Versions								
ETUs 3-series – Communications interface and metering function not possible with ETU320 (LI)								
				A	B			✓
with ETU350 (LSI)								
				A	C			✓
with ETU360 (LSIG)								
				A	D			✓
ETUs 6-series – Expandable with communications interface and metering function with ETU650 (LSI)								
				E				✓
with ETU660 (LSIG)								
				F				✓
				A		None		
Without communications interface, without metering function				B				✓
With communications interface, without metering function				C				✓
With communications interface, with Basic metering function (voltage tap at bottom)				D				✓
With communications interface, with Basic metering function (voltage tap at top)				E				✓
With communications interface, with Advanced metering function (voltage tap at bottom)				F				✓
With communications interface, with Advanced metering function (voltage tap at top)								

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****3-pole, fixed-mounted versions with stored energy operating mechanism**

2

	Note: Always with S24, RTC, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n\ max}$	SD	$I_{cu} 85 \text{ kA at } 415 \text{ V, breaking capacity H}$	(H)	Article No. www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
Rear vertical connection										
		800 1000 1250 1600		3VA2780-2□□01-□□□□ 3VA2710-2□□01-□□□□ 3VA2712-2□□01-□□□□ 3VA2716-2□□01-□□□□				1	1 unit	1CB
Rear horizontal connection										
		800 1000 1250 1600		3VA2780-2□□02-□□□□ 3VA2710-2□□02-□□□□ 3VA2712-2□□02-□□□□ 3VA2716-2□□02-□□□□				1	1 unit	1CB
Front terminal for main circuit connection										
		800 1000 1250 1600		3VA2780-2□□03-□□□□ 3VA2710-2□□03-□□□□ 3VA2712-2□□03-□□□□ 3VA2716-2□□03-□□□□				1	1 unit	1CB
Straight bus connectors extended										
		800 1000 1250 1600		3VA2780-2□□05-□□□□ 3VA2710-2□□05-□□□□ 3VA2712-2□□05-□□□□ 3VA2716-2□□05-□□□□				1	1 unit	1CB
Broadened bus connectors										
		800 1000 1250 1600		3VA2780-2□□06-□□□□ 3VA2710-2□□06-□□□□ 3VA2712-2□□06-□□□□ 3VA2716-2□□06-□□□□				1	1 unit	1CB
Versions										
ETUs 3-series – Communications interface and metering function not possible with ETU320 (LI)										
with ETU350 (LSI)										
with ETU360 (LSIG)										
ETUs 6-series – Expandable with communications interface and metering function										
with ETU650 (LSI)										
with ETU660 (LSIG)										
Without communications interface, without metering function										
With communications interface, without metering function										
With communications interface, with Basic metering function (voltage tap at bottom)										
With communications interface, with Basic metering function (voltage tap at top)										
With communications interface, with Advanced metering function (voltage tap at bottom)										
With communications interface, with Advanced metering function (voltage tap at top)										

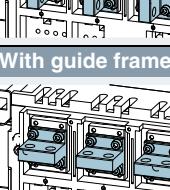
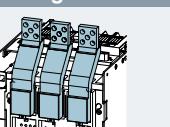
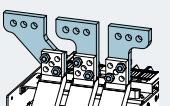
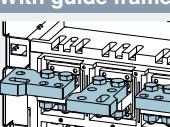
Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

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

	Note: Always with S24, RTC, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 110 \text{ kA at } 415 \text{ V,}$ breaking capacity C	C	PU (UNIT, SET, M)	PS	PG
Rear vertical connection								
		800 1000 1250 1600		3VA2780-3□□01-□□□□ 3VA2710-3□□01-□□□□ 3VA2712-3□□01-□□□□ 3VA2716-3□□01-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Rear horizontal connection								
		800 1000 1250 1600		3VA2780-3□□02-□□□□ 3VA2710-3□□02-□□□□ 3VA2712-3□□02-□□□□ 3VA2716-3□□02-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Front terminal for main circuit connection								
		800 1000 1250 1600		3VA2780-3□□03-□□□□ 3VA2710-3□□03-□□□□ 3VA2712-3□□03-□□□□ 3VA2716-3□□03-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Straight bus connectors extended								
		800 1000 1250 1600		3VA2780-3□□05-□□□□ 3VA2710-3□□05-□□□□ 3VA2712-3□□05-□□□□ 3VA2716-3□□05-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Broadened bus connectors								
		800 1000 1250 1600		3VA2780-3□□06-□□□□ 3VA2710-3□□06-□□□□ 3VA2712-3□□06-□□□□ 3VA2716-3□□06-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Versions								
ETUs 3-series – Communications interface and metering function not possible with ETU320 (LI)								
with ETU350 (LSI)								
with ETU360 (LSIG)								
ETUs 6-series – Expandable with communications interface and metering function with ETU650 (LSI)								
with ETU660 (LSIG)								
Without communications interface, without metering function			A				None	
With communications interface, without metering function			B				✓	
With communications interface, with Basic metering function (voltage tap at bottom)			C				✓	
With communications interface, with Basic metering function (voltage tap at top)			D				✓	
With communications interface, with Advanced metering function (voltage tap at bottom)			E				✓	
With communications interface, with Advanced metering function (voltage tap at top)			F				✓	

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****3-pole, withdrawable versions with toggle**

	Note: Always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 55 \text{ kA at } 415 \text{ V,}$ breaking capacity M	(M)	PU (UNIT, SET, M)	PS	PG
			A	d				
Withdrawable breaker version without guide frame								
		800 1000 1250 1600		3VA2780-5□□30-□□□□ 3VA2710-5□□30-□□□□ 3VA2712-5□□30-□□□□ 3VA2716-5□□30-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear vertical connection								
		800 1000 1250 1600		3VA2780-5□□31-□□□□ 3VA2710-5□□31-□□□□ 3VA2712-5□□31-□□□□ 3VA2716-5□□31-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear horizontal connection								
		800 1000 1250 1600		3VA2780-5□□32-□□□□ 3VA2710-5□□32-□□□□ 3VA2712-5□□32-□□□□ 3VA2716-5□□32-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, front straight bus connectors extended								
		800 1000 1250 1600		3VA2780-5□□35-□□□□ 3VA2710-5□□35-□□□□ 3VA2712-5□□35-□□□□ 3VA2716-5□□35-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, broadened bus connectors								
		800 1000 1250 1600		3VA2780-5□□36-□□□□ 3VA2710-5□□36-□□□□ 3VA2712-5□□36-□□□□ 3VA2716-5□□36-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear broadened bus connectors								
		800 1000 1250 1600		3VA2780-5□□37-□□□□ 3VA2710-5□□37-□□□□ 3VA2712-5□□37-□□□□ 3VA2716-5□□37-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Versions								
ETUs 3-series – Communications interface and metering function not possible								
with ETU320 (LI)				A	B			✓
with ETU350 (LSI)				A	C			✓
with ETU360 (LSIG)				A	D			✓
ETUs 6-series – Expandable with communications interface and metering function								
with ETU650 (LSI)				E				✓
with ETU660 (LSIG)				F				✓
Without communications interface, without metering function				A			None	
With communications interface, without metering function				B				✓
With communications interface, with Basic metering function (voltage tap at bottom)				C				✓
With communications interface, with Basic metering function (voltage tap at top)				D				✓
With communications interface, with Advanced metering function (voltage tap at bottom)				E				✓
With communications interface, with Advanced metering function (voltage tap at top)				F				✓

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

3-pole, withdrawable versions with toggle

2

	Note: Always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 85 \text{ kA at } 415 \text{ V,}$ breaking capacity H	(H)	PU (UNIT, SET, M)	PS	PG
						Article No. www.siemens.com/ product?Article No.	Basic price per PU	
Withdrawable breaker version without guide frame								
		800 1000 1250 1600		3VA2780-6□□30-□□□□ 3VA2710-6□□30-□□□□ 3VA2712-6□□30-□□□□ 3VA2716-6□□30-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear vertical connection								
		800 1000 1250 1600		3VA2780-6□□31-□□□□ 3VA2710-6□□31-□□□□ 3VA2712-6□□31-□□□□ 3VA2716-6□□31-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear horizontal connection								
		800 1000 1250 1600		3VA2780-6□□32-□□□□ 3VA2710-6□□32-□□□□ 3VA2712-6□□32-□□□□ 3VA2716-6□□32-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, front straight bus connectors extended								
		800 1000 1250 1600		3VA2780-6□□35-□□□□ 3VA2710-6□□35-□□□□ 3VA2712-6□□35-□□□□ 3VA2716-6□□35-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, broadened bus connectors								
		800 1000 1250 1600		3VA2780-6□□36-□□□□ 3VA2710-6□□36-□□□□ 3VA2712-6□□36-□□□□ 3VA2716-6□□36-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear broadened bus connectors								
		800 1000 1250 1600		3VA2780-6□□37-□□□□ 3VA2710-6□□37-□□□□ 3VA2712-6□□37-□□□□ 3VA2716-6□□37-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Versions								
ETUs 3-series – Communications interface and metering function not possible							Additional price	
with ETU320 (LI)						A	B	✓
with ETU350 (LSI)						A	C	✓
with ETU360 (LSIG)						A	D	✓
ETUs 6-series – Expandable with communications interface and metering function						E		✓
with ETU650 (LSI)						F		✓
with ETU660 (LSIG)						A		None
Without communications interface, without metering function						B		✓
With communications interface, without metering function						C		✓
With communications interface, with Basic metering function (voltage tap at bottom)						D		✓
With communications interface, with Basic metering function (voltage tap at top)						E		✓
With communications interface, with Advanced metering function (voltage tap at bottom)						F		✓
With communications interface, with Advanced metering function (voltage tap at top)								✓

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****3-pole, withdrawable versions with toggle**

2

	Note: Always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 110 \text{ kA at } 415 \text{ V,}$ breaking capacity C	C	PU (UNIT, SET, M)	PS	PG
			A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU		
Withdrawable breaker version without guide frame								
		800 1000 1250 1600		3VA2780-7□□30-□□□□ 3VA2710-7□□30-□□□□ 3VA2712-7□□30-□□□□ 3VA2716-7□□30-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, rear vertical connection								
		800 1000 1250 1600		3VA2780-7□□31-□□□□ 3VA2710-7□□31-□□□□ 3VA2712-7□□31-□□□□ 3VA2716-7□□31-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, rear horizontal connection								
		800 1000 1250 1600		3VA2780-7□□32-□□□□ 3VA2710-7□□32-□□□□ 3VA2712-7□□32-□□□□ 3VA2716-7□□32-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, front straight bus connectors extended								
		800 1000 1250 1600		3VA2780-7□□35-□□□□ 3VA2710-7□□35-□□□□ 3VA2712-7□□35-□□□□ 3VA2716-7□□35-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, broadened bus connectors								
		800 1000 1250 1600		3VA2780-7□□36-□□□□ 3VA2710-7□□36-□□□□ 3VA2712-7□□36-□□□□ 3VA2716-7□□36-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, rear broadened bus connectors								
		800 1000 1250 1600		3VA2780-7□□37-□□□□ 3VA2710-7□□37-□□□□ 3VA2712-7□□37-□□□□ 3VA2716-7□□37-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
Versions								
ETUs 3-series – Communications interface and metering function not possible							Additional price	
with ETU320 (LI)						A B	✓	
with ETU350 (LSI)						A C	✓	
with ETU360 (LSIG)						A D	✓	
ETUs 6-series – Expandable with communications interface and metering function						E	✓	
with ETU650 (LSI)						F	✓	
with ETU660 (LSIG)						A	None	
Without communications interface, without metering function						B	✓	
With communications interface, without metering function						C	✓	
With communications interface, with Basic metering function (voltage tap at bottom)						D	✓	
With communications interface, with Basic metering function (voltage tap at top)						E	✓	
With communications interface, with Advanced metering function (voltage tap at bottom)						F	✓	
With communications interface, with Advanced metering function (voltage tap at top)								

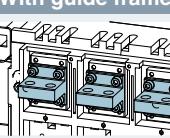
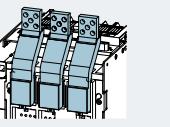
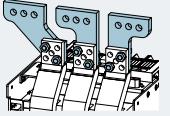
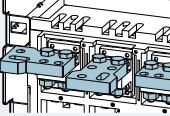
Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

3-pole, withdrawable versions with stored energy operating mechanism

	Note: Always with S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 55 \text{ kA at } 415 \text{ V, breaking capacity M}$	(M)	PU (UNIT, SET, M)	PS	PG
			A	d				
Withdrawable breaker version without guide frame								
		800 1000 1250 1600		3VA2780-1□□30-□□□□ 3VA2710-1□□30-□□□□ 3VA2712-1□□30-□□□□ 3VA2716-1□□30-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear vertical connection								
		800 1000 1250 1600		3VA2780-1□□31-□□□□ 3VA2710-1□□31-□□□□ 3VA2712-1□□31-□□□□ 3VA2716-1□□31-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear horizontal connection								
		800 1000 1250 1600		3VA2780-1□□32-□□□□ 3VA2710-1□□32-□□□□ 3VA2712-1□□32-□□□□ 3VA2716-1□□32-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, front straight bus connectors extended								
		800 1000 1250 1600		3VA2780-1□□35-□□□□ 3VA2710-1□□35-□□□□ 3VA2712-1□□35-□□□□ 3VA2716-1□□35-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, broadened bus connectors								
		800 1000 1250 1600		3VA2780-1□□36-□□□□ 3VA2710-1□□36-□□□□ 3VA2712-1□□36-□□□□ 3VA2716-1□□36-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear broadened bus connectors								
		800 1000 1250 1600		3VA2780-1□□37-□□□□ 3VA2710-1□□37-□□□□ 3VA2712-1□□37-□□□□ 3VA2716-1□□37-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Versions								
ETUs 3-series – Communications interface and metering function not possible								
with ETU320 (LI)				A	B			✓
with ETU350 (LSI)				A	C			✓
with ETU360 (LSIG)				A	D			✓
ETUs 6-series – Expandable with communications interface and metering function								
with ETU650 (LSI)				E				✓
with ETU660 (LSIG)				F				✓
Without communications interface, without metering function				A		None		
With communications interface, without metering function				B				✓
With communications interface, with Basic metering function (voltage tap at bottom)				C				✓
With communications interface, with Basic metering function (voltage tap at top)				D				✓
With communications interface, with Advanced metering function (voltage tap at bottom)				E				✓
With communications interface, with Advanced metering function (voltage tap at top)				F				✓

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****3-pole, withdrawable versions with stored energy operating mechanism**

	Note: Always with S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 85 \text{ kA at } 415 \text{ V, breaking capacity H}$ 	Article No. www.siemens.com/ product?Article No.	Basic price per PU	PU (UNIT, SET, M)	PS	PG
Withdrawable breaker version without guide frame									
		800 1000 1250 1600			3VA2780-2□□30-□□□□ 3VA2710-2□□30-□□□□ 3VA2712-2□□30-□□□□ 3VA2716-2□□30-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear vertical connection									
		800 1000 1250 1600			3VA2780-2□□31-□□□□ 3VA2710-2□□31-□□□□ 3VA2712-2□□31-□□□□ 3VA2716-2□□31-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear horizontal connection									
		800 1000 1250 1600			3VA2780-2□□32-□□□□ 3VA2710-2□□32-□□□□ 3VA2712-2□□32-□□□□ 3VA2716-2□□32-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, front straight bus connectors extended									
		800 1000 1250 1600			3VA2780-2□□35-□□□□ 3VA2710-2□□35-□□□□ 3VA2712-2□□35-□□□□ 3VA2716-2□□35-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, broadened bus connectors									
		800 1000 1250 1600			3VA2780-2□□36-□□□□ 3VA2710-2□□36-□□□□ 3VA2712-2□□36-□□□□ 3VA2716-2□□36-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear broadened bus connectors									
		800 1000 1250 1600			3VA2780-2□□37-□□□□ 3VA2710-2□□37-□□□□ 3VA2712-2□□37-□□□□ 3VA2716-2□□37-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Versions									
ETUs 3-series – Communications interface and metering function not possible									
with ETU320 (LI)					A			✓	
with ETU350 (LSI)					A	C		✓	
with ETU360 (LSIG)					A	D		✓	
ETUs 6-series – Expandable with communications interface and metering function									
with ETU650 (LSI)					E			✓	
with ETU660 (LSIG)					F			✓	
Without communications interface, without metering function					A		None		
With communications interface, without metering function					B			✓	
With communications interface, with Basic metering function (voltage tap at bottom)					C			✓	
With communications interface, with Basic metering function (voltage tap at top)					D			✓	
With communications interface, with Advanced metering function (voltage tap at bottom)					E			✓	
With communications interface, with Advanced metering function (voltage tap at top)					F			✓	

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

3-pole, withdrawable versions with stored energy operating mechanism

2

	Note: Always with S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 110 \text{ kA at } 415 \text{ V, breaking capacity C}$	C	PU (UNIT, SET, M)	PS	PG
		A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU			
Withdrawable breaker version without guide frame								
		800 1000 1250 1600		3VA2780-3□□30-□□□□ 3VA2710-3□□30-□□□□ 3VA2712-3□□30-□□□□ 3VA2716-3□□30-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, rear vertical connection								
		800 1000 1250 1600		3VA2780-3□□31-□□□□ 3VA2710-3□□31-□□□□ 3VA2712-3□□31-□□□□ 3VA2716-3□□31-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, rear horizontal connection								
		800 1000 1250 1600		3VA2780-3□□32-□□□□ 3VA2710-3□□32-□□□□ 3VA2712-3□□32-□□□□ 3VA2716-3□□32-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, front straight bus connectors extended								
		800 1000 1250 1600		3VA2780-3□□35-□□□□ 3VA2710-3□□35-□□□□ 3VA2712-3□□35-□□□□ 3VA2716-3□□35-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, broadened bus connectors								
		800 1000 1250 1600		3VA2780-3□□36-□□□□ 3VA2710-3□□36-□□□□ 3VA2712-3□□36-□□□□ 3VA2716-3□□36-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, rear broadened bus connectors								
		800 1000 1250 1600		3VA2780-3□□37-□□□□ 3VA2710-3□□37-□□□□ 3VA2712-3□□37-□□□□ 3VA2716-3□□37-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
Versions								
ETUs 3-series – Communications interface and metering function not possible								
with ETU320 (LI)			A	B			✓	
with ETU350 (LSI)			A	C			✓	
with ETU360 (LSIG)			A	D			✓	
ETUs 6-series – Expandable with communications interface and metering function)								
with ETU650 (LSI)			E				✓	
with ETU660 (LSIG)			F				✓	
Without communications interface, without metering function			A			None		
With communications interface, without metering function			B			✓		
With communications interface, with Basic metering function (voltage tap at bottom)			C			✓		
With communications interface, with Basic metering function (voltage tap at top)			D			✓		
With communications interface, with Advanced metering function (voltage tap at bottom)			E			✓		
With communications interface, with Advanced metering function (voltage tap at top)			F			✓		

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****4-pole, fixed-mounted versions with toggle**

2

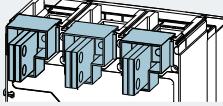
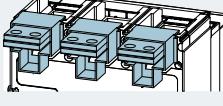
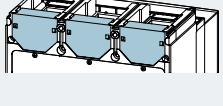
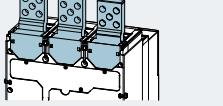
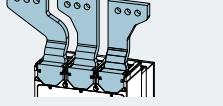
	Note: Always with S24, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n\ max}$	SD	$I_{cu} 55 \text{ kA at } 415 \text{ V},$ breaking capacity M	M	PU (UNIT, SET, M)	PS	PG
Rear vertical connection								
	Neutral left	800 1000 1250 1600		3VA2780-5□□11-□□□□ 3VA2710-5□□11-□□□□ 3VA2712-5□□11-□□□□ 3VA2716-5□□11-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-5□□21-□□□□ 3VA2710-5□□21-□□□□ 3VA2712-5□□21-□□□□ 3VA2716-5□□21-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
Rear horizontal connection								
	Neutral left	800 1000 1250 1600		3VA2780-5□□12-□□□□ 3VA2710-5□□12-□□□□ 3VA2712-5□□12-□□□□ 3VA2716-5□□12-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-5□□22-□□□□ 3VA2710-5□□22-□□□□ 3VA2712-5□□22-□□□□ 3VA2716-5□□22-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
Front terminal for main circuit connection								
	Neutral left	800 1000 1250 1600		3VA2780-5□□13-□□□□ 3VA2710-5□□13-□□□□ 3VA2712-5□□13-□□□□ 3VA2716-5□□13-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-5□□23-□□□□ 3VA2710-5□□23-□□□□ 3VA2712-5□□23-□□□□ 3VA2716-5□□23-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
Front straight bus connectors extended								
	Neutral left	800 1000 1250 1600		3VA2780-5□□15-□□□□ 3VA2710-5□□15-□□□□ 3VA2712-5□□15-□□□□ 3VA2716-5□□15-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-5□□25-□□□□ 3VA2710-5□□25-□□□□ 3VA2712-5□□25-□□□□ 3VA2716-5□□25-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
Broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-5□□16-□□□□ 3VA2710-5□□16-□□□□ 3VA2712-5□□16-□□□□ 3VA2716-5□□16-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-5□□26-□□□□ 3VA2710-5□□26-□□□□ 3VA2712-5□□26-□□□□ 3VA2716-5□□26-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
Versions								
ETUs 3-series – Communications interface and metering function not possible								
with ETU320 (LI)				A	B		✓	
with ETU350 (LSI)				A	C		✓	
with ETU360 (LSIG)				A	D		✓	
ETUs 6-series – Expandable with communications interface and metering function)								
with ETU650 (LSI)				E			✓	
with ETU660 (LSIG)				F			✓	
Without communications interface, without metering function				A		None		
With communications interface, without metering function				B			✓	
With communications interface, with Basic metering function (voltage tap at bottom)				C			✓	
With communications interface, with Basic metering function (voltage tap at top)				D			✓	
With communications interface, with Advanced metering function (voltage tap at bottom)				E			✓	
With communications interface, with Advanced metering function (voltage tap at top)				F			✓	

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

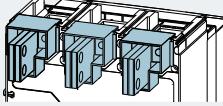
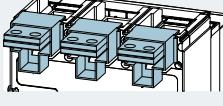
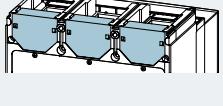
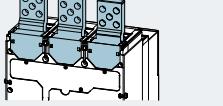
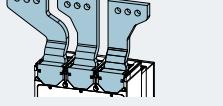
4-pole, fixed-mounted versions with toggle

2

	Note: Always with S24, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n\ max}$	SD	$I_{cu} 85 \text{ kA at } 415 \text{ V},$ breaking capacity H	(H)	PU (UNIT, SET, M)	PS	PG
			A	d				
Rear vertical connection								
		Neutral left	800 1000 1250 1600	3VA2780-6□□11-□□□□ 3VA2710-6□□11-□□□□ 3VA2712-6□□11-□□□□ 3VA2716-6□□11-□□□□		1	1 unit	1CB
		Neutral right	800 1000 1250 1600	3VA2780-6□□21-□□□□ 3VA2710-6□□21-□□□□ 3VA2712-6□□21-□□□□ 3VA2716-6□□21-□□□□		1	1 unit	1CB
Rear horizontal connection								
		Neutral left	800 1000 1250 1600	3VA2780-6□□12-□□□□ 3VA2710-6□□12-□□□□ 3VA2712-6□□12-□□□□ 3VA2716-6□□12-□□□□		1	1 unit	1CB
		Neutral right	800 1000 1250 1600	3VA2780-6□□22-□□□□ 3VA2710-6□□22-□□□□ 3VA2712-6□□22-□□□□ 3VA2716-6□□22-□□□□		1	1 unit	1CB
Front terminal for main circuit connection								
		Neutral left	800 1000 1250 1600	3VA2780-6□□13-□□□□ 3VA2710-6□□13-□□□□ 3VA2712-6□□13-□□□□ 3VA2716-6□□13-□□□□		1	1 unit	1CB
		Neutral right	800 1000 1250 1600	3VA2780-6□□23-□□□□ 3VA2710-6□□23-□□□□ 3VA2712-6□□23-□□□□ 3VA2716-6□□23-□□□□		1	1 unit	1CB
Front straight bus connectors extended								
		Neutral left	800 1000 1250 1600	3VA2780-6□□15-□□□□ 3VA2710-6□□15-□□□□ 3VA2712-6□□15-□□□□ 3VA2716-6□□15-□□□□		1	1 unit	1CB
		Neutral right	800 1000 1250 1600	3VA2780-6□□25-□□□□ 3VA2710-6□□25-□□□□ 3VA2712-6□□25-□□□□ 3VA2716-6□□25-□□□□		1	1 unit	1CB
Broadened bus connectors								
		Neutral left	800 1000 1250 1600	3VA2780-6□□16-□□□□ 3VA2710-6□□16-□□□□ 3VA2712-6□□16-□□□□ 3VA2716-6□□16-□□□□		1	1 unit	1CB
		Neutral right	800 1000 1250 1600	3VA2780-6□□26-□□□□ 3VA2710-6□□26-□□□□ 3VA2712-6□□26-□□□□ 3VA2716-6□□26-□□□□		1	1 unit	1CB
Versions								
ETUs 3-series – Communications interface and metering function not possible							Additional price	
with ETU320 (LI)						A	B	✓
with ETU350 (LSI)						A	C	✓
with ETU360 (LSIG)						A	D	✓
ETUs 6-series – Expandable with communications interface and metering function						E		✓
with ETU650 (LSI)						F		✓
with ETU660 (LSIG)								
Without communications interface, without metering function						A		None
With communications interface, without metering function						B		✓
With communications interface, with Basic metering function (voltage tap at bottom)						C		✓
With communications interface, with Basic metering function (voltage tap at top)						D		✓
With communications interface, with Advanced metering function (voltage tap at bottom)						E		✓
With communications interface, with Advanced metering function (voltage tap at top)						F		✓

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****4-pole, fixed-mounted versions with toggle**

2

	Note: Always with S24, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n\ max}$	SD	$I_{cu} 110 \text{ kA at } 415 \text{ V},$ breaking capacity C	C	PU (UNIT, SET, M)	PS	PG
Rear vertical connection								
	Neutral left	800 1000 1250 1600		3VA2780-7□□11-□□□□ 3VA2710-7□□11-□□□□ 3VA2712-7□□11-□□□□ 3VA2716-7□□11-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-7□□21-□□□□ 3VA2710-7□□21-□□□□ 3VA2712-7□□21-□□□□ 3VA2716-7□□21-□□□□		1	1 unit	1CB
Rear horizontal connection								
	Neutral left	800 1000 1250 1600		3VA2780-7□□12-□□□□ 3VA2710-7□□12-□□□□ 3VA2712-7□□12-□□□□ 3VA2716-7□□12-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-7□□22-□□□□ 3VA2710-7□□22-□□□□ 3VA2712-7□□22-□□□□ 3VA2716-7□□22-□□□□		1	1 unit	1CB
Front terminal for main circuit connection								
	Neutral left	800 1000 1250 1600		3VA2780-7□□13-□□□□ 3VA2710-7□□13-□□□□ 3VA2712-7□□13-□□□□ 3VA2716-7□□13-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-7□□23-□□□□ 3VA2710-7□□23-□□□□ 3VA2712-7□□23-□□□□ 3VA2716-7□□23-□□□□		1	1 unit	1CB
Front straight bus connectors extended								
	Neutral left	800 1000 1250 1600		3VA2780-7□□15-□□□□ 3VA2710-7□□15-□□□□ 3VA2712-7□□15-□□□□ 3VA2716-7□□15-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-7□□25-□□□□ 3VA2710-7□□25-□□□□ 3VA2712-7□□25-□□□□ 3VA2716-7□□25-□□□□		1	1 unit	1CB
Broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-7□□16-□□□□ 3VA2710-7□□16-□□□□ 3VA2712-7□□16-□□□□ 3VA2716-7□□16-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-7□□26-□□□□ 3VA2710-7□□26-□□□□ 3VA2712-7□□26-□□□□ 3VA2716-7□□26-□□□□		1	1 unit	1CB
Versions								
ETUs 3-series – Communications interface and metering function not possible								
with ETU320 (LI)				A	B		✓	
with ETU350 (LSI)				A	C		✓	
with ETU360 (LSIG)				A	D		✓	
ETUs 6-series – Expandable with communications interface and metering function								
with ETU650 (LSI)				E			✓	
with ETU660 (LSIG)				F			✓	
Without communications interface, without metering function				A		None		
With communications interface, without metering function				B			✓	
With communications interface, with Basic metering function (voltage tap at bottom)				C			✓	
With communications interface, with Basic metering function (voltage tap at top)				D			✓	
With communications interface, with Advanced metering function (voltage tap at bottom)				E			✓	
With communications interface, with Advanced metering function (voltage tap at top)				F			✓	

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

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

	Note: Always with S24, RTC, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 55 \text{ kA at } 415 \text{ V},$ breaking capacity M	M	PU (UNIT, SET, M)	PS	PG
							Article No. www.siemens.com/ product?Article No.	Basic price per PU
Rear vertical connection								
	Neutral left	800 1000 1250 1600		3VA2780-1□□11-□□□□ 3VA2710-1□□11-□□□□ 3VA2712-1□□11-□□□□ 3VA2716-1□□11-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-1□□21-□□□□ 3VA2710-1□□21-□□□□ 3VA2712-1□□21-□□□□ 3VA2716-1□□21-□□□□		1	1 unit	1CB
Rear horizontal connection								
	Neutral left	800 1000 1250 1600		3VA2780-1□□12-□□□□ 3VA2710-1□□12-□□□□ 3VA2712-1□□12-□□□□ 3VA2716-1□□12-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-1□□22-□□□□ 3VA2710-1□□22-□□□□ 3VA2712-1□□22-□□□□ 3VA2716-1□□22-□□□□		1	1 unit	1CB
Front terminal for main circuit connection								
	Neutral left	800 1000 1250 1600		3VA2780-1□□13-□□□□ 3VA2710-1□□13-□□□□ 3VA2712-1□□13-□□□□ 3VA2716-1□□13-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-1□□23-□□□□ 3VA2710-1□□23-□□□□ 3VA2712-1□□23-□□□□ 3VA2716-1□□23-□□□□		1	1 unit	1CB
Front straight bus connectors extended								
	Neutral left	800 1000 1250 1600		3VA2780-1□□15-□□□□ 3VA2710-1□□15-□□□□ 3VA2712-1□□15-□□□□ 3VA2716-1□□15-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-1□□25-□□□□ 3VA2710-1□□25-□□□□ 3VA2712-1□□25-□□□□ 3VA2716-1□□25-□□□□		1	1 unit	1CB
Broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-1□□16-□□□□ 3VA2710-1□□16-□□□□ 3VA2712-1□□16-□□□□ 3VA2716-1□□16-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-1□□26-□□□□ 3VA2710-1□□26-□□□□ 3VA2712-1□□26-□□□□ 3VA2716-1□□26-□□□□		1	1 unit	1CB
Versions								
ETUs 3-series – Communications interface and metering function not possible								
with ETU320 (LI)				A	B		✓	
with ETU350 (LSI)				A	C		✓	
with ETU360 (LSIG)				A	D		✓	
ETUs 6-series – Expandable with communications interface and metering function								
with ETU650 (LSI)				E			✓	
with ETU660 (LSIG)				F			✓	
Without communications interface, without metering function				A		None		
With communications interface, without metering function				B			✓	
With communications interface, with Basic metering function (voltage tap at bottom)				C			✓	
With communications interface, with Basic metering function (voltage tap at top)				D			✓	
With communications interface, with Advanced metering function (voltage tap at bottom)				E			✓	
With communications interface, with Advanced metering function (voltage tap at top)				F			✓	

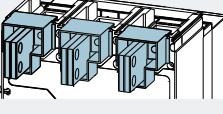
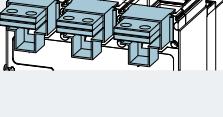
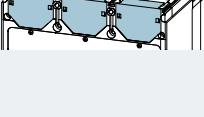
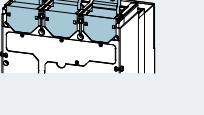
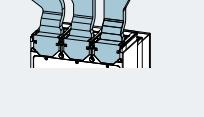
Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****4-pole, fixed-mounted versions with stored energy operating mechanism**

2

	Note: Always with S24, RTC, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n\ max}$	SD	$I_{cu} 85 \text{ kA at } 415 \text{ V},$ breaking capacity H	(H)	PU (UNIT, SET, M)	PS	PG
Rear vertical connection								
	Neutral left	800 1000 1250 1600		3VA2780-2□□11-□□□□ 3VA2710-2□□11-□□□□ 3VA2712-2□□11-□□□□ 3VA2716-2□□11-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-2□□21-□□□□ 3VA2710-2□□21-□□□□ 3VA2712-2□□21-□□□□ 3VA2716-2□□21-□□□□		1	1 unit	1CB
Rear horizontal connection								
	Neutral left	800 1000 1250 1600		3VA2780-2□□12-□□□□ 3VA2710-2□□12-□□□□ 3VA2712-2□□12-□□□□ 3VA2716-2□□12-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-2□□22-□□□□ 3VA2710-2□□22-□□□□ 3VA2712-2□□22-□□□□ 3VA2716-2□□22-□□□□		1	1 unit	1CB
Front terminal for main circuit connection								
	Neutral left	800 1000 1250 1600		3VA2780-2□□13-□□□□ 3VA2710-2□□13-□□□□ 3VA2712-2□□13-□□□□ 3VA2716-2□□13-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-2□□23-□□□□ 3VA2710-2□□23-□□□□ 3VA2712-2□□23-□□□□ 3VA2716-2□□23-□□□□		1	1 unit	1CB
Front straight bus connectors extended								
	Neutral left	800 1000 1250 1600		3VA2780-2□□15-□□□□ 3VA2710-2□□15-□□□□ 3VA2712-2□□15-□□□□ 3VA2716-2□□15-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-2□□25-□□□□ 3VA2710-2□□25-□□□□ 3VA2712-2□□25-□□□□ 3VA2716-2□□25-□□□□		1	1 unit	1CB
Broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-2□□16-□□□□ 3VA2710-2□□16-□□□□ 3VA2712-2□□16-□□□□ 3VA2716-2□□16-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-2□□26-□□□□ 3VA2710-2□□26-□□□□ 3VA2712-2□□26-□□□□ 3VA2716-2□□26-□□□□		1	1 unit	1CB
Versions								
ETUs 3-series – Communications interface and metering function not possible						Additional price		
with ETU320 (LI)						A	B	✓
with ETU350 (LSI)						A	C	✓
with ETU360 (LSIG)						A	D	✓
ETUs 6-series – Expandable with communications interface and metering function						E		✓
with ETU650 (LSI)						F		✓
with ETU660 (LSIG)								
Without communications interface, without metering function						A		None
With communications interface, without metering function						B		✓
With communications interface, with Basic metering function (voltage tap at bottom)						C		✓
With communications interface, with Basic metering function (voltage tap at top)						D		✓
With communications interface, with Advanced metering function (voltage tap at bottom)						E		✓
With communications interface, with Advanced metering function (voltage tap at top)						F		✓

Molded Case Circuit Breakers

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

	Note: Always with S24, RTC, AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 110 \text{ kA at } 415 \text{ V, breaking capacity C}$		PU (UNIT, SET, M)	PS	PG
				A	d			
Rear vertical connection								
	Neutral left	800		3VA2780-3□□11-□□□□		1	1 unit	1CB
		1000		3VA2710-3□□11-□□□□		1	1 unit	1CB
		1250		3VA2712-3□□11-□□□□		1	1 unit	1CB
		1600		3VA2716-3□□11-□□□□		1	1 unit	1CB
	Neutral right	800		3VA2780-3□□21-□□□□		1	1 unit	1CB
		1000		3VA2710-3□□21-□□□□		1	1 unit	1CB
		1250		3VA2712-3□□21-□□□□		1	1 unit	1CB
		1600		3VA2716-3□□21-□□□□		1	1 unit	1CB
Rear horizontal connection								
	Neutral left	800		3VA2780-3□□12-□□□□		1	1 unit	1CB
		1000		3VA2710-3□□12-□□□□		1	1 unit	1CB
		1250		3VA2712-3□□12-□□□□		1	1 unit	1CB
		1600		3VA2716-3□□12-□□□□		1	1 unit	1CB
	Neutral right	800		3VA2780-3□□22-□□□□		1	1 unit	1CB
		1000		3VA2710-3□□22-□□□□		1	1 unit	1CB
		1250		3VA2712-3□□22-□□□□		1	1 unit	1CB
		1600		3VA2716-3□□22-□□□□		1	1 unit	1CB
Front terminal for main circuit connection								
	Neutral left	800		3VA2780-3□□13-□□□□		1	1 unit	1CB
		1000		3VA2710-3□□13-□□□□		1	1 unit	1CB
		1250		3VA2712-3□□13-□□□□		1	1 unit	1CB
		1600		3VA2716-3□□13-□□□□		1	1 unit	1CB
	Neutral right	800		3VA2780-3□□23-□□□□		1	1 unit	1CB
		1000		3VA2710-3□□23-□□□□		1	1 unit	1CB
		1250		3VA2712-3□□23-□□□□		1	1 unit	1CB
		1600		3VA2716-3□□23-□□□□		1	1 unit	1CB
Front straight bus connectors extended								
	Neutral left	800		3VA2780-3□□15-□□□□		1	1 unit	1CB
		1000		3VA2710-3□□15-□□□□		1	1 unit	1CB
		1250		3VA2712-3□□15-□□□□		1	1 unit	1CB
		1600		3VA2716-3□□15-□□□□		1	1 unit	1CB
	Neutral right	800		3VA2780-3□□25-□□□□		1	1 unit	1CB
		1000		3VA2710-3□□25-□□□□		1	1 unit	1CB
		1250		3VA2712-3□□25-□□□□		1	1 unit	1CB
		1600		3VA2716-3□□25-□□□□		1	1 unit	1CB
Broadened bus connectors								
	Neutral left	800		3VA2780-3□□16-□□□□		1	1 unit	1CB
		1000		3VA2710-3□□16-□□□□		1	1 unit	1CB
		1250		3VA2712-3□□16-□□□□		1	1 unit	1CB
		1600		3VA2716-3□□16-□□□□		1	1 unit	1CB
	Neutral right	800		3VA2780-3□□26-□□□□		1	1 unit	1CB
		1000		3VA2710-3□□26-□□□□		1	1 unit	1CB
		1250		3VA2712-3□□26-□□□□		1	1 unit	1CB
		1600		3VA2716-3□□26-□□□□		1	1 unit	1CB
Versions								
ETUs 3-series – Communications interface and metering function not possible							Additional price	
with ETU320 (LI)						A B	✓	
with ETU350 (LSI)						A C	✓	
with ETU360 (LSIG)						A D	✓	
ETUs 6-series – Expandable with communications interface and metering function								
with ETU650 (LSI)						E	✓	
with ETU660 (LSIG)						F	✓	
Without communications interface, without metering function						A	None	
With communications interface, without metering function						B	✓	
With communications interface, with Basic metering function (voltage tap at bottom)						C	✓	
With communications interface, with Basic metering function (voltage tap at top)						D	✓	
With communications interface, with Advanced metering function (voltage tap at bottom)						E	✓	
With communications interface, with Advanced metering function (voltage tap at top)						F	✓	

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****4-pole, withdrawable versions with toggle**

2

	Note: Always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 55 \text{ kA at } 415 \text{ V},$ breaking capacity M	M	PU (UNIT, SET, M)	PS	PG
				A				
Withdrawable breaker version without guide frame								
	Neutral left	800 1000 1250 1600		3VA2780-5□□40-□□□□ 3VA2710-5□□40-□□□□ 3VA2712-5□□40-□□□□ 3VA2716-5□□40-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-5□□50-□□□□ 3VA2710-5□□50-□□□□ 3VA2712-5□□50-□□□□ 3VA2716-5□□50-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, rear vertical connection								
	Neutral left	800 1000 1250 1600		3VA2780-5□□41-□□□□ 3VA2710-5□□41-□□□□ 3VA2712-5□□41-□□□□ 3VA2716-5□□41-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-5□□51-□□□□ 3VA2710-5□□51-□□□□ 3VA2712-5□□51-□□□□ 3VA2716-5□□51-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, rear horizontal connection								
	Neutral left	800 1000 1250 1600		3VA2780-5□□42-□□□□ 3VA2710-5□□42-□□□□ 3VA2712-5□□42-□□□□ 3VA2716-5□□42-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-5□□52-□□□□ 3VA2710-5□□52-□□□□ 3VA2712-5□□52-□□□□ 3VA2716-5□□52-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, front straight bus connectors extended								
	Neutral left	800 1000 1250 1600		3VA2780-5□□45-□□□□ 3VA2710-5□□45-□□□□ 3VA2712-5□□45-□□□□ 3VA2716-5□□45-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-5□□55-□□□□ 3VA2710-5□□55-□□□□ 3VA2712-5□□55-□□□□ 3VA2716-5□□55-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-5□□46-□□□□ 3VA2710-5□□46-□□□□ 3VA2712-5□□46-□□□□ 3VA2716-5□□46-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-5□□56-□□□□ 3VA2710-5□□56-□□□□ 3VA2712-5□□56-□□□□ 3VA2716-5□□56-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, rear broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-5□□47-□□□□ 3VA2710-5□□47-□□□□ 3VA2712-5□□47-□□□□ 3VA2716-5□□47-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-5□□57-□□□□ 3VA2710-5□□57-□□□□ 3VA2712-5□□57-□□□□ 3VA2716-5□□57-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
Versions								
ETUs 3-series – Communications interface and metering function not possible								
with ETU320 (LI)				A	B			✓
with ETU350 (LSI)				A	C			✓
with ETU360 (LSIG)				A	D			✓
ETUs 6-series – Expandable with communications interface and metering function								
with ETU650 (LSI)				E				✓
with ETU660 (LSIG)				F				✓
Without communications interface, without metering function				A			None	
With communications interface, without metering function				B				✓
With communications interface, with Basic metering function (voltage tap at bottom)				C				✓
With communications interface, with Basic metering function (voltage tap at top)				D				✓
With communications interface, with Advanced metering function (voltage tap at bottom)				E				✓
With communications interface, with Advanced metering function (voltage tap at top)				F				✓

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

4-pole, withdrawable versions with toggle

2

	Note: Always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 85 \text{ kA at } 415 \text{ V},$ breaking capacity H	(H)	PU (UNIT, SET, M)	PS	PG
		A	d	Article No. www.siemens.com/ product?Article No.	Basic price per PU			
Withdrawable breaker version without guide frame								
	Neutral left	800 1000 1250 1600		3VA2780-6□□40-□□□□ 3VA2710-6□□40-□□□□ 3VA2712-6□□40-□□□□ 3VA2716-6□□40-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-6□□50-□□□□ 3VA2710-6□□50-□□□□ 3VA2712-6□□50-□□□□ 3VA2716-6□□50-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, rear vertical connection								
	Neutral left	800 1000 1250 1600		3VA2780-6□□41-□□□□ 3VA2710-6□□41-□□□□ 3VA2712-6□□41-□□□□ 3VA2716-6□□41-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-6□□51-□□□□ 3VA2710-6□□51-□□□□ 3VA2712-6□□51-□□□□ 3VA2716-6□□51-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, rear horizontal connection								
	Neutral left	800 1000 1250 1600		3VA2780-6□□42-□□□□ 3VA2710-6□□42-□□□□ 3VA2712-6□□42-□□□□ 3VA2716-6□□42-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-6□□52-□□□□ 3VA2710-6□□52-□□□□ 3VA2712-6□□52-□□□□ 3VA2716-6□□52-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, front straight bus connectors extended								
	Neutral left	800 1000 1250 1600		3VA2780-6□□45-□□□□ 3VA2710-6□□45-□□□□ 3VA2712-6□□45-□□□□ 3VA2716-6□□45-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-6□□55-□□□□ 3VA2710-6□□55-□□□□ 3VA2712-6□□55-□□□□ 3VA2716-6□□55-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-6□□46-□□□□ 3VA2710-6□□46-□□□□ 3VA2712-6□□46-□□□□ 3VA2716-6□□46-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-6□□56-□□□□ 3VA2710-6□□56-□□□□ 3VA2712-6□□56-□□□□ 3VA2716-6□□56-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, rear broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-6□□47-□□□□ 3VA2710-6□□47-□□□□ 3VA2712-6□□47-□□□□ 3VA2716-6□□47-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-6□□57-□□□□ 3VA2710-6□□57-□□□□ 3VA2712-6□□57-□□□□ 3VA2716-6□□57-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
Versions								
ETUs 3-series – Communications interface and metering function not possible								
with ETU320 (LI)				A	B		✓	
with ETU350 (LSI)				A	C		✓	
with ETU360 (LSIG)				A	D		✓	
ETUs 6-series – Expandable with communications interface and metering function								
with ETU650 (LSI)				E			✓	
with ETU660 (LSIG)				F			✓	
Without communications interface, without metering function				A		None		
With communications interface, without metering function				B			✓	
With communications interface, with Basic metering function (voltage tap at bottom)				C			✓	
With communications interface, with Basic metering function (voltage tap at top)				D			✓	
With communications interface, with Advanced metering function (voltage tap at bottom)				E			✓	
With communications interface, with Advanced metering function (voltage tap at top)				F			✓	

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

Siemens LV 10 · 04/2019

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****4-pole, withdrawable versions with toggle**

2

	Note: Always with S24, PSS (in frame), AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 110 \text{ kA at } 415 \text{ V,}$ breaking capacity C	C	PU (UNIT, SET, M)	PS	PG
Withdrawable breaker version without guide frame								
	Neutral left	800 1000 1250 1600		3VA2780-7□□40-□□□□ 3VA2710-7□□40-□□□□ 3VA2712-7□□40-□□□□ 3VA2716-7□□40-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-7□□50-□□□□ 3VA2710-7□□50-□□□□ 3VA2712-7□□50-□□□□ 3VA2716-7□□50-□□□□		1	1 unit	1CB
With guide frame, rear vertical connection								
	Neutral left	800 1000 1250 1600		3VA2780-7□□41-□□□□ 3VA2710-7□□41-□□□□ 3VA2712-7□□41-□□□□ 3VA2716-7□□41-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-7□□51-□□□□ 3VA2710-7□□51-□□□□ 3VA2712-7□□51-□□□□ 3VA2716-7□□51-□□□□		1	1 unit	1CB
With guide frame, rear horizontal connection								
	Neutral left	800 1000 1250 1600		3VA2780-7□□42-□□□□ 3VA2710-7□□42-□□□□ 3VA2712-7□□42-□□□□ 3VA2716-7□□42-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-7□□52-□□□□ 3VA2710-7□□52-□□□□ 3VA2712-7□□52-□□□□ 3VA2716-7□□52-□□□□		1	1 unit	1CB
With guide frame, front straight bus connectors extended								
	Neutral left	800 1000 1250 1600		3VA2780-7□□45-□□□□ 3VA2710-7□□45-□□□□ 3VA2712-7□□45-□□□□ 3VA2716-7□□45-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-7□□55-□□□□ 3VA2710-7□□55-□□□□ 3VA2712-7□□55-□□□□ 3VA2716-7□□55-□□□□		1	1 unit	1CB
With guide frame, broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-7□□46-□□□□ 3VA2710-7□□46-□□□□ 3VA2712-7□□46-□□□□ 3VA2716-7□□46-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-7□□56-□□□□ 3VA2710-7□□56-□□□□ 3VA2712-7□□56-□□□□ 3VA2716-7□□56-□□□□		1	1 unit	1CB
With guide frame, rear broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-7□□47-□□□□ 3VA2710-7□□47-□□□□ 3VA2712-7□□47-□□□□ 3VA2716-7□□47-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-7□□57-□□□□ 3VA2710-7□□57-□□□□ 3VA2712-7□□57-□□□□ 3VA2716-7□□57-□□□□		1	1 unit	1CB
Versions								
ETUs 3-series – Communications interface and metering function not possible								
with ETU320 (LI)								
with ETU350 (LSI)								
with ETU360 (LSIG)								
ETUs 6-series – Expandable with communications interface and metering function								
with ETU650 (LSI)								
with ETU660 (LSIG)								
Without communications interface, without metering function								
With communications interface, without metering function								
With communications interface, with Basic metering function (voltage tap at bottom)								
With communications interface, with Basic metering function (voltage tap at top)								
With communications interface, with Advanced metering function (voltage tap at bottom)								
With communications interface, with Advanced metering function (voltage tap at top)								

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

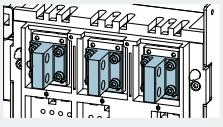
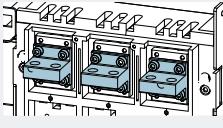
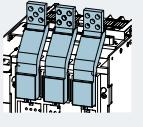
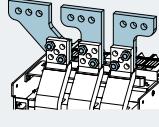
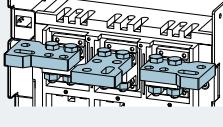
4-pole, withdrawable versions with stored energy operating mechanism

	Note: Always with S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 55 \text{ kA at } 415 \text{ V, breaking capacity M}$	(M)	PU (UNIT, SET, M)	PS	PG
			A	d				
Withdrawable breaker version without guide frame								
	Neutral left	800 1000 1250 1600		3VA2780-1□□40-□□□□ 3VA2710-1□□40-□□□□ 3VA2712-1□□40-□□□□ 3VA2716-1□□40-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-1□□50-□□□□ 3VA2710-1□□50-□□□□ 3VA2712-1□□50-□□□□ 3VA2716-1□□50-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, rear vertical connection								
	Neutral left	800 1000 1250 1600		3VA2780-1□□41-□□□□ 3VA2710-1□□41-□□□□ 3VA2712-1□□41-□□□□ 3VA2716-1□□41-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-1□□51-□□□□ 3VA2710-1□□51-□□□□ 3VA2712-1□□51-□□□□ 3VA2716-1□□51-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, rear horizontal connection								
	Neutral left	800 1000 1250 1600		3VA2780-1□□42-□□□□ 3VA2710-1□□42-□□□□ 3VA2712-1□□42-□□□□ 3VA2716-1□□42-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-1□□52-□□□□ 3VA2710-1□□52-□□□□ 3VA2712-1□□52-□□□□ 3VA2716-1□□52-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, front straight bus connectors extended								
	Neutral left	800 1000 1250 1600		3VA2780-1□□45-□□□□ 3VA2710-1□□45-□□□□ 3VA2712-1□□45-□□□□ 3VA2716-1□□45-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-1□□55-□□□□ 3VA2710-1□□55-□□□□ 3VA2712-1□□55-□□□□ 3VA2716-1□□55-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-1□□46-□□□□ 3VA2710-1□□46-□□□□ 3VA2712-1□□46-□□□□ 3VA2716-1□□46-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-1□□56-□□□□ 3VA2710-1□□56-□□□□ 3VA2712-1□□56-□□□□ 3VA2716-1□□56-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
With guide frame, rear broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-1□□47-□□□□ 3VA2710-1□□47-□□□□ 3VA2712-1□□47-□□□□ 3VA2716-1□□47-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
	Neutral right	800 1000 1250 1600		3VA2780-1□□57-□□□□ 3VA2710-1□□57-□□□□ 3VA2712-1□□57-□□□□ 3VA2716-1□□57-□□□□	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB	
Versions								
ETUs 3-series – Communications interface and metering function not possible							Additional price	
with ETU320 (LI)						A	✓	
with ETU350 (LSI)						A	✓	
with ETU360 (LSIG)						A	✓	
ETUs 6-series – Expandable with communications interface and metering function						E	✓	
with ETU650 (LSI)						F	✓	
with ETU660 (LSIG)						A	None	
Without communications interface, without metering function						B	✓	
With communications interface, without metering function						C	✓	
With communications interface, with Basic metering function (voltage tap at bottom)						D	✓	
With communications interface, with Basic metering function (voltage tap at top)						E	✓	
With communications interface, with Advanced metering function (voltage tap at bottom)						F	✓	
With communications interface, with Advanced metering function (voltage tap at top)						G	✓	

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

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Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****4-pole, withdrawable versions with stored energy operating mechanism**

	Note: Always with S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 85 \text{ kA at } 415 \text{ V, breaking capacity H}$	(H)	PU (UNIT, SET, M)	PS	PG
				Article No. www.siemens.com/ product?Article No.				
		A	d					
Withdrawable breaker version without guide frame								
	Neutral left	800 1000 1250 1600		3VA2780-2□□40-□□□□ 3VA2710-2□□40-□□□□ 3VA2712-2□□40-□□□□ 3VA2716-2□□40-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
	Neutral right	800 1000 1250 1600		3VA2780-2□□50-□□□□ 3VA2710-2□□50-□□□□ 3VA2712-2□□50-□□□□ 3VA2716-2□□50-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear vertical connection								
	Neutral left	800 1000 1250 1600		3VA2780-2□□41-□□□□ 3VA2710-2□□41-□□□□ 3VA2712-2□□41-□□□□ 3VA2716-2□□41-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
	Neutral right	800 1000 1250 1600		3VA2780-2□□51-□□□□ 3VA2710-2□□51-□□□□ 3VA2712-2□□51-□□□□ 3VA2716-2□□51-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear horizontal connection								
	Neutral left	800 1000 1250 1600		3VA2780-2□□42-□□□□ 3VA2710-2□□42-□□□□ 3VA2712-2□□42-□□□□ 3VA2716-2□□42-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
	Neutral right	800 1000 1250 1600		3VA2780-2□□52-□□□□ 3VA2710-2□□52-□□□□ 3VA2712-2□□52-□□□□ 3VA2716-2□□52-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, front straight bus connectors extended								
	Neutral left	800 1000 1250 1600		3VA2780-2□□45-□□□□ 3VA2710-2□□45-□□□□ 3VA2712-2□□45-□□□□ 3VA2716-2□□45-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
	Neutral right	800 1000 1250 1600		3VA2780-2□□55-□□□□ 3VA2710-2□□55-□□□□ 3VA2712-2□□55-□□□□ 3VA2716-2□□55-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-2□□46-□□□□ 3VA2710-2□□46-□□□□ 3VA2712-2□□46-□□□□ 3VA2716-2□□46-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
	Neutral right	800 1000 1250 1600		3VA2780-2□□56-□□□□ 3VA2710-2□□56-□□□□ 3VA2712-2□□56-□□□□ 3VA2716-2□□56-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-2□□47-□□□□ 3VA2710-2□□47-□□□□ 3VA2712-2□□47-□□□□ 3VA2716-2□□47-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
	Neutral right	800 1000 1250 1600		3VA2780-2□□57-□□□□ 3VA2710-2□□57-□□□□ 3VA2712-2□□57-□□□□ 3VA2716-2□□57-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Versions								
ETUs 3-series – Communications interface and metering function not possible							Additional price	
with ETU320 (LI)						A	B	✓
with ETU350 (LSI)						A	C	✓
with ETU360 (LSIG)						A	D	✓
ETUs 6-series – Expandable with communications interface and metering function								
with ETU650 (LSI)						E		✓
with ETU660 (LSIG)						F		✓
Without communications interface, without metering function						A		None
With communications interface, without metering function						B		✓
With communications interface, with Basic metering function (voltage tap at bottom)						C		✓
With communications interface, with Basic metering function (voltage tap at top)						D		✓
With communications interface, with Advanced metering function (voltage tap at bottom)						E		✓
With communications interface, with Advanced metering function (voltage tap at top)						F		✓

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

4-pole, withdrawable versions with stored energy operating mechanism

	Note: Always with S24, RTC, PSS (in frame), AUX 4 CO signaling and auxiliary switches	Max. rated circuit breaker current $I_{n \max}$	SD	$I_{cu} 110 \text{ kA at } 415 \text{ V, breaking capacity C}$	C	PU (UNIT, SET, M)	PS	PG
			A					
Withdrawable breaker version without guide frame								
	Neutral left	800 1000 1250 1600		3VA2780-3□□40-□□□□ 3VA2710-3□□40-□□□□ 3VA2712-3□□40-□□□□ 3VA2716-3□□40-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-3□□50-□□□□ 3VA2710-3□□50-□□□□ 3VA2712-3□□50-□□□□ 3VA2716-3□□50-□□□□		1	1 unit	1CB
With guide frame, rear vertical connection								
	Neutral left	800 1000 1250 1600		3VA2780-3□□41-□□□□ 3VA2710-3□□41-□□□□ 3VA2712-3□□41-□□□□ 3VA2716-3□□41-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-3□□51-□□□□ 3VA2710-3□□51-□□□□ 3VA2712-3□□51-□□□□ 3VA2716-3□□51-□□□□		1	1 unit	1CB
With guide frame, rear horizontal connection								
	Neutral left	800 1000 1250 1600		3VA2780-3□□42-□□□□ 3VA2710-3□□42-□□□□ 3VA2712-3□□42-□□□□ 3VA2716-3□□42-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-3□□52-□□□□ 3VA2710-3□□52-□□□□ 3VA2712-3□□52-□□□□ 3VA2716-3□□52-□□□□		1	1 unit	1CB
With guide frame, front straight bus connectors extended								
	Neutral left	800 1000 1250 1600		3VA2780-3□□45-□□□□ 3VA2710-3□□45-□□□□ 3VA2712-3□□45-□□□□ 3VA2716-3□□45-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-3□□55-□□□□ 3VA2710-3□□55-□□□□ 3VA2712-3□□55-□□□□ 3VA2716-3□□55-□□□□		1	1 unit	1CB
With guide frame, broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-3□□46-□□□□ 3VA2710-3□□46-□□□□ 3VA2712-3□□46-□□□□ 3VA2716-3□□46-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-3□□56-□□□□ 3VA2710-3□□56-□□□□ 3VA2712-3□□56-□□□□ 3VA2716-3□□56-□□□□		1	1 unit	1CB
With guide frame, rear broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-3□□47-□□□□ 3VA2710-3□□47-□□□□ 3VA2712-3□□47-□□□□ 3VA2716-3□□47-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-3□□57-□□□□ 3VA2710-3□□57-□□□□ 3VA2712-3□□57-□□□□ 3VA2716-3□□57-□□□□		1	1 unit	1CB
Versions								
ETUs 3-series – Communications interface and metering function not possible							Additional price	
with ETU320 (LI)						A	B	✓
with ETU350 (LSI)						A	C	✓
with ETU360 (LSIG)						A	D	✓
ETUs 6-series – Expandable with communications interface and metering function						E		✓
with ETU650 (LSI)						F		✓
with ETU660 (LSIG)						A	None	
Without communications interface, without metering function						B		✓
With communications interface, without metering function						C		✓
With communications interface, with Basic metering function (voltage tap at bottom)						D		✓
With communications interface, with Basic metering function (voltage tap at top)						E		✓
With communications interface, with Advanced metering function (voltage tap at bottom)						F		✓
With communications interface, with Advanced metering function (voltage tap at top)								✓

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

Siemens LV 10 · 04/2019

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****3-pole, fixed-mounted non-automatic air circuit breakers with toggle****Selection and ordering data**

2

	Note: Always with AUX 4 CO auxiliary contacts	Max. rated circuit breaker current $I_{n\ max}$	SD	$I_{cc} 20 \text{ kA at } 415 \text{ V,}$ breaking capacity M	M	PU	PS	PG
						(UNIT, SET, M)	Basic price per PU	
		A		d				
Rear vertical connection		800 1000 1250 1600		3VA2780-5AA01-□□□□ 3VA2710-5AA01-□□□□ 3VA2712-5AA01-□□□□ 3VA2716-5AA01-□□□□		1	1 unit	1CB
Rear horizontal connection		800 1000 1250 1600		3VA2780-5AA02-□□□□ 3VA2710-5AA02-□□□□ 3VA2712-5AA02-□□□□ 3VA2716-5AA02-□□□□		1	1 unit	1CB
Front terminal for main circuit connection		800 1000 1250 1600		3VA2780-5AA03-□□□□ 3VA2710-5AA03-□□□□ 3VA2712-5AA03-□□□□ 3VA2716-5AA03-□□□□		1	1 unit	1CB
Straight bus connectors extended		800 1000 1250 1600		3VA2780-5AA05-□□□□ 3VA2710-5AA05-□□□□ 3VA2712-5AA05-□□□□ 3VA2716-5AA05-□□□□		1	1 unit	1CB
Broadened bus connectors		800 1000 1250 1600		3VA2780-5AA06-□□□□ 3VA2710-5AA06-□□□□ 3VA2712-5AA06-□□□□ 3VA2716-5AA06-□□□□		1	1 unit	1CB

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

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

	Note: Always with AUX 4 CO auxiliary contacts	Max. rated circuit breaker current $I_{n\ max}$	SD	$I_{cc} 20 \text{ kA at } 415 \text{ V,}$ breaking capacity M		PU	PS	PG
						(UNIT, SET, M)	Basic price per PU	
		A	d					
Rear vertical connection								
		800 1000 1250 1600		3VA2780-1AA01-□□□□ 3VA2710-1AA01-□□□□ 3VA2712-1AA01-□□□□ 3VA2716-1AA01-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Rear horizontal connection								
		800 1000 1250 1600		3VA2780-1AA02-□□□□ 3VA2710-1AA02-□□□□ 3VA2712-1AA02-□□□□ 3VA2716-1AA02-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Front terminal for main circuit connection								
		800 1000 1250 1600		3VA2780-1AA03-□□□□ 3VA2710-1AA03-□□□□ 3VA2712-1AA03-□□□□ 3VA2716-1AA03-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Straight bus connectors extended								
		800 1000 1250 1600		3VA2780-1AA05-□□□□ 3VA2710-1AA05-□□□□ 3VA2712-1AA05-□□□□ 3VA2716-1AA05-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
Broadened bus connectors								
		800 1000 1250 1600		3VA2780-1AA06-□□□□ 3VA2710-1AA06-□□□□ 3VA2712-1AA06-□□□□ 3VA2716-1AA06-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****3-pole, fixed-mounted non-automatic air circuit breakers with toggle**

2

	Note: Always with AUX 4 CO auxiliary contacts and PSS signaling switches (in frame)	Max. rated circuit breaker current $I_{n\ max}$	SD	$I_{cc} 20 \text{ kA at } 415 \text{ V,}$ breaking capacity M		PU	PS	PG
						(UNIT, SET, M)	Basic price per PU	
		A	d					
Withdrawable breaker version without guide frame								
		800 1000 1250 1600		3VA2780-5AA30-□□□□ 3VA2710-5AA30-□□□□ 3VA2712-5AA30-□□□□ 3VA2716-5AA30-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear vertical connection								
		800 1000 1250 1600		3VA2780-5AA31-□□□□ 3VA2710-5AA31-□□□□ 3VA2712-5AA31-□□□□ 3VA2716-5AA31-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear horizontal connection								
		800 1000 1250 1600		3VA2780-5AA32-□□□□ 3VA2710-5AA32-□□□□ 3VA2712-5AA32-□□□□ 3VA2716-5AA32-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, front straight bus connectors extended								
		800 1000 1250 1600		3VA2780-5AA35-□□□□ 3VA2710-5AA35-□□□□ 3VA2712-5AA35-□□□□ 3VA2716-5AA35-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, broadened bus connectors								
		800 1000 1250 1600		3VA2780-5AA36-□□□□ 3VA2710-5AA36-□□□□ 3VA2712-5AA36-□□□□ 3VA2716-5AA36-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
With guide frame, rear broadened bus connectors								
		800 1000 1250 1600		3VA2780-5AA37-□□□□ 3VA2710-5AA37-□□□□ 3VA2712-5AA37-□□□□ 3VA2716-5AA37-□□□□		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

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

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

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****4-pole, fixed-mounted non-automatic air circuit breakers with toggle**

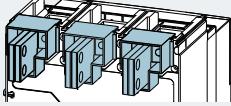
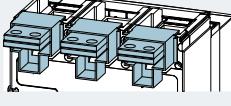
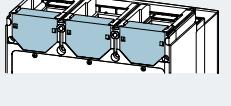
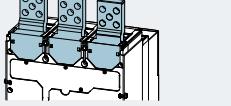
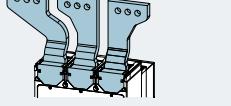
2

	Note: Always with AUX 4 CO auxiliary contacts	Max. rated circuit breaker current $I_{n\ max}$	SD	$I_{cc} 20 \text{ kA at } 415 \text{ V,}$ breaking capacity M		PU	PS	PG
						(UNIT, SET, M)	Basic price per PU	
Rear vertical connection								
	Neutral left	800 1000 1250 1600		3VA2780-5AA11-□□□□ 3VA2710-5AA11-□□□□ 3VA2712-5AA11-□□□□ 3VA2716-5AA11-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-5AA21-□□□□ 3VA2710-5AA21-□□□□ 3VA2712-5AA21-□□□□ 3VA2716-5AA21-□□□□		1	1 unit	1CB
Rear horizontal connection								
	Neutral left	800 1000 1250 1600		3VA2780-5AA12-□□□□ 3VA2710-5AA12-□□□□ 3VA2712-5AA12-□□□□ 3VA2716-5AA12-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-5AA22-□□□□ 3VA2710-5AA22-□□□□ 3VA2712-5AA22-□□□□ 3VA2716-5AA22-□□□□		1	1 unit	1CB
Front terminal for main circuit connection								
	Neutral left	800 1000 1250 1600		3VA2780-5AA13-□□□□ 3VA2710-5AA13-□□□□ 3VA2712-5AA13-□□□□ 3VA2716-5AA13-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-5AA23-□□□□ 3VA2710-5AA23-□□□□ 3VA2712-5AA23-□□□□ 3VA2716-5AA23-□□□□		1	1 unit	1CB
Straight bus connectors extended								
	Neutral left	800 1000 1250 1600		3VA2780-5AA15-□□□□ 3VA2710-5AA15-□□□□ 3VA2712-5AA15-□□□□ 3VA2716-5AA15-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-5AA25-□□□□ 3VA2710-5AA25-□□□□ 3VA2712-5AA25-□□□□ 3VA2716-5AA25-□□□□		1	1 unit	1CB
Broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-5AA16-□□□□ 3VA2710-5AA16-□□□□ 3VA2712-5AA16-□□□□ 3VA2716-5AA16-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-5AA26-□□□□ 3VA2710-5AA26-□□□□ 3VA2712-5AA26-□□□□ 3VA2716-5AA26-□□□□		1	1 unit	1CB

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

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

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

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****4-pole, withdrawable non-automatic air circuit breakers with toggle**

2



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

Max. rated circuit
breaker current
 $I_{n \max}$

A

SD

 **$I_{cc} 20 \text{ kA at } 415 \text{ V,}$
breaking capacity M****M**PU
(UNIT,
SET, M)

PG

Basic price
per PU

d

Withdrawable breaker version without guide frame

Neutral left

800

1000

1250

1600

3VA2780-5AA40-□□□□

1 1 unit 1CB

3VA2710-5AA40-□□□□

1 1 unit 1CB

3VA2712-5AA40-□□□□

1 1 unit 1CB

3VA2716-5AA40-□□□□

1 1 unit 1CB

Neutral right

800

1000

1250

1600

3VA2780-5AA50-□□□□

1 1 unit 1CB

3VA2710-5AA50-□□□□

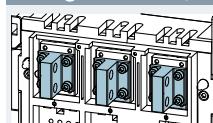
1 1 unit 1CB

3VA2712-5AA50-□□□□

1 1 unit 1CB

3VA2716-5AA50-□□□□

1 1 unit 1CB

With guide frame, rear vertical connection

Neutral left

800

1000

1250

1600

3VA2780-5AA41-□□□□

1 1 unit 1CB

3VA2710-5AA41-□□□□

1 1 unit 1CB

3VA2712-5AA41-□□□□

1 1 unit 1CB

3VA2716-5AA41-□□□□

1 1 unit 1CB

Neutral right

800

1000

1250

1600

3VA2780-5AA51-□□□□

1 1 unit 1CB

3VA2710-5AA51-□□□□

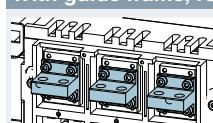
1 1 unit 1CB

3VA2712-5AA51-□□□□

1 1 unit 1CB

3VA2716-5AA51-□□□□

1 1 unit 1CB

With guide frame, rear horizontal connection

Neutral left

800

1000

1250

1600

3VA2780-5AA42-□□□□

1 1 unit 1CB

3VA2710-5AA42-□□□□

1 1 unit 1CB

3VA2712-5AA42-□□□□

1 1 unit 1CB

3VA2716-5AA42-□□□□

1 1 unit 1CB

Neutral right

800

1000

1250

1600

3VA2780-5AA52-□□□□

1 1 unit 1CB

3VA2710-5AA52-□□□□

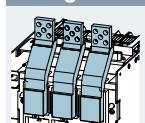
1 1 unit 1CB

3VA2712-5AA52-□□□□

1 1 unit 1CB

3VA2716-5AA52-□□□□

1 1 unit 1CB

With guide frame, front straight bus connectors extended

Neutral left

800

1000

1250

1600

3VA2780-5AA45-□□□□

1 1 unit 1CB

3VA2710-5AA45-□□□□

1 1 unit 1CB

3VA2712-5AA45-□□□□

1 1 unit 1CB

3VA2716-5AA45-□□□□

1 1 unit 1CB

Neutral right

800

1000

1250

1600

3VA2780-5AA55-□□□□

1 1 unit 1CB

3VA2710-5AA55-□□□□

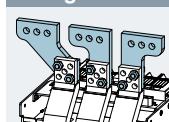
1 1 unit 1CB

3VA2712-5AA55-□□□□

1 1 unit 1CB

3VA2716-5AA55-□□□□

1 1 unit 1CB

With guide frame, broadened bus connectors

Neutral left

800

1000

1250

1600

3VA2780-5AA46-□□□□

1 1 unit 1CB

3VA2710-5AA46-□□□□

1 1 unit 1CB

3VA2712-5AA46-□□□□

1 1 unit 1CB

3VA2716-5AA46-□□□□

1 1 unit 1CB

Neutral right

800

1000

1250

1600

3VA2780-5AA56-□□□□

1 1 unit 1CB

3VA2710-5AA56-□□□□

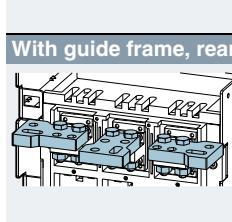
1 1 unit 1CB

3VA2712-5AA56-□□□□

1 1 unit 1CB

3VA2716-5AA56-□□□□

1 1 unit 1CB

With guide frame, rear broadened bus connectors

Neutral left

800

1000

1250

1600

3VA2780-5AA47-□□□□

1 1 unit 1CB

3VA2710-5AA47-□□□□

1 1 unit 1CB

3VA2712-5AA47-□□□□

1 1 unit 1CB

3VA2716-5AA47-□□□□

1 1 unit 1CB

Neutral right

800

1000

1250

1600

3VA2780-5AA57-□□□□

1 1 unit 1CB

3VA2710-5AA57-□□□□

1 1 unit 1CB

3VA2712-5AA57-□□□□

1 1 unit 1CB

3VA2716-5AA57-□□□□

1 1 unit 1CB

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

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

	Note: Always with AUX 4 CO auxiliary contacts and PSS signaling switches (in frame)	Max. rated circuit breaker current $I_{n\ max}$	SD	I_{cc} 20 kA at 415 V, breaking capacity M	M	PU (UNIT, SET, M)	PS	PG
A	d							
Withdrawable breaker version without guide frame								
	Neutral left	800 1000 1250 1600		3VA2780-1AA40-□□□□ 3VA2710-1AA40-□□□□ 3VA2712-1AA40-□□□□ 3VA2716-1AA40-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-1AA50-□□□□ 3VA2710-1AA50-□□□□ 3VA2712-1AA50-□□□□ 3VA2716-1AA50-□□□□		1	1 unit	1CB
With guide frame, rear vertical connection								
	Neutral left	800 1000 1250 1600		3VA2780-1AA41-□□□□ 3VA2710-1AA41-□□□□ 3VA2712-1AA41-□□□□ 3VA2716-1AA41-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-1AA51-□□□□ 3VA2710-1AA51-□□□□ 3VA2712-1AA51-□□□□ 3VA2716-1AA51-□□□□		1	1 unit	1CB
With guide frame, rear horizontal connection								
	Neutral left	800 1000 1250 1600		3VA2780-1AA42-□□□□ 3VA2710-1AA42-□□□□ 3VA2712-1AA42-□□□□ 3VA2716-1AA42-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-1AA52-□□□□ 3VA2710-1AA52-□□□□ 3VA2712-1AA52-□□□□ 3VA2716-1AA52-□□□□		1	1 unit	1CB
With guide frame, front straight bus connectors extended								
	Neutral left	800 1000 1250 1600		3VA2780-1AA45-□□□□ 3VA2710-1AA45-□□□□ 3VA2712-1AA45-□□□□ 3VA2716-1AA45-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-1AA55-□□□□ 3VA2710-1AA55-□□□□ 3VA2712-1AA55-□□□□ 3VA2716-1AA55-□□□□		1	1 unit	1CB
With guide frame, broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-1AA46-□□□□ 3VA2710-1AA46-□□□□ 3VA2712-1AA46-□□□□ 3VA2716-1AA46-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-1AA56-□□□□ 3VA2710-1AA56-□□□□ 3VA2712-1AA56-□□□□ 3VA2716-1AA56-□□□□		1	1 unit	1CB
With guide frame, rear broadened bus connectors								
	Neutral left	800 1000 1250 1600		3VA2780-1AA47-□□□□ 3VA2710-1AA47-□□□□ 3VA2712-1AA47-□□□□ 3VA2716-1AA47-□□□□		1	1 unit	1CB
	Neutral right	800 1000 1250 1600		3VA2780-1AA57-□□□□ 3VA2710-1AA57-□□□□ 3VA2712-1AA57-□□□□ 3VA2716-1AA57-□□□□		1	1 unit	1CB

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****Options****Overview**

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

Selection and ordering data

	SD	Article No. www.siemens.com/ product?Article No. d	Price per PU	PU (UNIT, SET, M)	PS	PG
Guide frames for ordering separately without circuit breakers¹⁾						
Description	Number of poles	Connection type				
Guide frames without breakers up to 1600 A	3-pole	Rear vertical	3VW8116-7AA01	1	1 unit	1CB
		Rear horizontal	3VW8116-7AB01	1	1 unit	1CB
		Front straight bus connectors extended	3VW8116-7AE01	1	1 unit	1CB
		Broadened bus connectors	3VW8116-7AF01	1	1 unit	1CB
		Rear broadened bus connectors	3VW8116-7AG01	1	1 unit	1CB
	4-pole	Rear vertical	3VW8116-7BA01	1	1 unit	1CB
		Rear horizontal	3VW8116-7BB01	1	1 unit	1CB
		Front straight bus connectors extended	3VW8116-7BE01	1	1 unit	1CB
		Broadened bus connectors	3VW8116-7BF01	1	1 unit	1CB
		Rear broadened bus connectors	3VW8116-7BG01	1	1 unit	1CB

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

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

Options

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

3VW8....-....-Z

 +...+...

Additional price

2

Locking devices (for guide frame)

Description	Variant	Version		
Locking device to prevent movement of the withdrawable circuit breaker	Cylinder lock	Ronis	R 7 8	✓
Safety lock for mounting on the circuit breaker	Padlock 8 mm	For no more than 3 locks	R 6 5	✓
Locking mechanisms to prevent movement of the withdrawable circuit breakers in disconnected position. Supplement to R78 and/or R65. Only possible when using R78 and/or R65.	Locking mechanism		R 7 9	✓

Auxiliary/signaling switches for 24 V DC digital signals for extremely low

Conditions	Type	Version		
Auxiliary and signaling switches for currents > 100 mA and up to 400 V AC are installed as standard.	Position signaling switch PSS 24 V digital	6 CO; 2x connected, 2x test and 2x disconnected	K 5 5	✓
For currents < 100 mA for PLC connections, these auxiliary and signaling switches can be modified.				
The auxiliary/signaling switches for 24 V DC digital signals are designed for a - smallest load above 1 mA @ 5 V DC and a - maximum breaking capacity of 100 mA @ 24 V DC.				

		Article No. supplement	Additional price
1st auxiliary release, shunt release (ST)		3VA27...-....- <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Type	U_s V AC/DC		
Without 1st auxiliary release	--	0	None
Shunt release (ST)			
24		1	✓
30		2	✓
48		3	✓
60		4	✓
110 ... 120		5	✓
120 ... 127		6	✓
220 ... 240		7	✓
240 ... 250		8	✓

2nd auxiliary release: undervoltage release or 2nd shunt release (UVR / ST2)

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

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****Options**

Add "-Z" to the complete Article No. and indicate the appropriate order code(s).			3VA27-.....-Z <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> +....+...	Additional price
Rating plugs				
Type/conditions	For ETU	Rated current I_n		
Only one module is possible per molded case circuit breaker.				
As standard, the Electronic Trip Units are equipped with a rating plug for setting the rated current I_{n_1} , which is equal to the maximum rated circuit breaker current ($I_{n_{max}}$). To downrate the circuit breaker, a rated current smaller than $I_{n_{max}}$ is selected for the rating plug by means of a Z option. Other functions can also be activated using rating plugs (L = OFF or Rc protection).				
Rating plugs for setting ($< I_{n_{max}}$) the rated current I_n	All	400 630 800 1000 1250	B 0 4 B 0 6 B 0 8 B 1 0 B 1 2	-- -- -- -- --
Rating plug with overload protection L = OFF and for setting ($< I_{n_{max}}$) of rated current I_n .	Only for ETUs of the 6-series	400 630 800 1000 1250 1600	L 0 4 L 0 6 L 0 8 L 1 0 L 1 2 L 1 6	-- -- -- -- -- --
Rc rating plug for ETU660, for enabling the residual current protection function and for setting ($< I_{n_{max}}$) of rated current I_n . The residual current function is only possible with the metering function MF Advanced.	For ETU660	400 630 800 1250	G 0 4 G 0 6 G 0 8 G 1 2	-- -- -- --
CB bus modules - communication modules				
Conditions	Communication module	Protocol		
Contain the respective communication module.	COM043 COM042	Modbus TCP Modbus RTU	F 1 1 F 1 2	✓ ✓
Up to 2 different communication modules can be used at the same time; when using a digital I/O module IOM040 (K56), only 1 communication module can be used.				
Can only be used with ETUs of the 6-series.				
CB bus modules - I/O modules internal				
Conditions	Type	Version		
I/O module for 24 V DC with 2 inputs and 2 outputs with a maximum switching current per contact of 2 A at 24 V DC.	Digital I/O module IOM040	2 inputs and 2 outputs	K 5 6	✓
When using a digital I/O module IOM040 (K56), only 1 communication module can be used.				
Can only be used with ETUs 6-series and communications interface selection.				
Breaker Connect module				
Conditions	Type	Version		
When a molded case circuit breaker with a communications interface is ordered, a Breaker Connect module for external 24 V DC power supply of the electronic components is also supplied ready installed.	Breaker Connect modules	110 - 240 V AC/DC	F 2 6	--
By means of this Z option, the Breaker Connect module for 24 V DC is replaced by a Breaker Connect module for 110-240 V AC/DC.				

Molded Case Circuit Breakers

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Options

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

3VA27-.....-Z

Additional price

**Auxiliary/signaling switches for 24 VDC digital signals
for extremely low currents**

Conditions	Type	Version	
Auxiliary and signaling switches for currents > 100 mA and up to 400 V AC are installed as standard.	Ready-to-close signaling	K 5 0	✓
For currents < 100 mA for PLC connections, these auxiliary and signaling switches can be replaced. The auxiliary/signaling switches for 24 V DC digital signals are designed for a	Auxiliary current switch ON / OFF AUX	K 5 1	✓
- smallest load above 1 mA at 5 V DC and a - maximum breaking capacity of 100 mA at 24 V DC.	Auxiliary current switch ON / OFF AUX	K 5 2	✓
	Tripped signaling switch S24	K 5 3	✓
	Spring charged signaling switch S21 Only in combination with a spring charging motor.	K 5 4	✓
	Position signaling switches PSS only with withdrawable versions ¹⁾	K 5 5	✓

Mechanical operating cycles counter

Conditions	Type	Version	
Mechanical operating cycles counter only possible in combination with a stored energy operating mechanism.	Mechanical operating cycles counter	C 0 1	✓

Door sealing frame IP30

Conditions	Type	Version	
For fixed-mounted and withdrawable versions. Can only be used up to IP3X degree of protection.	Door sealing frame	T 3 0	✓
For IP4X and higher, you must order the protective cover IP54 3VW9011-0AP03 or 3VW9011-0AP13.			

**Locking devices for breakers with stored energy operating mechanism
(for fixed-mounted and withdrawable versions)**

Conditions	Variant	Version	
Locking devices in OFF position to prevent unauthorized activation, in the operator panel (safe OFF), fulfills the conditions for a supply disconnecting (isolating) device acc. to EN 60204-1	Cylinder lock Ronis	S 0 8	✓
	Padlock 4 mm Plastic for no more than 3 locks	S 2 2	✓
	Padlock 7 mm Metal for no more than 1 lock	S 2 3	✓
	Padlock 8 mm Metal for no more than 2 locks	S 0 7	✓
Padlockable protective cover ON/OFF on the operator panel	Padlock 4 mm Plastic for no more than 3 locks	S 4 2	✓
	Padlock 7 mm Metal for no more than 1 lock	S 4 3	✓
	Padlock 8 mm Metal for no more than 2 locks	S 4 4	✓
Protective cover ON/OFF to protect against unintended actuation on the operator panel, cannot be locked.	Protective cover	S 4 1	✓

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

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****Options**

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

3VA27..-.....-Z
 +...+...

Additional price

Locking devices (for withdrawable version) ¹⁾

Conditions	Variant	Version		
Locking device to prevent movement of the withdrawable circuit breaker; safety lock for mounting on the circuit breaker	Cylinder lock Padlock 8 mm	Ronis For no more than 3 locks	R 7 8 R 6 5	✓ ✓
Locking mechanism to prevent movement of the withdrawable circuit breaker in disconnected position, supplement to R78 and/or R65. Only possible when using R78 and/or R65.	Locking mechanism		R 7 9	✓

Mounting options: Modification of the side wall of the fixed-mounted molded case circuit breaker for mechanical transmission of switch position ^{1) 2)}

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

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

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

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

Molded Case Circuit Breakers
NEW 3VA27 Molded Case Circuit Breakers

Options

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Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****Accessories and spare parts****Overview**

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

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

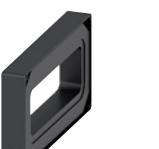
Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

Accessories and spare parts

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Selection and ordering data

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

Molded Case Circuit Breakers

3VA27 Molded Case Circuit Breakers **NEW**

Accessories and spare parts

	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	d					
Rating plugs						
 Only one module is possible per molded case circuit breaker.						
As standard, the Electronic Trip Units are equipped with a rating plug for setting the rated current I_n , which is equal to the maximum rated circuit breaker current ($< I_{n\ max}$). The rated current of the selected rating plug must be smaller than or equal to $I_{n\ max}$. To downrate the circuit breaker, a rated current smaller than $I_{n\ max}$ is selected for the rating plug by means of a Z option. Other functions can also be activated using rating plugs (L = OFF or Rc protection).						
Description	For ETU	Rated current I_n A				
Rating plugs for setting ($< I_{n\ max}$) the rated current I_n	All	400	3VV9011-0AA53	1	1 unit	1CB
		630	3VV9011-0AA55	1	1 unit	1CB
		800	3VV9011-0AA56	1	1 unit	1CB
		1000	3VV9011-0AA57	1	1 unit	1CB
		1250	3VV9011-0AA58	1	1 unit	1CB
		1600	3VV9011-0AA61	1	1 unit	1CB
Rating plug with overload protection L = OFF and for setting ($< I_{n\ max}$) the rated current I_n	Only for ETUs of the 6-series	400	3VV9011-0LF53	1	1 unit	1CB
		630	3VV9011-0LF55	1	1 unit	1CB
		800	3VV9011-0LF56	1	1 unit	1CB
		1000	3VV9011-0LF57	1	1 unit	1CB
		1250	3VV9011-0LF58	1	1 unit	1CB
		1600	3VV9011-0LF61	1	1 unit	1CB
Rc rating plug for ETU660, for enabling the residual current protection function and for setting ($< I_{n\ max}$) the rated current I_n . The residual current function is only possible with the MF Advanced metering function.	For ETU660 only	400	3VV9011-0RC53	1	1 unit	1CB
		630	3VV9011-0RC55	1	1 unit	1CB
		800	3VV9011-0RC56	1	1 unit	1CB
		1250	3VV9011-0RC58	1	1 unit	1CB
Remote reset magnets for tripped signaling						
 Description	Can be used for ETU	Version				
Remote reset magnet (RR) for resetting the molded case circuit breaker after tripping as a result of overcurrent conditions	All	24 V DC	3VV9011-0AK03	1	1 unit	1CB
	All	110 V AC/DC	3VV9011-0AK05	1	1 unit	1CB
	All	250 V AC/DC	3VV9011-0AK06	1	1 unit	1CB
Replacement battery for ETU						
 Description	Can be used for ETU					
Replacement battery for Electronic Trip Unit	All		3VV9011-0AT38	1	1 unit	1CB
CB bus modules - communication modules						
 Description	Communication module	Protocol				
These contain the communication module. Two different communication modules can be used at the same time; when using a digital I/O module IOM040 (K56), only one communication module can be used. Can only be used with ETUs of the 6-series and require a Breaker Connect module for connection to the circuit breaker. This can also be configured directly on the device by means of a Z option if the communications interface to the ETU 6-series is selected.	COM043	Modbus TCP	3VV9011-0AT16	1	1 unit	1CB
	COM042	Modbus RTU	3VV9011-0AT17	1	1 unit	1CB

Molded Case Circuit Breakers

NEW 3VA27 Molded Case Circuit Breakers

Accessories and spare parts

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

Molded Case Circuit Breakers3VA27 Molded Case Circuit Breakers **NEW****Accessories and spare parts**

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SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Auxiliary contact signals for communication					
	<p>Description</p> <p>Auxiliary contacts for signaling the readiness to close or position signaling switches of the withdrawable positions. Can only be used in combination with communication module. Can be combined with standard position signaling switches or ready-to-close signaling contacts.</p> <p>Note: Both signaling switches automatically included if the communications interface of the ETU 6-series is selected in the basic circuit breaker (COM PSS only with withdrawable versions).</p>	<p>Type</p> <p>Ready-to-close signaling COM RTC</p> <p>Position signaling switch for withdrawable breaker COM PSS only</p>	<p>Version</p> <p>For communications interface</p> <p>For communications interface</p>	3VW9011-0AT11	1 1 unit 1CB
				3VW9011-0AT12	1 1 unit 1CB
Test devices and Breaker Data Adapters					
	<p>Description</p> <p>Test device TD310 for the trip test via ETU and tripping solenoid including release. The ETU and the tripping solenoids are activated by means of a battery built into the test device. On activation in the ETU 6-series, the parameters can be configured on the display. Can be used for all ETUs 3-series and 6-series.</p>	<p>Version</p> <p>TD310</p>		3VW9011-0AT32	1 1 unit 1CB
				3VW9011-0AT34	1 1 unit 1CB
				3VW9011-0AT33	1 1 unit 1CB
Auxiliary supply connectors in push-in version					
	<p>Description</p> <p>10 auxiliary supply connectors in push-in version for upgrading fixed-mounted breakers and guide frames</p> <p>The device is always equipped at the factory with the exact number of auxiliary supply connectors required.</p>	<p>Version</p> <p>Push-in</p>		3VW9011-0AB11	1 10 units 1CB

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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
Auxiliary / signaling switches for toggle operating mechanism						
	Description	Type	Version			
Auxiliary and signaling switches are each offered in two versions: a) Standard version for currents > 100 mA and up to 400/250 V AC, - smallest load above 100 mA at 24 V DC and a - maximum breaking capacity of 5 A at 250 V AC. b) Digital version for currents < 100 mA for PLC connections, - smallest load above 1 mA at 5 V DC and a - maximum breaking capacity of 100 mA at 24 V DC. For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed-mounted breakers a 3VW9011-0BB5x side wall modification.	Tripped signaling switch TAS signals the trip position irrespective of the tripping reason	1 CO standard	3VW9727-0AB11	1	1 unit	1CB
		1 CO digital	3VW9727-0AB13	1	1 unit	1CB
	Tripped signaling switch via auxiliary release S25 signals tripping operations via auxiliary releases (UVR, ST) in UVR/ST2 pocket	1 CO standard	3VW9727-0AB41	1	1 unit	1CB
		1 CO digital	3VW9727-0AB43	1	1 unit	1CB
	Leading changeover switch S26	1 NO standard, 250 V AC 2 units	3VW9727-0AA21	1	1 unit	1CB
Fixation for external auxiliary switches AUX 15 CO						
	Description	Version				
Fixation for external auxiliary switches ON/OFF AUX 15 CO. External auxiliary switches ON/OFF AUX 15 CO are to be ordered separately.	Fixed-mounted breakers, rear wall or floor fixation (as a basis for this, the Z option S56 (3VW9011-0BB52) or S57 (3VW9011-0BB53) must additionally be used)	For guide frame	3VW9011-0AG15	1	1 unit	1CB
			3VW9011-0AG17	1	1 unit	1CB
Spring charging motors MO						
	Description	Version				
Spring charging motor for automatic charging of the stored energy operating mechanism	24 ... 30 V AC/DC	3VW9011-0AF01	1	1 unit	1CB	
	48 ... 60 V AC/DC	3VW9011-0AF02	1	1 unit	1CB	
	100 ... 130 V AC/DC	3VW9011-0AF03	1	1 unit	1CB	
	220 ... 250 V AC/DC	3VW9011-0AF04	1	1 unit	1CB	

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		SD d	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Manual operators for circuit breakers with toggle operating mechanism							
	Front mounted rotary operator incl. door sealing frame	Description	Version				
		Standard	Gray	3VW9727-0EK11	1	1 unit	1CB
		EMERGENCY-OFF	Yellow-red	3VW9727-0EK15	1	1 unit	1CB
Door mounted rotary operators							
	Door mounted rotary operators	Standard	Gray	3VW9727-0FK21	1	1 unit	1CB
		EMERGENCY-OFF	Yellow-red	3VW9727-0FK25	1	1 unit	1CB
		Basic without handle		3VW9727-0GK00	1	1 unit	1CB
		Shaft stub		8UD1900-3WD00	1	1 unit	1CB
	Handle	Gray		8UD1861-0AB11	1	1 unit	1CB
		Yellow-red		8UD1861-0AB15	1	1 unit	1CB
	Locking devices	Locking devices in OFF position for Ronis • To prevent unauthorized activation in the case of molded case circuit breakers with rotary operator		3VW9727-0VL10	1	1 unit	1CB
Locking devices for circuit breakers with toggle operating mechanism without rotary operators							
	Locking devices for padlocks	Locking devices in OFF position for padlocks • To prevent unauthorized activation in the operator panel • Without rotary operator		3VW9727-0LB10	1	1 unit	1CB
	Locking devices for Ronis	Locking devices in OFF position for Ronis • To prevent unauthorized activation in the operator panel • Without rotary operator		3VW9727-0LF10	1	1 unit	1CB

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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
Closing coil / shunt release CC / ST						
	Description	Version				
	Closing coil / shunt release (CC / ST)	24 V AC/DC	3VW9011-0AD01	1	1 unit	1CB
		30 V AC/DC	3VW9011-0AD02	1	1 unit	1CB
		48 V AC/DC	3VW9011-0AD03	1	1 unit	1CB
		60 V AC/DC	3VW9011-0AD04	1	1 unit	1CB
		110 ... 120 V AC/DC	3VW9011-0AD05	1	1 unit	1CB
		120 ... 127 V AC/DC	3VW9011-0AD06	1	1 unit	1CB
		220 ... 240 V AC/DC	3VW9011-0AD07	1	1 unit	1CB
		240 ... 250 V AC/DC	3VW9011-0AD08	1	1 unit	1CB
		380 ... 400 V AC	3VW9011-0AD17	1	1 unit	1CB
		415 ... 440 V AC	3VW9011-0AD18	1	1 unit	1CB
Function test unit TD320 for closing coil / shunt release						
	Description	Version				
	The TD320 test unit allows the operational availability and functions of the closing coils and shunt releases with a rated operational voltage between 24 V and 250 V (AC and DC) to be tested. The operational availability test is performed cyclically at intervals of 30 seconds. The unit has optical indicators for displaying the operating states.	For all closing coils / shunt releases	3VW9011-0AT31	1	1 unit	1CB
Undervoltage releases UVR						
	Description	Version				
	Undervoltage release UVR	24 V AC/DC	3VW9011-0AE01	1	1 unit	1CB
		30 V AC/DC	3VW9011-0AE02	1	1 unit	1CB
		48 V AC/DC	3VW9011-0AE03	1	1 unit	1CB
		60 V AC/DC	3VW9011-0AE04	1	1 unit	1CB
		110 ... 120 V AC/DC	3VW9011-0AE05	1	1 unit	1CB
		120 ... 127 V AC/DC	3VW9011-0AE06	1	1 unit	1CB
		220 ... 240 V AC/DC	3VW9011-0AE07	1	1 unit	1CB
		240 ... 250 V AC/DC	3VW9011-0AE08	1	1 unit	1CB
		380 ... 400 V AC	3VW9011-0AE17	1	1 unit	1CB
		415 ... 440 V AC	3VW9011-0AE18	1	1 unit	1CB
External time-delay device for undervoltage release						
	Description	Version				
	External time-delay device for undervoltage release UVR with adjustable delay time from 0.5 to 3 s.	24 ... 30 V AC/DC	3VW9011-0AE10	1	1 unit	1CB
	Suitable for mounting onto DIN rail.	48 V AC/DC	3VW9011-0AE11	1	1 unit	1CB
		60 V AC/DC	3VW9011-0AE15	1	1 unit	1CB
		110 ... 127 V AC/DC	3VW9011-0AE12	1	1 unit	1CB
		220 ... 250 V AC/DC	3VW9011-0AE13	1	1 unit	1CB

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d					
Mechanical operating cycles counter					
	Description Mechanical operating cycles counter only possible in combination with a stored energy operating mechanism.	Type Mechanical operating cycles counter	Version 5 digits	3VW9011-0AH07	1 1 unit 1CB
Door sealing frame IP30					
	Description For fixed-mounted and withdrawable breakers. Can only be used up to IP3x degree of protection. For IP4x and higher, you must order the protective cover IP54 3VW9011-0AP03 or 3VW9011-0AP13. Replacement part for Z option T30.	Type <ul style="list-style-type: none"> For fixed-mounted breakers For withdrawable breakers For 3VA27 with stored energy operating mechanism For withdrawable breakers For 3VA27 with toggle operating mechanism 	Version IP3x	3VW9011-0AP01 3VW9011-0AP02 3VW9011-0AP04	1 1 unit 1CB 1 1 unit 1CB 1 1 unit 1CB
Top: For fixed-mounted breakers, bottom: For withdrawable breakers					
Protective cover IP54					
	Description Protective cover / hood IP54 lockable for fixed-mounted breakers and withdrawable breakers, for implementing degrees of protection IP4X and IP54 when installing in switchboard door. Cannot be combined with IP30 door sealing frame	Type <ul style="list-style-type: none"> Lock with unique key Lock with standard key 	Version IP54	3VW9011-0AP03 3VW9011-0AP13	1 1 unit 1CB 1 1 unit 1CB
Support for floor fixation and modification of the side wall of the fixed-mounted breaker					
	Description Mounting support standard (circuit breaker feet) for fixing the molded case circuit breaker on the floor.	Type For fixed-mounted breakers only	Version Floor fixation	3VW9011-0BB51	1 1 unit 1CB
	Description Mounting support extended (circuit breaker feet); kit including mechanical transmission of switch position on circuit breaker side wall. ¹⁾ (= option S56)	Type For fixed-mounted breakers only	Version Floor fixation	3VW9011-0BB52	1 1 unit 1CB
	Description Side wall extension kit; modification for mechanical transmission of switch position on circuit breaker side wall. ¹⁾ (= option S57)	Type For fixed-mounted breakers only	Version Rear fixation on mounting plate	3VW9011-0BB53	1 1 unit 1CB

¹⁾ Required for:

- Fixation of external auxiliary switch AUX 15 CO (3VW9011-0AG15)
- Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10)
- Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16)
- Mechanical interlocking to 3WL/3VA (for 3VW9011-0BB21)

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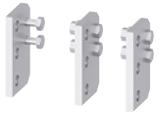
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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
Locking devices for stored energy operating mechanism (for fixed-mounted and withdrawable versions)						
	Description	Type	Version			
	Locking device in OFF position to prevent unauthorized activation in the operator panel (safe OFF).	Cylinder lock (replacement for S08)	Ronis	3VW9011-0BA33	1	1 unit 1CB
	The disconnector unit fulfills the conditions for a supply disconnecting (isolating) device acc. to EN 60204-1.	Padlock 4 mm (replacement for S22)	Plastic for no more than 3 locks	3VW9011-0BA41	1	1 unit 1CB
		Padlock 7 mm (replacement for S23)	Metal for no more than 1 lock	3VW9011-0BA42	1	1 unit 1CB
		Padlock 8 mm (replacement for S07)	Metal for no more than 2 locks	3VW9011-0BA44	1	1 unit 1CB
	Padlockable protective cover ON/OFF on the operator panel	Padlock 4 mm (replacement for S42)	Plastic for no more than 3 locks	3VW9011-0BA22	1	1 unit 1CB
		Padlock 7 mm (replacement for S43)	Metal for no more than 1 lock	3VW9011-0BA23	1	1 unit 1CB
		Padlock 8 mm (replacement for S44)	Metal for no more than 2 locks	3VW9011-0BA24	1	1 unit 1CB
	Protective cover ON/OFF to protect against unintentional actuation on the operator panel.	Protective cover (replacement for S41)		3VW9011-0BA21	1	1 unit 1CB
	Not lockable.					
Locking devices for toggle operating mechanism and stored energy operating mechanism (for withdrawable version)¹⁾						
	Description	Type	Version			
	Locking device to prevent movement of the withdrawable circuit breaker.	Cylinder lock (replacement for R78)	Ronis	3VW9011-0BA80	1	1 unit 1CB
	Safety lock for mounting on the circuit breaker.	Padlock 8 mm (replacement for R65)	For no more than 3 locks	3VW9011-0BA87	1	1 unit 1CB
	Locking mechanism to prevent movement of the withdrawable circuit breaker in disconnected position.	Locking mechanism (replacement for R79)		3VW9011-0BA84	1	1 unit 1CB
	Supplement to R78 (3VW9011-0BA80) and/or R65 (3VW9011-0BA84). Only possible when using R78 (3VW9011-0BA80) and/or R65 (3VW9011-0BA84).					
Locking mechanism to prevent opening of the control cabinet door in ON position						
	Description	Type	Version			
	Locking mechanism to prevent opening of the control cabinet door in ON position.	Fixed-mounted in side wall / or floor fixation ¹⁾	Direct fixed interlocking	3VW9011-0BB10	1	1 unit 1CB
		Withdrawable	Direct fixed interlocking	3VW9011-0BB14	1	1 unit 1CB
	It additionally prevents the molded case circuit breaker from being closed when the control cabinet door is open.	Fixed-mounted in side wall / or floor fixation ¹⁾	Interlocking with Bowden cable	3VW9011-0BB16	1	1 unit 1CB
		Withdrawable	Interlocking with Bowden cable	3VW9011-0BB18	1	1 unit 1CB
Mechanical interlocking with Bowden cable						
	Description	Version	Number of poles / quantity			
	Mechanical interlocking to 3WL / 3VA (interlocking module with Bowden cable 2 m)	Fixed-mounted ¹⁾	Rear panel or floor fixation	3VW9011-0BB21	1	1 unit 1CB
		Withdrawable	Fixation on guide frame	3VW9011-0BB22	1	1 unit 1CB

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

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		SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d							
Terminals for main circuit connection¹⁾ (to be ordered separately for top and bottom)							
	Description	Version	Number of poles / quantity				
	Front connection methods, fixed-mounted breakers Set of front terminals for main circuit connection	Fixed-mounted	3-pole / 3 units 4-pole / 4 units	3VW9011-0AL01 3VW9011-0AL02	1 1	1 unit 1 unit	1CB 1CB
	Front-accessible, extended connection methods Set of extended front terminals for main circuit connection for mounting on front terminals for main circuit connection (fixed-mounted) ²⁾	Fixed-mounted	3-pole / 3 units 4-pole / 4 units	3VW9011-0AL77 3VW9011-0AL78	1 1	1 unit 1 unit	1CB 1CB
	Set of front-accessible terminals for mounting on flange of guide frame (withdrawable)	Withdrawable	3-pole / 3 units 4-pole / 4 units	3VW9011-0AN01 3VW9011-0AN02	1 1	1 unit 1 unit	1CB 1CB
	Rear connection methods Set of rear terminals for main circuit connection ⁴⁾ ; rotatable for horizontal / vertical connection	Fixed-mounted Withdrawable	3-pole / 3 units 4-pole / 4 units 3-pole / 3 units 4-pole / 4 units	3VW9011-0AL32 3VW9011-0AL33 3VW9011-0AN32 3VW9011-0AN33	1 1 1 1	1 unit 1 unit 1 unit 1 unit	1CB 1CB 1CB 1CB
	Connection methods for Cu / Al cable connection Set of circular conductor terminals 4 x 240 mm ² for front cable connection (fixed breakers); ⁵⁾ mounting on front terminals for main circuit connection	Fixed-mounted	3-pole / 3 units 4-pole / 4 units	3VW9011-0AL71 3VW9011-0AL72	1 1	1 unit 1 unit	1CB 1CB
	Set of circular conductor terminals 4 x 240 mm ² for cable lugs, rear cable connection (withdrawable breakers) ⁵⁾ (Mounting on rear vertical terminals for main circuit connection 3VW9011-0AN32/33)	Withdrawable	3-pole / 3 units 4-pole / 4 units	3VW9011-0AN71 3VW9011-0AN72	1 1	1 unit 1 unit	1CB 1CB
	Front-accessible broadened connection methods Set of front broadened terminals for main circuit connection (fixed-mounted) ³⁾ for mounting directly on front terminals for main circuit connection	Fixed-mounted, top Fixed-mounted, bottom Fixed-mounted	3-pole / 3 units 3-pole / 3 units 4-pole / 4 units	3VW9011-0AL73 3VW9011-0AL75 3VW9011-0AL74	1 1 1	1 unit 1 unit 1 unit	1CB 1CB 1CB
	Set of front-accessible broadened terminals for main circuit connection (withdrawable) Mounting on front-accessible terminals for main circuit connection (3VW9011-0AN01/02)	Withdrawable	3-pole / 3 units 4-pole / 4 units	3VW9011-0AN73 3VW9011-0AN74	1 1	1 unit 1 unit	1CB 1CB
	Rear broadened connection methods, for withdrawable breakers Mounting on rear horizontal terminals for main circuit connection	Withdrawable	3-pole / 3 units 4-pole / 4 units	3VW9011-0AN75 3VW9011-0AN76	1 1	1 unit 1 unit	1CB 1CB

¹⁾ Acc. to IEC 60947-2 for 3WL10 up to 1250 A, for 3VA27 up to 1600 A (depending on application conditions)²⁾ Including: Insulation plate and standard phase barriers (H = 100 mm) (3VW9723-0WA00 / 3VW9723-0WA10)³⁾ Including: Insulation plate and extended phase barriers (H = 200 mm) (3VW9723-0WA01 / 3VW9723-0WA11)⁴⁾ Including: Standard terminal cover for fixed-mounted breakers (3VW9723-0WD30 / 3VW9723-0WD40)⁵⁾ Including: Insulation plate and high, extended terminal cover (3VW9723-0WF30 / 3VW9723-0WF40)

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	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
d						
Terminal covers for fixed-mounted breakers¹⁾						
	Description	Version	Number of poles / quantity			
	Finger-proof terminal cover for front terminals for main circuit connection for fixed-mounted breakers	For fixed-mounted version, standard	3-pole / 2 units 4-pole / 2 units	3VW9723-0WD30 3VW9724-0WD40	1 1	1 unit 1CB
		For fixed-mounted version, extended	3-pole / 2 units 4-pole / 2 units	3VW9723-0WF30 3VW9724-0WF40	1 1	1 unit 1CB
Phase barriers for fixed-mounted breakers¹⁾						
	Description	Version	Number of poles / quantity			
	Set of phase barriers for fixed-mounted molded case circuit breakers	H = 100 mm H = 200 mm	3-pole / 4 units 3-pole / 4 units	3VW9723-0WA00 3VW9723-0WA01	1 1	1 unit 1CB
	For operating voltages > 440 V AC the use of phase barriers is mandatory; up to 440 V AC their use is optional.	H = 100 mm H = 200 mm	4-pole / 6 units 4-pole / 6 units	3VW9724-0WA10 3VW9724-0WA11	1 1	1 unit 1CB

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