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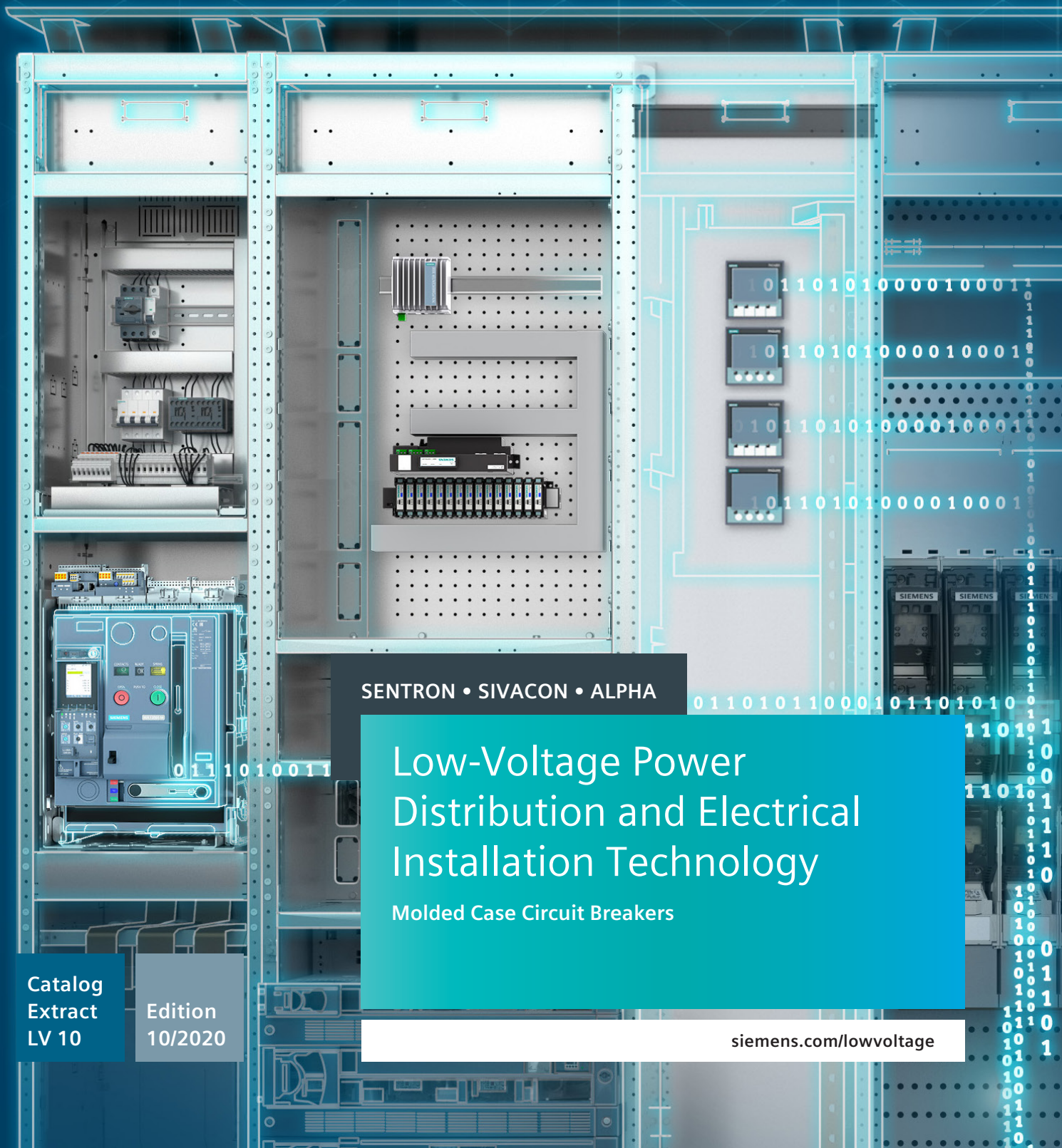

SENTRON • SIVACON • ALPHA

Low-Voltage Power Distribution and Electrical Installation Technology

Molded Case Circuit Breakers

Catalog Extract LV 10

Edition 10/2020

siemens.com/lowvoltage

Making sure power makes its way

Consistent, safe and intelligent low-voltage power distribution and electrical installation technology

Whether industries, infrastructures or buildings: Each environment depends on a reliable power supply.

Which is why products and systems featuring maximum safety and optimum efficiency are in demand. This comprehensive portfolio for low-voltage power distribution and electrical installation technology covers every requirement – from the switchboard to the socket outlet.

We are there when you need us

Your personal contact can be found at
www.siemens.com/lowvoltage/contact

Catalog LV 10 · 10/2020

You will find the latest edition and all future editions in the Siemens Industry Online Support at
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Refer to the Industry Mall for current prices
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The products and systems listed in this catalog are developed and manufactured using a certified quality management system in accordance with DIN EN ISO 9001:2008.

Technical data
The technical specifications are for general information purposes only. Always heed the operating instructions and notices on individual products during assembly, operation and maintenance.

All illustrations are not binding.

Low-Voltage Power Distribution and Electrical Installation Technology

One system. For all applications.

Requirements for cost- and energy-efficient operation of electrical power distribution are on the increase. Whether in industrial plants, in infrastructure or in buildings: As a modular, highly adaptable system, the 3VA series of molded case circuit breakers ensures fully reliable protection of personnel and plant, and supports every process phase – from planning to operation of electrical power distribution.

Comprehensively certified. Deployable worldwide.

3VA molded case circuit breakers are available in various ranges with IEC approval; other ranges are available that comply with standard IEC 60947 and standard UL 489. The system is therefore ideally suited for mechanical engineering companies and switchgear manufacturers. The full range of functionalities of molded case circuit breakers can be used for plant and equipment operating in Europe and North America, with absolute standards compliance assured.

Molded Case Circuit Breakers

A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about molded case circuit breakers, please visit our website
www.siemens.com/3VA

Contact persons in your region

We are there when you need us

You can find your local contacts at
www.siemens.com/lowvoltage/contact

Your product in detail

The Siemens Industry Online Support portal provides comprehensive information
www.siemens.com/lowvoltage/product-support

- Technical basic information – 3VA molded case circuit breakers (109766672)

The relevant tender specifications can be found at
www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Our video range

Siemens YouTube channel

- 3VA molded case circuit breakers (general)
  bit.ly/2xNxlFA

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Molded case circuit breakers sie.ag/2mmLcAk

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.
www.siemens.com/product?Article No.

Configurators

Exactly the right circuit breaker for your application

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your 3VA molded case circuit breaker at
www.siemens.com/lowvoltage/3va-configurator
www.siemens.com/lowvoltage/3va27-configurator

For your configured 3VA molded case circuit breaker, you can additionally find

- 3D views
- CAD data
- Unit wiring diagrams
- Dimension drawings

… can be found in our online services

Commissioning + operation

Configuration software

SENTRON powerconfig

The combined commissioning and service tool for communication-capable measuring devices and circuit breakers from the SENTRON portfolio.
www.siemens.com/powerconfig

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Your product in detail

The Siemens Industry Online Support portal provides detailed technical information
www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at
www.siemens.com/lowvoltage/cax

Training and tutorials

Our training courses can be found at
www.siemens.com/sitrain-lowvoltage

- Protection systems in low-voltage power distribution (WT-LVAPS)
- 3VA molded case circuit breaker (WT-LVA3VA)
- Communication with SENTRON components (LV-COM)
- Project planning and selection of SENTRON circuit breakers (LV-CBPROJ)

Manuals

Manuals are available for downloading in Siemens Industry Online Support at
www.siemens.com/lowvoltage/manuals

- Configuration manual – 3VA selectivity (109743975)
- Communication manual – 3VA molded case circuit breakers with IEC and UL certification (98746267)
- Equipment manual – 3VA molded case circuit breakers with IEC certificate (90318775)
- Equipment manual – 3VA27 molded case circuit breakers & 3WL10 air circuit breakers (109753821)
- Communication manual – 3WL10 air circuit breakers & 3VA27 molded case circuit breakers (109760220)

The fast track to the experts

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

Assistance with technical queries is provided at
www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services.
You can find your local contacts at
www.siemens.com/lowvoltage/contact

You can find further information on services at
www.siemens.com/service-catalog

Technical overview – Molded case circuit breakers

The fast way to get you to our online services

This page provides you with comprehensive information and links on molded case circuit breakers

www.siemens.com/lowvoltage/product-support (109767421)

Molded case circuit breakers for all applications

3VA10 ... 3VA15 molded case circuit breakers

Setting standards for standard applications

The 3VA1 molded case circuit breaker is ideally suited for your standard applications in infrastructure and industrial facilities. It is equipped with a thermal-magnetic trip unit, and offers reliable protection for plants and generators.

With its compact dimensions and depth of just 70 mm, the 3VA1 molded case circuit breaker can even fit into locations where space is limited. Thanks to its cover size of 45 mm, it is also ideally suited for use in distribution boards up to 250 A.

Special features

- Compact design
- AC/DC applications
- No derating up to +50 °C
- Optimized for distribution boards (45 mm cover size)
- Universal platform of accessories
- 1, 2, 3 or 4-pole versions

3VA20 ... 3VA26 molded case circuit breakers

The power to deliver in demanding applications

If you are looking for a solution that lets you handle your most technically demanding projects in industrial and infrastructure applications with ease, the 3VA2 molded case circuit breaker has the special capabilities you need. It combines high breaking capacity, a range of electronic trip units (ETUs), very good selectivity properties, and various additional functionalities.

Special features

- Very good selective protection response
- AC applications
- No derating up to +50 °C
- Integrated metering function
- Connection to a communication system
- Rated current range of 25 to 1250 A

3VA27 molded case circuit breaker

Depending on the application, the 3VA27 molded case circuit breaker handles line/motor and starter protection for low-voltage electrical power distribution, and supplements the existing IEC portfolio with a rated current of 1600 A.

Special features

- Choice between two ranges of electronic trip units with a number of equipment versions
- Variable and versatile connections
- Connection to a communication system
- Can be used as a platform circuit breaker with the 3WL10 ACB, with an extensive range of common accessories
- Rated current range of 800 to 1600 A

Switching devices and accessories

Protective functions	3VA10	3VA11	3VA12	3VA13	3VA14	3VA15
Size	100 A	160 A	250 A	400 A	630 A	1000 A
Switch disconnectors						
No protection	–	■	■	■	■	–
Thermal-magnetic						
Line protection	■	■	■	■	■	■
Starter protection	–	■	■	■	■	■
Electronic						
Line protection	–	–	–	–	–	–
Line and generator protection	–	–	–	–	–	–
Line and generator protection, with display	–	–	–	–	–	–
Line and generator protection, with display, with metering function	–	–	–	–	–	–
Motor protection	–	–	–	–	–	–
Motor protection, with display	–	–	–	–	–	–
Motor protection, with display, with metering function	–	–	–	–	–	–
Starter protection	–	–	–	–	–	–

Accessories

Size	100 A	160 A	250 A	400 A	630 A	1000 A
Accessories						
Auxiliary switches and signaling switches	■	■	■	■	■	■
Auxiliary releases	■	■	■	■	■	■
Connection technology	■	■	■	■	■	■
Plug-in version	–	■	■	■	■	–
Draw-out version	–	–	■	■	■	–
Front rotary operator	■	■	■	■	■	■
Door mounted rotary operator	■	■	■	■	■	■
Side wall mounted rotary operator	■	■	■	■	■	–
MO310 motor operator (mounted onto the side)	–	■		–	–	–
MO320 motor operator (mounted onto the front)	–	■	■	■	■	–
Motor operator with SEO520 stored energy operator	–	–	–	–	–	–
Motor operator (MO), integrable	–	–	–	–	–	–
Locking, blocking and interlocking	■	■	■	■	■	■
Residual current device (mounted onto the side)	–	■	■	–	–	–
Residual current device (mounted underneath)	–	■	■	–	–	–
Communications interface	–	–	–	–	–	–
EFB300	–	–	–	–	–	–
Testing and commissioning devices	–	–	–	–	–	–
Cover frame	■	■	■	■	■	■
DIN rail adapter	■	■	–	–	–	–
Busbar adapter	■	■	■	■	■	–

■ Available – Not available/not present

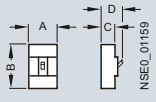
3VA20	3VA21	3VA22	3VA23	3VA24	3VA25	3VA26 new	3VA27
100 A	160 A	250 A	400 A	630 A	1000 A	1250 A	1600 A
–	–	–	–	–	–	–	■
–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–
■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■
–	■	■	■	■	■	–	■
–	■	■	■	■	■	–	■
–	■	■	■	■	■	–	■
–	■	■	■	■	■	–	■

100 A	160 A	250 A	400 A	630 A	1000 A	1250 A	1600 A
■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■
■	■	■	■	■	–	–	–
■	■	■	■	■	–	–	■
■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■
■	■	■	■	■	–	–	–
–	–	–	–	–	–	–	–
■	■	■	■	■	–	–	–
■	■	■	–	–	–	–	–
–	–	–	–	–	–	–	■
■	■	■	■	■	■	■	■
–	–	–	–	–	–	–	–
■	■	■	■	■	–	–	–
■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■
–	–	–	–	–	–	–	–
■	■	■	■	■	–	–	–

3VA1 switching devices up to 1000 A

Technical data



			3VA10			3VA11			3VA11		
Electrical characteristics according to IEC 60947-2											
Number of poles			3-/4-pole			1-pole			2-pole		
Size		A	100			160			160		
Rated operational current I_n at 50 °C ambient temperature		A	16 ... 100			16 ... 160			16 ... 160		
Rated operational voltage U_e 50/60 Hz AC		V	690			415			415		
Rated insulation voltage U_i		V	800			500			500		
Rated impulse withstand voltage U_{pulse}		kV	8			8			8		
Use in IT networks		V	■			■			■		
Frequency		Hz	0 ... 400			0 ... 400			0 ... 400		
Breaking capacity (line protection)			**B**	**N**	**S**	**N**	**S**	**M**	**N**	**S**	**M**
Rated ultimate short-circuit breaking capacity I_{cu}											
50/60 Hz AC	220 ... 240 V	kA	25	36	55	25	36	55	36	55	85
	380 ... 415 V	kA	16	25	36	5	6	6	25	36	55
	440 V	kA	8	16	25	–	–	–	–	–	–
	500 V	kA	5	5	7	–	–	–	–	–	–
	690 V	kA	5	5	7	–	–	–	–	–	–
DC [1]	125 V	kA	16	25	30	16	25	30	16	25	30
	250 V	kA	25	36	55	–	–	–	36	55	85
	500 V	kA	25	36	55	–	–	–	–	–	–
	600 V	kA	8	16	25	–	–	–	–	–	–
	750 V	kA	–	–	–	–	–	–	–	–	–
	1000 V [2]	kA	–	–	–	–	–	–	–	–	–
Rated operational short-circuit breaking capacity I_{cs}											
50/60 Hz AC	220 ... 240 V	kA	25	36	55	25	35	55	36	55	85
	380 ... 415 V	kA	16	25	36	5	6	6	25	36	55
	440 V	kA	8	16	25	–	–	–	–	–	–
	500 V	kA	5	5	5	–	–	–	–	–	–
	690 V	kA	5	5	5	–	–	–	–	–	–
DC	125 V	kA	16	25	30	16	25	30	16	25	30
	250 V	kA	25	36	55	–	–	–	36	55	85
	500 V	kA	25	36	55	–	–	–	–	–	–
	600 V	kA	8	16	25	–	–	–	–	–	–
	750 V	kA	–	–	–	–	–	–	–	–	–
	1000 V [2]	kA	–	–	–	–	–	–	–	–	–
Dimensions											
	A	mm	76.2 (3P) | 101.6 (4P)			25.4			50.8		
	B	mm	130			130			130		
	C	mm	70			70			70		
	D	mm	88			88			88		

[1] For detailed data on DC breaking capacity, number of interrupter poles and circuit diagrams, see FAQ www.siemens.com/lowvoltage/product-support (109779932)
[2] For I_n = 630 A / 800 A

■ Available – Not available/not present

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3VA11				3VA12			3VA13				3VA14				3VA15		
3-/4-pole				3-/4-pole			3-/4-pole				3-/4-pole				3-/4-pole		
160				250			400				630				1000		
16 ... 160				160 ... 250			320 ... 400				500 ... 630				630 ... 1000		
690				690			690				690				690		
800				800			800				800				800		
8				8			8				8				8		
■				■			■				■				≤500		
0 ... 400				0 ... 400			0 ... 400				0 ... 400				0 ... 400		
N	S	M	H	S	M	H	S	M	H	C	S	M	H	C	M	H	C
36	55	85	100	55	85	100	55	85	100	200	55	85	100	200	85	110	200
25	36	55	70	36	55	70	36	55	70	110	36	55	70	110	55	70	110
16	25	36	55	25	36	36	36	55	70	110	36	55	70	110	55	70	110
7	7	10	10	10	15	15	25	36	55	70	25	36	55	70	36	55	70
7	7	10	10	7	10	10	7	7	10	10	7	7	10	10	25	35	35
16	25	30	30	55	85	100	8	16	25	25	8	16	25	25	–	–	–
36	55	85	100	55	85	100	8	16	25	25	8	16	25	25	35	50	100
36	55	85	100	55	85	100	8	16	25	25	8	16	25	25	35	50	100
16	25	36	55	25	36	55	8	16	25	25	8	16	25	25	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	35	50	100
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	25	35	50
36	55	85	100	55	85	100	55	85	100	200	55	85	100	200	85	110	150
25	36	55	70	36	55	70	36	55	70	110	36	55	70	110	55	70	110
16	25	36	40	25	36	36	36	55	70	110	36	55	70	110	55	70	70
5	5	5	5	10	10	10	25	36	55	70	25	36	55	70	36	55	65
5	5	5	5	5	5	5	5	5	6	6	5	5	6	6	19	19	19
16	25	30	30	55	85	100	8	16	25	25	8	16	25	25	–	–	–
36	55	85	100	55	85	100	8	16	25	25	8	16	25	25	35	50	100
36	55	85	100	55	85	100	8	16	25	25	8	16	25	25	35	50	100
16	25	36	55	25	36	55	8	16	25	25	8	16	25	25	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	35	50	100
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	25	35	50
76.2 (3P) | 101.6 (4P)				105 (3P) | 140 (4P)			138 (3P) | 184 (4P)				138 (3P) | 184 (4P)				210 (3P) | 280 (4P)		
130				158			248				248				320		
70				70			110				110				120		
88				88			137				137				253		

System overview, page 2/20

3VA1 switching devices up to 1000 A

Application



			3VA10	3VA11	3VA11
Electrical characteristics according to IEC 60947-2					
Number of poles			3-/4-pole	1-pole	2-pole
Size		A	100	160	160
Rated current I_n at 50 °C ambient temperature		A	16 ... 100	16 ... 160	16 ... 160
3VA1 molded case circuit breakers for line protection, standard applications (IEC 60947-2)					
Service life/endurance (switching cycles)					
Mechanical (NO contact – NC contact)			20000	20000	20000
Electrical	380 ... 415 V	I_n	9000	9000	9000
		$I_n/2$	15000	15000	15000
	690 V		6300	6300	6300
Trip Units					
TM210	FTFM		■	■	■
TM220	ATFM		–	–	–
TM240	ATAM		–	–	–
3VA1 molded case circuit breakers for starter protection (IEC 60947-4-1 standards and specifications acc. to AC-1)					
Rated current I_n at 50 °C ambient temperature		A	–	–	–
Service life/endurance (switching cycles)					
Mechanical (NO contact – NC contact)			–	–	–
Electrical	380 ... 415 V		–	–	–
Trip Units					
TM120M	AM		–	–	–
Switch disconnectors (IEC 60947-3)					
Electrical characteristics according to IEC 60947-3					
Rated uninterrupted current I_u at 50 °C ambient temperature		A	–	–	–
Rated operational voltage U_e 50/60 Hz AC		V	–	–	–
Rated operational voltage U_e DC		V	–	–	–
Rated conditional short-circuit current I_q with upstream 3VA1 circuit breaker		kA	–	–	–
Permissible rated short-time current I_{cw} (1 s)		kA	–	–	–

■ Available – Not available/not present * On request

System overview, page 2/20

3VA11	3VA12	3VA13	3VA14	3VA15
3-/4-pole	3-/4-pole	3-/4-pole	3-/4-pole	3-/4-pole
160	250	400	630	1000
16 ... 160	160 ... 250	320 ... 400	500 ... 630	630 ... 1000
20000	20000	20000	20000	10000
9000	8000	6000	4000	4600
15000	14000	12000	8000	7000
6300	5400	4200	3000	3200
■	–	–	–	–
■	–	–	–	–
■	■	■	■	■
32 ... 125	160, 200	250	400 ... 500	630 ... 800
20000	20000	20000	20000	10000
9000	8000	6000	4000	4600
■	■	■	■	■
63 ... 160	250	400	630 (3P), 500 (4P)	–
690	690	690	690	–
500 (3P), 600 (4P)	500 (3P), 600 (4P)	500 (3P), 600 (4P)	500 (3P), 600 (4P)	–
70 at 415 V	70 at 415 V	*	*	–
2	3	6	7.6 (3P), 6 (4P)	–

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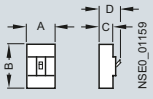
3VA2 switching devices up to 1600 A

Technical data



			3VA20				3VA21					3VA22				
Electrical characteristics according to IEC 60947-2																
Number of poles			3-/4-pole				3-/4-pole					3-/4-pole				
Size		A	100				160					250				
Rated 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_{pulse}		kV	8				8					8				
Use in IT networks		V	■				■					■				
Frequency		Hz	50/60				50/60					50/60				
Breaking capacity			**M**	**H**	**C**	**L**	**M**	**H**	**C**	**L**	**E**	**M**	**H**	**C**	**L**	**E**
Rated ultimate short-circuit breaking capacity I_{cu}																
50/60 Hz AC	220 ... 240 V	kA	85	110	150	200	85	110	150	200	–	85	110	150	200	–
	380 ... 415 V	kA	55	85	110	150	55	85	110	150	200	55	85	110	150	200
	440 V	kA	55	85	110	150	55	85	110	150	–	55	85	110	150	–
	500 V	kA	36	55	85	100	36	55	85	100	–	36	55	85	100	–
	690 V	kA	2	2	2	25	2.5	2.5	2.5	25	85	3	3	3	25	85
DC	125 V (1 switching pole)	kA	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	250 V (2 switching poles)	kA	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	500 V (3 switching poles)	kA	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	600 V (4 switching poles)	kA	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Rated service short-circuit breaking capacity I_{cs}																
50/60 Hz AC	220 ... 240 V	kA	85	110	150	200	85	110	150	200	–	85	110	150	200	–
	380 ... 415 V	kA	55	85	110	150	55	85	110	150	200	55	85	110	150	200
	440 V	kA	55	85	110	150	55	85	110	150	–	55	85	110	150	–
	500 V	kA	36	55	85	100	36	55	85	100	–	36	55	85	100	–
	690 V	kA	2	2	2	18	2.5	2.5	2.5	18	65	3	3	3	18	65
DC	125 V (1 switching pole)	kA	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	250 V (2 switching poles)	kA	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	500 V (3 switching poles)	kA	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	600 V (4 switching poles)	kA	–	–	–	–	–	–	–	–	–	–	–	–	–	–
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				

■ Available – Not available/not present

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3VA23					3VA24					3VA25			3VA26 new			3VA27		
3-/4-pole					3-/4-pole					3-/4-pole			3-/4-pole			3-/4-pole		
400					630					1000			1250			1600		
250 ... 400					400 ... 630					630 ... 1000			1250			800 ... 1600		
690					690					690			690			690		
800					800					800			800			1000		
8					8					8			8			8		
■					■					≤500			≤500			■		
50/60					50/60					50/60			50/60			50/60		
M	**H**	**C**	**L**	**E**	**M**	**H**	**C**	**L**	**E**	**M**	**H**	**C**	**M**	**H**	**C**	**M**	**H**	**C**
85	110	150	200	–	85	110	150	200	–	85	110	200	85	110	200	100	150	200
55	85	110	150	200	55	85	110	150	200	55	85	110	55	85	110	55	85	110
55	85	110	–	–	55	85	110	–	–	55	85	110	55	85	110	55	85	100
36	55	85	–	–	36	55	85	–	–	36	55	85	36	55	85	36	55	85
5	5	5	25	85	6	6	6	25	85	25	35	35	25	35	35	25	36	50
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
85	110	150	200	–	85	110	150	200	–	85	110	150	85	110	150	100	150	200
55	85	110	150	200	55	85	110	150	200	55	85	85	55	85	85	55	85	110
55	85	110	–	–	55	85	110	–	–	55	70	70	55	70	70	55	85	100
36	55	65	–	–	36	55	85	–	–	36	55	65	36	55	65	36	55	63
5	5	5	18	65	6	6	6	18	65	19	19	19	19	19	19	25	36	36
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
138 (3P) | 184 (4P)					138 (3P) | 184 (4P)					210 (3P) | 280 (4P)			210 (3P) | 280 (4P)			210 (3P) | 280 (4P)		
248					248					320			320			291		
110					110					120			120			171 (toggle operating mechanism) | 183 (stored energy operating mechanism)		
137					137					253			253			225		

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3VA2 switching devices up to 1600 A

Application



			3VA20	3VA21	3VA22
Electrical characteristics according to IEC 60947-2					
Number of poles			3-/4-pole	3-/4-pole	3-/4-pole
Size		A	100	160	250
Rated current I_n at 50 °C ambient temperature		A	25 ... 100	25 ... 160	160 ... 250
Service life/endurance (switching cycles)					
Mechanical (NO contact – NC contact)			25000	25000	25000
Electrical	380 ... 415 V	I_n	15000	14000	12000
		$I_n/2$	20000	20000	17000
	690 V		10500	9800	8400
Trip units					
ETU320	LI		■	■	■
ETU330	LIG		■	■	■
ETU340	ELISA LI		–	■	■
ETU350	LSI		■	■	■
ETU550/ETU850	LSI		■	■	■
ETU560/ETU860	LSIG		■	■	■
ETU650	LSI		–	–	–
ETU360	LSIG		–	–	–
ETU660	LSIG		–	–	–
3VA2 molded case circuit breakers for motor/starter protection (IEC 60947-4-1 standards and specifications acc. to AC-1)					
Rated current I_n at 50 °C ambient temperature		A	–	25 ... 100	160 ... 200
Service life/endurance (switching cycles)					
Mechanical (NO contact – NC contact)			–	25000	25000
Electrical	380 ... 415 V		–	14000	12000
Trip units					
ETU310M	I		–	■	■
ETU350M	LSI		–	■	■
ETU550M	LSI		–	■	■
ETU860M	LSIG		–	■	■
ETU320	LI		–	–	–
ETU350	LSI		–	–	–
ETU360	LSIG		–	–	–
ETU650	LSIG		–	–	–
ETU660	LSIG		–	–	–

■ Available – Not available/not present

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3VA23	3VA24	3VA25	3VA26 new	3VA27
3-/4-pole	3-/4-pole	3-/4-pole	3-/4-pole	3-/4-pole
400	630	1000	1250	1600
250 ... 400	400 ... 630	630 ... 1000	1250	800 ... 1600
20000	20000	10000	10000	10000
6000	5000	4600	4600	2000
12000	10000	7000	7000	–
4200	3500	3200	3200	–
■	■	■	■	■
■	■	■	■	–
■	■	■	■	–
■	■	■	■	■
■	■	■	■	–
■	■	■	■	–
–	–	–	–	■
–	–	–	–	■
–	–	–	–	■
250	400 ... 500	630 ... 800	–	800 ... 1600
20000	20000	10000	–	10000
6000	5000 (400 A) 3000 (500 A)	4600	–	2000
■	■	–	–	–
■	■	■	–	–
■	■	■	–	–
■	■	■	–	–
–	–	–	–	■
–	–	–	–	■
–	–	–	–	■
–	–	–	–	■
–	–	–	–	■

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Trip units

Protection system for 3VA molded case circuit breakers up to 1000 A

Trip units	Thermal-magnetic	Electronic	Electronic with display	Electronic with display and metering function
				
	TM 2-series	**ETU 3-series**	**ETU 5-series**	**ETU 8-series**
Protection function				
Line protection	TM210, TM220, TM240	ETU320, ETU330, ETU340, ETU350	ETU550, ETU560	ETU850, ETU860
Starter protection	TM120M	ETU310M	–	–
Motor protection	–	ETU350M	ETU550M	ETU860M
Integrated functions				
Parameterizing	Setting and reading the parameters • Current values	Setting and reading the parameters • Current values • Delay times	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	–	–	 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)
External function box	–	 EFB300 external function box for connection to the ETU	 EFB300 external function box for connection to the ETU	 EFB300 external function box for connection to the ETU
Communication module	–	–	 COM060 communication module	 COM060 communication module
Breaker data server	–	–	 COM800/COM100 breaker data server with interface to • PROFIBUS • PROFINET • Modbus RTU • Ethernet (Modbus TCP)	 COM800/COM100 breaker data server with interface to • PROFIBUS • PROFINET • Modbus RTU • Ethernet (Modbus TCP)
External display	–	–	 DSP800 external display for installing in the cubicle door	 DSP800 external display for installing in the cubicle door
Test device	–	 TD300/TD400/TD500 test device	 TD300/TD400/TD500 test device	 TD300/TD400/TD500 test device

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Protection functions of the 3VA1 with thermal-magnetic trip unit

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

[1] 3VA10 only without N protection
3VA11, 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 × I_r	–	■	■	–	■	–	■	–	■	■	■	–
t_c	–	–	–	–	–	■	–	■	–	–	–	■
t_p	–	–	–	–	–	–	–	■	–	–	–	■
Thermal image	■	■	■	■	■	■	■	■	■	■	■	■
Thermal image can be switched on/off	–	–	–	–	–	–	■	–	■	■	■	–
I_{sd}	–	–	–	–	■	■	■	■	■	■	■	■
t_{sd} at 8 × I_r	–	–	–	–	■	■	■	■	■	■	■	■
Characteristic in S range: I^2t_{sd}	–	–	–	–	■	–	■	–	■	■	■	–
Characteristic in S range: selectable I^2t_{sd} / t_{sd}	–	–	–	–	–	–	■	–	■	■	■	–
I_i	■	■	■	■	■	■	■	■	■	■	■	■
I_N [1]	–	■	■	■	■	–	■	–	■	■	■	–
I_g	–	–	■	–	–	–	–	–	■	–	■	■
t_g at 2 × 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	–	■	■	■	■	■	■	■	■	■	■	■

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

Available for:
- Circuit breakers with ETU (4-pole)
- Circuit breakers with ETU5/ETU8 3-pole with external neutral conductor transformer or 4-pole

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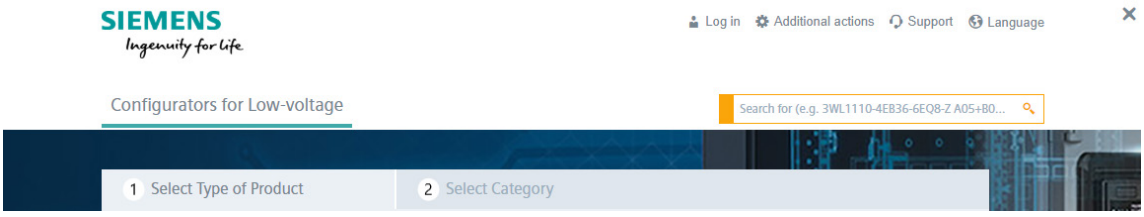
Online configurator highlights

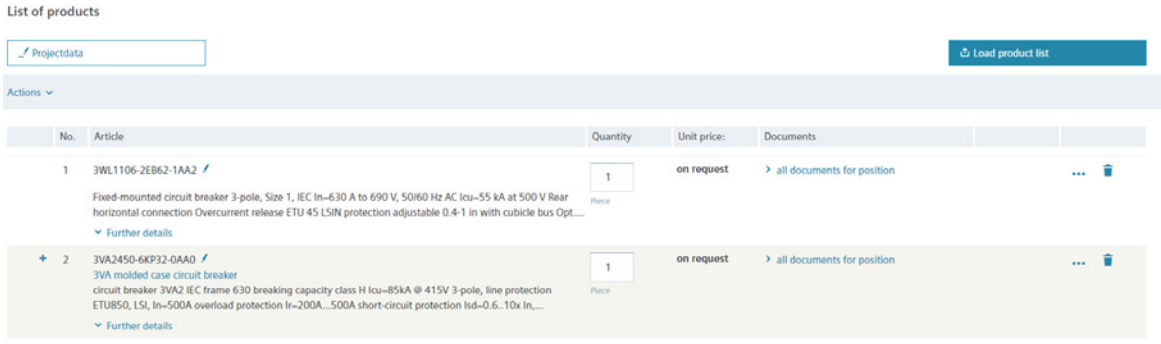
www.siemens.com/lowvoltage/configurators

Search function with global direct input

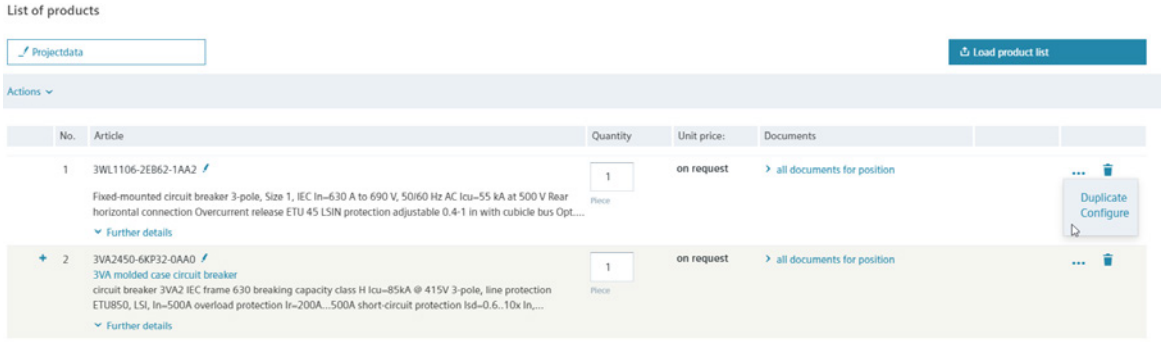
Searches for specific terms and jumps to MLFB based on input to the correct configurator



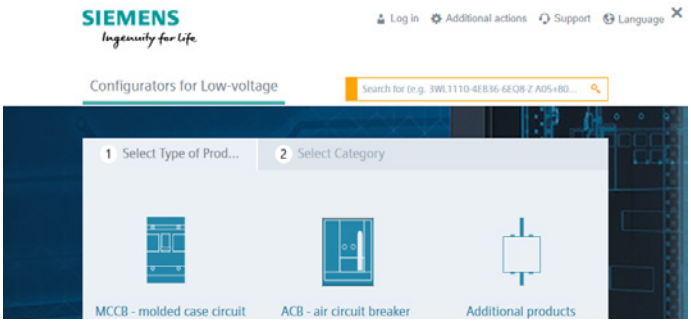
Product list stores multiple configurations and can transfer them collectively to the shopping cart



Recall of completed configurations for modification or additional configuration

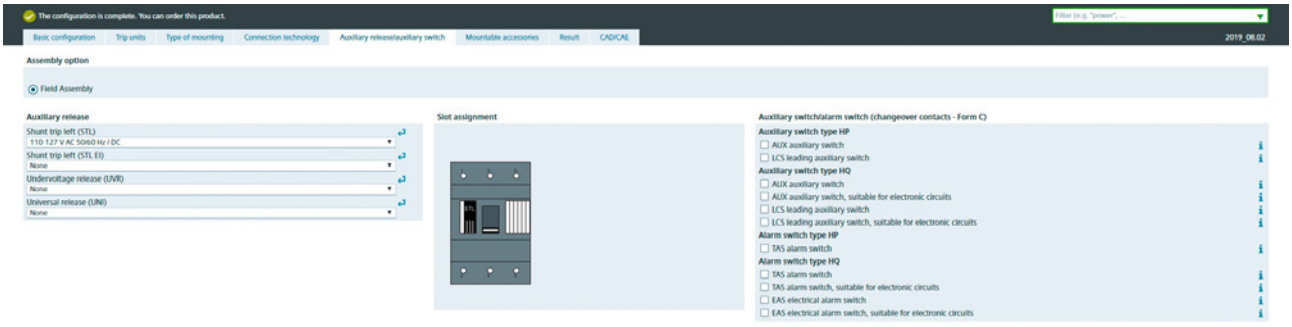


Responsive Design

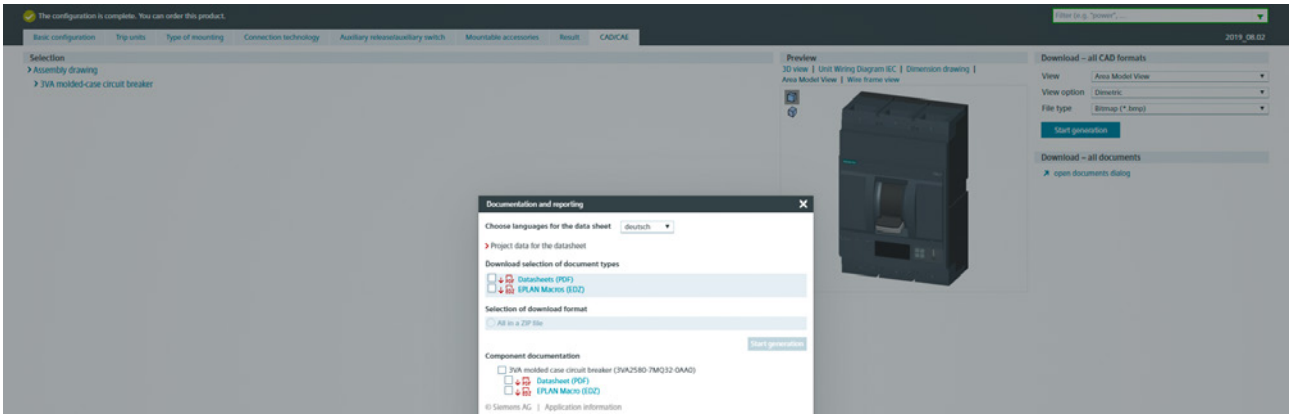


www.siemens.com/lowvoltage/3va-configurator and www.siemens.com/lowvoltage/3va27-configurator

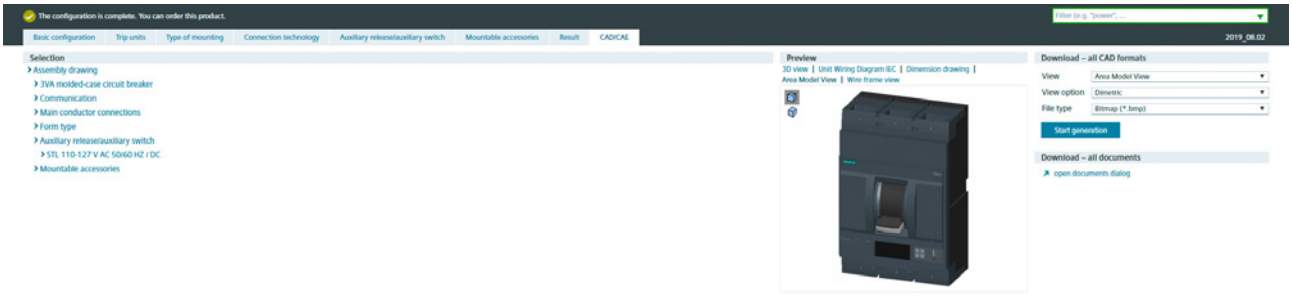
Visualization of the internally mountable accessories (slot assignment)



Download of the individual edz files for 3VA



Automatic generation of the 3D model, 2D dimension drawing and the internal circuit diagram according to IEC



System overview

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

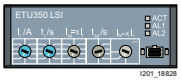
Switching devices

3VA1 for standard applications

3VA2 for selective applications

Trip units

Thermal-magnetic trip unit (TMTU)



Electronic trip unit (ETU)

Electronic trip unit (ETU) with display, and optionally with metering function

Trip unit accessories

24 V module

Communication module

Breaker data server

External display

Test device

Installation type

Fixed-mounted

Draw-out unit, complete kit

Plug-in unit, complete kit

Supplementary accessories

Auxiliary circuit connector

Door feedthrough

Position signaling switch

Cylinder lock adapter

Crank

Main conductor connection

Front bus connectors extended

Front bus connectors offset

Circular conductor terminal

Box terminal

Nut keeper units, right-angled

Connection accessories

Insulation accessories

Note:
You will find a detailed range of accessories in the Accessories and spare parts section.

Auxiliary releases/auxiliary switches


Shunt trip


Universal release


Undervoltage release


Auxiliary switch

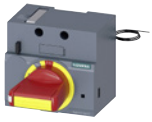

Tripped signaling switch


Leading changeover switch LCS


Electrical alarm switches EAS


Short circuit alarm switch SAS

Mountable accessories


Manual operator


Motorized operating mechanism


Residual current device

Additional circuit breaker accessories

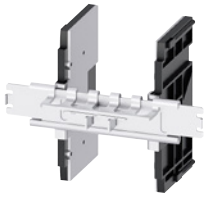

Cover frame


Adapter for DIN rails


Locking device


Cylinder lock

Mechanical interlocks


Sliding bar interlock


Interlocking with rod


Handle interlock using a Bowden cable

Note:
You will find a detailed range of accessories in the Accessories and spare parts section.

Structure of the article numbers

Basic configuration for line and generator protection

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

			4	5	6	7	8	9	10	11	12
			3VA				–				– 0AA0
Trip units	Thermal-magnetic		1								
	Electronic		2								
			3VA10	3VA11	3VA12	3VA13	3VA14	3VA15	3VA20	3VA21	3VA22	3VA23	3VA24	3VA25	3VA26				
Size (SZ)	100 A		■	–	–	–	–	–	■	–	–	–	–	–	–	0			
	160 A		–	■	–	–	–	–	–	■	–	–	–	–	–	1			
	250 A		–	–	■	–	–	–	–	–	■	–	–	–	–	2			
	400 A		–	–	–	■	–	–	–	–	–	■	–	–	–	3			
	630 A		–	–	–	–	■	–	–	–	–	–	■	–	–	4			
	1000 A		–	–	–	–	–	■	–	–	–	–	–	■	–	5			
	1250 A		–	–	–	–	–	–	–	–	–	–	–	–	■	6			
Max. rated current I_n	Line protection	16 A	■	■	–	–	–	–	–	–	–	–	–	–	–		9	6	
		20 A	■	■	–	–	–	–	–	–	–	–	–	–	–		2	0	
		25 A	■	■	–	–	–	–	■	■	–	–	–	–	–		2	5	
		32 A	■	■	–	–	–	–	–	–	–	–	–	–	–		3	2	
		40 A	■	■	–	–	–	–	■	■	–	–	–	–	–		4	0	
		50 A	■	■	–	–	–	–	–	–	–	–	–	–	–		5	0	
		63 A	■	■	–	–	–	–	■	■	–	–	–	–	–		6	3	
		80 A	■	■	–	–	–	–	–	–	–	–	–	–	–		8	0	
		100 A	■	■	–	–	–	–	■	■	–	–	–	–	–		1	0	
		125 A	–	■	–	–	–	–	–	–	–	–	–	–	–		1	2	
		160 A	–	■	■		–	–	–	■	■	–	–	–	–		1	6	
		200 A	–	–	■	–	–	–	–	–	–	–	–	–	–		2	0	
		250 A	–	–	■	–	–	–	–	–	■	■	–	–	–		2	5	
		320 A	–	–	–	■	–	–	–	–	–	–	–	–	–		3	2	
		400 A	–	–	–	■	–	–	–	–	–	■	■	–	–		4	0	
		500 A	–	–	–	–	■	–	–	–	–	–	■*	–	–		5	0	
		630 A	–	–	–	–	■	■	–	–	–	–	■	■	–		6	3	
		800 A	–	–	–	–	–	■	–	–	–	–	–	■	–		8	0	
		1000 A	–	–	–	–	–	■	–	–	–	–	–	■	–		1	0	
		1250 A	–	–	–	–	–	–	–	–	–	–	–	–	■		1	2	
	Generator protection	25 A	–	–	–	–	–	–	■	■	–	–	–	–	–		2	5	
		40 A	–	–	–	–	–	–	■	■	–	–	–	–	–		4	0	
		63 A	–	–	–	–	–	–	■	■	–	–	–	–	–		6	3	
		100 A	–	–	–	–	–	–	■	■	–	–	–	–	–		1	0	
		160 A	–	–	–	–	–	–	–	■	■	–	–	–	–		1	6	
		250 A	–	–	–	–	–	–	–	–	■	■	–	–	–		2	5	
		400 A	–	–	–	–	–	–	–	–	–	■	■	–	–		4	0	
		500 A	–	–	–	–	–	–	–	–	–	–	■*	–	–		5	0	
		630 A	–	–	–	–	–	–	–	–	–	–	■	■	–		6	3	
		800 A	–	–	–	–	–	–	–	–	–	–	–	■	–		8	0	
		1000 A	–	–	–	–	–	–	–	–	–	–	–	■	–		1	0	
		1250 A	–	–	–	–	–	–	–	–	–	–	–	–	■		1	2	
	Switch disconnector	63 A	–	■	–	–	–	–	–	–	–	–	–	–	–		6	3	
		100 A	–	■	–	–	–	–	–	–	–	–	–	–	–		1	0	
		125 A	–	■	–	–	–	–	–	–	–	–	–	–	–		1	2	
		160 A	–	■	–	–	–	–	–	–	–	–	–	–	–		1	6	
		250 A	–	–	■	–	–	–	–	–	–	–	–	–	–		2	5	
		400 A	–	–	–	■	–	–	–	–	–	–	–	–	–		4	0	
		500 A	–	–	–	–	■	–	–	–	–	–	–	–	–		5	0	
		630 A	–	–	–	–	■	–	–	–	–	–	–	–	–		6	3	

* With ETU 5-series and 8-series, utilization category B only

Quick selection guide, pages 2/6 and 2/12

3VA 4 5 6 7 – 8 9 10 11 12 – 0AA0

			3VA10	3VA11	3VA12	3VA13	3VA14	3VA15	3VA20	3VA21	3VA22	3VA23	3VA24	3VA25	3VA26			8	9	10	11	12
Short-circuit breaking capacity $I_{cu} = I_{cs}$ at 415 V	Without overload protection		–	■	–	■	–	■	–	–	–	–	–	–	–			1				
	Without short-circuit protection		–	■	■	■	■	–	–	–	–	–	–	–	–			1				
	16 kA		■	–	–	–	–	–	–	–	–	–	–	–	–			2				
	25 kA		■	■	–	–	–	–	–	–	–	–	–	–	–			3				
	36 kA		■	■	■	■	■	–	–	–	–	–	–	–	–			4				
	55 kA		–	■	■	■	■	■	■	■	■	■	■	■	■			5				
	70 kA		–	■	■	■	■	■	–	–	–	–	–	–	–			6				
	85 kA		–	–	–	–	–	–	■	■	■	■	■	■	■			6				
	110 kA		–	–	–	■	■	■	■	■	■	■	■	■	■			7				
	150 kA		–	–	–	–	–	–	■	■	■	■	■	–	–			8				
	200 kA [1]		–	–	–	–	–	–	–	■	■	■	■	–	–			0				
Protection function thermal-magnetic	No protection		–	■	■	■	■	–	–	–	–	–	–	–	–	SD100	–			A		
	Line protection		■	■	–	–	–	–	–	–	–	–	–	–	–	TM210	FTFM			D		
			–	■	–	–	–	–	–	–	–	–	–	–	–	TM220	ATFM			E		
			–	■	■	■	■	■	–	–	–	–	–	–	–	TM240	ATAM			F		
Protection function thermal-magnetic, neutral conductor protection	No protection																		A			
	Line protection	Without neutral conductor protection																	E			
		50% neutral conductor protection																	F			
		100% neutral conductor protection																	G			
Protection function electronic	Line protection		–	–	–	–	–	–	■	■	■	■	■	■	■	ETU320	LI	(N) [2]	H	L		
			–	–	–	–	–	–	■	■	■	■	■	■	■	ETU330	LIG	(N) [2]	H	M		
			–	–	–	–	–	–	■	■	■	■	■	■	■	ETU340	ELISA LI	(N) [2]	H	K		
	Line and generator protection		–	–	–	–	–	–	■	■	■	■	■	■	■	ETU350	LSI	(N) [2]	H	N		
	Line and generator protection, with display		–	–	–	–	–	–	■	■	■	■	■	■	■	ETU550	LSI	(N) [3]	J	P		
			–	–	–	–	–	–	■	■	■	■	■	–	–	ETU560	LSIG	(N) [3]	J	Q		
	Line and generator protection, with display, with metering function		–	–	–	–	–	–	■	■	■	■	■	–	–	ETU850	LSI	(N) [3]	K	P		
			–	–	–	–	–	–	■	■	■	■	■	■	■	ETU860	LSIG	(N) [3]	K	Q		
Number of poles	1-pole	Line protection	–	■*	–	–	–	–	–	–	–	–	–	–	–						1	
	2-pole	Line protection	–	■*	–	–	–	–	–	–	–	–	–	–	–						2	
	3-pole	Line protection	■	■	■	■	■	■	■	■	■	■	■	■	■						3	
		Generator protection	–	–	–	–	–	–	■	■	■	■	■	■	■						3	
	4-pole	Line protection	■	■	■	■	■	■	■	■	■	■	■	■	■						4	
		Generator protection	–	–	–	–	–	–	■	■	■	■	■	■	■						4	
Connection technology	Nut keeper kit	Line protection	■	■	■	■	■	■	■	■	■	■	■	■	■							2
		Generator protection	–	–	–	–	–	–	■	■	■	■	■	■	■							2
	Box terminal	Line protection	■	■	–	–	–	–	■	■	–	–	–	–	–							6
		Generator protection	–	–	–	–	–	–	■	■	–	–	–	–	–							6

[1] Available for 3 and 8-series ETUs

[2] Neutral conductor protection for 4-pole breakers

[3] Neutral conductor protection for 3-pole breakers with an external neutral conductor transformer or for 4-pole breakers

* For TM210 only

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Structure of the article numbers

Basic configuration for starter and motor protection

**The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator**

			3VA11	3VA12	3VA13	3VA14	3VA15	3VA21	3VA22	3VA23	3VA24	3VA25	4	5	6	7	8	9	10	11	12
	3VA																				– 0AA0
Trip units	Thermal-magnetic												1								
	Electronic												2								
Size (SZ)	160 A		■	–	–	–	–	■	–	–	–	–		1							
	250 A		–	■	–	–	–	–	■	–	–	–		2							
	400 A		–	–	■	–	–	–	–	■	–	–		3							
	630 A		–	–	–	■	–	–	–	–	■	–		4							
	1000 A		–	–	–	–	■	–	–	–	–	■		5							
Max. rated current I_n	Starter protection	1 A	■	–	–	–	–	–	–	–	–	–			8	1					
		2 A	■	–	–	–	–	–	–	–	–	–			0	2					
		4 A	■	–	–	–	–	–	–	–	–	–			0	4					
		8 A	■	–	–	–	–	–	–	–	–	–			0	8					
		12.5 A	■	–	–	–	–	–	–	–	–	–			9	2					
		20 A	■	–	–	–	–	–	–	–	–	–			2	0					
		25 A	–	–	–	–	–	■	–	–	–	–			2	5					
		32 A	■	–	–	–	–	–	–	–	–	–			3	2					
		40 A	■	–	–	–	–	■	–	–	–	–			4	0					
		50 A	■	–	–	–	–	–	–	–	–	–			5	0					
		63 A	■	–	–	–	–	■	–	–	–	–			6	3					
		80 A	■	–	–	–	–	–	–	–	–	–			8	0					
		100 A	■	–	–	–	–	■	–	–	–	–			1	0					
		125 A	■	–	–	–	–	–	–	–	–	–			1	2					
		160 A	–	■	–	–	–	–	■	–	–	–			1	6					
		200 A	–	■	–	–	–	–	■	–	–	–			2	0					
		250 A	–	–	■	–	–	–	–	■	–	–			2	5					
		320 A	–	–	■	–	–	–	–	–	–	–			3	2					
		400 A	–	–	–	■	–	–	–	–	■	–			4	0					
		500 A	–	–	–	■	–	–	–	–	■	–			5	0					
		630 A	–	–	–	–	■	–	–	–	–	–			6	3					
		800 A	–	–	–	–	■	–	–	–	–	–			8	0					
	Motor protection	25 A	–	–	–	–	–	■	–	–	–	–			2	5					
		40 A	–	–	–	–	–	■	–	–	–	–			4	0					
		63 A	–	–	–	–	–	■	–	–	–	–			6	3					
		100 A	–	–	–	–	–	■	–	–	–	–			1	0					
		160 A	–	–	–	–	–	–	■	–	–	–			1	6					
		200 A	–	–	–	–	–	–	■	–	–	–			2	0					
		250 A	–	–	–	–	–	–	–	■	–	–			2	5					
		400 A	–	–	–	–	–	–	–	–	■	–			4	0					
		500 A	–	–	–	–	–	–	–	–	■	–			5	0					
		630 A	–	–	–	–	–	–	–	–	–	■			6	3					
		800 A	–	–	–	–	–	–	–	–	–	■			8	0					
Short-circuit breaking capacity $I_{cu} = I_{cs}$ at 415 V	55 kA		■	■	■	■	■	■	■	■	■	■					5				
	70 kA		■	■	■	■	■	–	–	–	–	–					6				
	85 kA		–	–	–	–	–	■	■	■	■	■					6				
	110 kA		–	–	■	■	■	■	■	■	■	■					7				
	200 kA		–	–	–	–	–	■	■	■	■	–					0				

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3VA 4 5 6 7 – 8 9 10 11 12 – **0AA0**

			3VA11	3VA12	3VA13	3VA14	3VA15	3VA21	3VA22	3VA23	3VA24	3VA25				9	10	11	12
Protection function thermal-magnetic	Starter protection		■	–	–	–	–	–	–	–	–	–		TM110M	FM	M	G		
			■	■	■	■	■	–	–	–	–	–		TM120M	AM	M	H		
Protection function electronic	Motor protection		–	–	–	–	–	■	■	■	■	■		ETU350M	LSI	M	N		
	Motor protection, with display		–	–	–	–	–	■	■	■	■	■		ETU550M	LSI	M	P		
	Motor protection, with display, with metering function		–	–	–	–	–	■	■	■	■	■		ETU860M	LSIG	M	Q		
	Starter protection		–	–	–	–	–	■	■	■	■	–		ETU310M	I	M	S		
Number of poles	3-pole	Starter protection	■	■	■	■	■	■	■	■	■	–						3	
		Motor protection	–	–	–	–	–	■	■	■	■	■						3	
Connection technology	Nut keeper kit	Starter protection	■	■	■	■	■	■	■	■	■	–							2
		Motor protection	–	–	–	–	–	■	■	■	■	■							2
	Box terminal	Starter protection	■	–	–	–	–	■	–	–	–	–							6
		Motor protection	–	–	–	–	–	■	–	–	–	–							6

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Internal accessories

Auxiliary switches and alarm switches

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

Auxiliary switches AUX

- Used to signal the position of the main contacts of the molded case circuit breaker
- The contacts of the auxiliary switch and the molded case circuit breaker close in unison

Type	Width	I_e	U_e AC/DC	Version	3VA10	3VA11	3VA12 3VA13 3VA14	3VA15	3VA20 3VA21 3VA22 3VA23 3VA24 3VA25 3VA26
HQ	7 mm (1 slot)	6 A	240 V/250 V	Standard			3VA9988-0AA12		
		<1 A	24 V/24 V	Electronic-compatible			3VA9988-0AA13		
HP	14 mm (2 slots)	10 A	600 V/250 V	Standard	–	3VA9988-0AA11			

Leading changeover switches LCS

- Used for load shedding, for example
- Signal the opening of the main contacts with a lead time of 20 ms in advance of circuit breaker trips

Type	Width	I_e	U_e AC/DC	Version	3VA10	3VA11	3VA12 3VA13 3VA14	3VA15	3VA20 3VA21 3VA22 3VA23 3VA24 3VA25 3VA26
HQ	7 mm (1 slot)	6 A	240 V/250 V	Standard	–	3VA9988-0AA22			
		<1 A	24 V/24 V	Electronic-compatible	–	3VA9988-0AA23			
HP	14 mm (2 slots)	10 A	600 V/250 V	Standard	–	3VA9988-0AA21			

Trip alarm switches TAS

- Signal every circuit breaker tripping operation
- Are actuated whenever the molded case circuit breaker switches to the TRIP position

Type	Width	I_e	U_e AC/DC	Version	3VA10	3VA11	3VA12 3VA13 3VA14	3VA15	3VA20 3VA21 3VA22 3VA23 3VA24 3VA25 3VA26
HQ	7 mm (1 slot)	6 A	240 V/250 V	Standard			3VA9988-0AB12		
		<1 A	24 V/24 V	Electronic-compatible			3VA9988-0AB13		
HP	14 mm (2 slots)	10 A	600 V/250 V	Standard	–	3VA9988-0AB11			

Short circuit alarm switches SAS

- Signal tripping operations only if they have been initiated by a short circuit
- The tripping operation must be reset by deliberate acknowledgement of the fault before the molded case circuit breaker can be switched to ON again

Type	Width	I_e	U_e AC/DC	Version	3VA10	3VA11	3VA12 3VA13 3VA14	3VA15	3VA20 3VA21 3VA22 3VA23 3VA24 3VA25 3VA26
HQ	7 mm (1 slot)	6 A	240 V/250 V	Standard	3VA9988-0AB32	3VA9988-0AB32	3VA9988-0AB34	–	–
		<1 A	24 V/24 V	Electronic-compatible	3VA9988-0AB33	3VA9988-0AB33	3VA9988-0AB35	–	–

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

Type	Width	I_e	U_e AC/DC	Version	3VA10	3VA11	3VA12 3VA13 3VA14	3VA15	3VA20 3VA21 3VA22 3VA23 3VA24 3VA25 3VA26
HQ	7 mm (1 slot)	6 A	240 V/250 V	Standard	–	–	–	–	3VA9988-0AB22
		<1 A	24 V/24 V	Electronic-compatible	–	–	–	–	3VA9988-0AB23

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Auxiliary releases

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

			3VA10 3VA11 3VA12 3VA13 3VA14 3VA15	3VA20 3VA21 3VA22 3VA23 3VA24	3VA25 3VA26
Shunt trips left STL					
• Used for remote-controlled tripping of the molded case circuit breaker • Have particularly low power consumption • Especially suitable for electrical interlocking in the EI variant [1]					
	**Version**	**U_e 50/60 Hz AC**	**U_e DC**		
	Standard	–	12 V	3VA9988-0BL10	
		24 V	24 ... 30 V	3VA9988-0BL30	
		48 ... 60 V	48 ... 60 V	3VA9988-0BL31	
		110 ... 127 V	110 ... 127 V	3VA9988-0BL32	
		208 ... 277 V	220 ... 250 V	3VA9988-0BL33	
		380 ... 600 V	–	3VA9988-0BL20	
	Electrical (EI)	–	24 V	3VA9988-0BM10	
Shunt trips flexible STF					
• Used for remote-controlled tripping of the molded case circuit breaker • Flexible installation					
	**U_e 50/60 Hz AC**	**U_e DC**			
	24 V	–	–	3VA9988-0BA20	–
	48 ... 60 V	–	–	3VA9988-0BA21	–
	110 ... 127 V	–	–	3VA9988-0BA22	–
	208 ... 277 V	–	–	3VA9988-0BA23	–
	380 ... 500 V	–	–	3VA9988-0BA24	–
	600 V	–	–	3VA9988-0BA25	–
Universal releases UNI					
• Combination of shunt trip and undervoltage release					
	**U_e 50/60 Hz AC**	**U_e DC**			
	–	12 V	3VA9908-0BD11		
		24 V	3VA9908-0BD12		
		48 V	3VA9908-0BD13		
Undervoltage releases UVR					
	• Trip the molded case circuit breaker in the event that the rated voltage of a monitored circuit drops below a minimum permissible limit or fails altogether				
	U_e 50/60 Hz AC	**U_e DC**			
	–	12 V	3VA9908-0BB10		
	–	24 V	3VA9908-0BB11		
	–	48 V	3VA9908-0BB12		
	–	60 V	3VA9908-0BB13		
	–	125 ... 127 V	3VA9908-0BB14		
	–	220 ... 230 V	3VA9908-0BB15		
	–	250 V	3VA9908-0BB16		
	24 V	–	3VA9908-0BB20		
	48 V	–	3VA9908-0BB21		
	60 V	–	3VA9908-0BB22		
	110 V	–	3VA9908-0BB23		
	120 ... 127 V	–	3VA9908-0BB24		
	208 ... 230 V	–	3VA9908-0BB25		
	380 ... 400 V	–	3VA9908-0BB26		
	440 ... 480 V	–	3VA9908-0BB27		
Time-delay devices for undervoltage releases					
	**U_e 50/60 Hz AC**	**U_e DC**			
	110 V	110 V	3VA9988-0BF21		
	230 V	230 V	3VA9988-0BF22		
	–	24 V	3VA9988-0BF23		

[1] In combination with TAS and AUX. For circuit diagrams, see the Operating Instructions

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Manual operators

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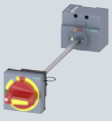
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26
Front mounted rotary operators								
	• Handle • For IEC • Degree of protection IP30 • For 3-pole and 4-pole breakers							
	Version	**Illumination kit**	**Door interlock**					
	Standard (gray)	Without	Without	3VA9157-0EK11	3VA9257-0EK11	3VA9267-0EK11	3VA9467-0EK11	3VA9687-0EK11
			With	3VA9157-0EK21	3VA9257-0EK21	3VA9267-0EK21	3VA9467-0EK21	3VA9687-0EK21
		With	Without	3VA9157-0EK13	3VA9257-0EK13	3VA9267-0EK13	3VA9467-0EK13	–
			With	3VA9157-0EK23	3VA9257-0EK23	3VA9267-0EK23	3VA9467-0EK23	–
	EMERGENCY-OFF (red/yellow)	Without	Without	3VA9157-0EK15	3VA9257-0EK15	3VA9267-0EK15	3VA9467-0EK15	3VA9687-0EK15
			With	3VA9157-0EK25	3VA9257-0EK25	3VA9267-0EK25	3VA9467-0EK25	3VA9687-0EK25
		With	Without	3VA9157-0EK17	3VA9257-0EK17	3VA9267-0EK17	3VA9467-0EK17	–
			With	3VA9157-0EK27	3VA9257-0EK27	3VA9267-0EK27	3VA9467-0EK27	–
Door mounted rotary operators with tolerance compensation								
	• Shaft 300 mm (325 mm for 3VA15/3VA25) • With mounting tolerance compensation • Handle with masking plate 75 × 75 mm (100 × 100 mm for 3VA15/3VA25) • Degree of protection IP65 • For 3-pole and 4-pole breakers							
	Version	**Illumination kit**	**Door interlock**					
	Standard (gray)	Without	With	3VA9157-0FK21	3VA9257-0FK21	3VA9267-0FK21	3VA9467-0FK21	3VA9687-0FK21
		With	With	3VA9157-0FK23	3VA9257-0FK23	3VA9267-0FK23	3VA9467-0FK23	3VA9687-0FK23 new
	EMERGENCY-OFF (red/yellow)	Without	With	3VA9157-0FK25	3VA9257-0FK25	3VA9267-0FK25	3VA9467-0FK25	3VA9687-0FK25
		With	With	3VA9157-0FK27	3VA9257-0FK27	3VA9267-0FK27	3VA9467-0FK27	3VA9687-0FK27 new
Door mounted rotary operators without tolerance compensation								
	• Shaft 300 mm (325 mm for 3VA15/3VA25) • Handle with masking plate 75 × 75 mm (100 × 100 mm for 3VA15/3VA25) • Degree of protection IP65 • For 3-pole and 4-pole breakers							
	Version	**Illumination kit**	**Door interlock**					
	Standard (gray)	Without	With	3VA9157-0FK61	3VA9257-0FK61	3VA9267-0FK61	3VA9467-0FK61	3VA9687-0FK61
Door mounted rotary operators without handle								
	• For IEC • Degree of protection IP30 • For 3-pole and 4-pole breakers							
	Version	**Illumination kit**	**Door interlock**					
	With shaft stub (gray)	–	Without	3VA9157-0GK00	3VA9257-0GK00	3VA9267-0GK00	3VA9467-0GK00	3VA9687-0GK00

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Side wall mounted rotary operators

- Rotary operator with shaft 300 mm
- Handle with masking plate 75 × 75 mm
- Degree of protection IP65
- For 3-pole and 4-pole breakers

Version	Mounting bracket	Illumination kit	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26
Standard (gray)	Without	Without	3VA9157-0PK11	3VA9257-0PK11	3VA9267-0PK11	3VA9467-0PK11	–
		With	3VA9157-0PK13	3VA9257-0PK13	3VA9267-0PK13	3VA9467-0PK13	–
EMERGENCY-OFF (red/yellow)	Without	Without	3VA9157-0PK15	3VA9257-0PK15	3VA9267-0PK15	3VA9467-0PK15	–
		With	3VA9157-0PK17	3VA9257-0PK17	3VA9267-0PK17	3VA9467-0PK17	–

Side wall mounted rotary operators with mounting plates

- Rotary operator with short shaft and mounting plate for mounting directly on the side wall
- Handle with masking plate 75 × 75 mm
- Degree of protection IP65
- For 3-pole and 4-pole breakers

Version	Mounting bracket	Illumination kit	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26
Standard (gray)	With	Without	3VA9157-0PK51	3VA9257-0PK51	3VA9267-0PK51	–	–
		With	3VA9157-0PK53	3VA9257-0PK53	3VA9267-0PK53	–	–
EMERGENCY-OFF (red/yellow)	With	Without	3VA9157-0PK55	3VA9257-0PK55	3VA9267-0PK55	–	–
		With	3VA9157-0PK57	3VA9257-0PK57	3VA9267-0PK57	–	–

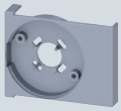
Extended DIN rails for N/PE terminals

Version	Rated current	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26
For mounting plate	≤250 A	3VA9987-0GL30	3VA9987-0GL30	3VA9987-0GL30	–	–

Auxiliary switch modules for rotary operating mechanisms

Version	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26
2× leading to "ON"	3VA9257-0GX10	3VA9257-0GX10	3VA9467-0GX10	3VA9467-0GX10	–
2× leading to "ON" and 1× leading to "OFF"	–	–	3VA9467-0GX20	3VA9467-0GX20	–

Mounting adapters for side wall mounted rotary operators



Version	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26
Necessary accessories for 3VA side wall mounted rotary operators, if 3VA9...-0GX.0 auxiliary switch modules are used	3VA9257-0GX01	3VA9257-0GX01	3VA9467-0GX01	–	–

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Manual operators

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26
Supplementary handles for door mounted rotary operators						
 • For operation when cabinet door is open						
Version						
Standard (gray)		3VA9287-0GC01	3VA9287-0GC01	3VA9487-0GC01	3VA9487-0GC11	3VA9687-0GC01
EMERGENCY-OFF (red/yellow)		3VA9287-0GC05	3VA9287-0GC05	3VA9487-0GC05	3VA9487-0GC15	3VA9687-0GC05
Handles						
 • With masking plate						
Version	**Tolerance compensation**					
Standard (gray)	With		8UD1721-0AB21		8UD1731-0AB21	8UD1741-0AB21
	Without		8UD1721-0AB11		8UD1731-0AB11	8UD1741-0AB11
EMERGENCY-OFF (red/yellow)	With		8UD1721-0AB25		8UD1731-0AB25	8UD1741-0AB25
	Without		8UD1721-0AB15		8UD1731-0AB15	8UD1741-0AB15
Handle extensions						
 • **Note:** The handle extension is already included in the scope of supply of the breakers.						
		–	–	–	3VA9487-0SC10	3VA9987-0SC10
Shafts						
 **Variant**	**Length**					
8 × 8 mm	300 mm		8UD1900-2WA00			–
	600 mm		8UD1900-2WB00			–
12 × 12 mm	300 mm	–	–	–	–	8UD1900-4WA00
	600 mm	–	–	–	–	8UD1900-4WB00
Adapters for shafts						
Variant	**Purpose**					
 8 × 8 mm	With door mounted rotary operator and side wall mounted rotary operator		8UD1900-2DA00			–
 12 × 12 mm	For door mounted rotary operator	–	–	–	–	8UD1900-4DA00
Door couplings						
Variant						
 8 × 8 mm			8UD1900-2HA00			–
 12 × 12 mm		–	–	–	–	8UD1900-4HA00

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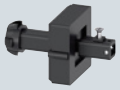
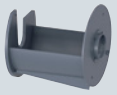
	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26
Mounting tolerance compensations					
Variant					
 8 × 8 mm	8UD1900-2GA00				–
 12 × 12 mm	–	–	–	–	8UD1900-4GA00
Fixing brackets for shafts					
	3VA9287-0GA80		3VA9487-0GA80		3VA9687-0GA80
Variable depth adapters					
Variant					
 8 × 8 mm	3VA9487-0GB10				–

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Manual operators

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

		3VA10 3VA11 3VA12	3VA13 3VA14	3VA15	3VA20 3VA21 3VA22 3VA23 3VA24	3VA25 3VA26
Labeling plates for manual operators						
				3VA9087-0SX10		
Illumination kits for manual operators						
	• 24 V DC voltage					
Version	**Rated current**					
Front rotary operator	100 ... 250 A	8UD1900-0KA10	–	–	–	–
	100 ... 630 A	–	8UD1900-0KA20	–	8UD1900-0KA20	–
	630 ... 1000 A	–	–	8UD1900-0KA30	–	8UD1900-0KA30
Door mounted rotary operator and side wall mounted rotary operator	100 ... 630 A	8UD1900-0KA20	8UD1900-0KA20	8UD1900-0KA20	8UD1900-0KA20	–
	630 ... 1000 A	–	–	–	–	8UD1900-0KA30
Cylinder locks (type Kaba), standard masking plates						
						
Purpose	**Key**					
For door mounted rotary operator and side wall mounted rotary operator (in the masking plate)	1	8UD1900-0MB01	8UD1900-0MB01	–	8UD1900-0MB01	–
	2	8UD1900-0NB01	8UD1900-0NB01	–	8UD1900-0NB01	–
	3	8UD1900-0PB01	8UD1900-0PB01	–	8UD1900-0PB01	–
	4	8UD1900-0QB01	8UD1900-0QB01	–	8UD1900-0QB01	–
Cylinder locks (type Kaba), EMERGENCY-OFF masking plates						
						
Purpose	**Key**					
For door mounted rotary operator and side wall mounted rotary operator (in the masking plate)	1	8UD1900-0MB05	8UD1900-0MB05	–	8UD1900-0MB05	–
	2	8UD1900-0NB05	8UD1900-0NB05	–	8UD1900-0NB05	–
	3	8UD1900-0PB05	8UD1900-0PB05	–	8UD1900-0PB05	–
	4	8UD1900-0QB05	8UD1900-0QB05	–	8UD1900-0QB05	–
Cylinder locks (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 • Note: The cylinder lock adapter for rotary operators is also needed for locking or interlocking circuit breakers via rotary operators					
Key						
1				3VA9980-0VL10		
3				3VA9980-0VL30		
4				3VA9980-0VL40		
Cylinder lock adapters 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)					
Rated current						
100 ... 630 A		3VA9980-0LF20	3VA9980-0LF20	–	3VA9980-0LF20	–
1000 A		–	–	3VA9680-0LF20	–	3VA9680-0LF20

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Motor operators

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

Side mounted motor operators (MO310)

- Cover size 45 mm

Addressable via control signals	Isolating features in accordance with IEC/EN 60947-1	Make time, typically for 3VA1	Make time, typically for 3VA2	Break time, typically for 3VA1	Break time, typically for 3VA2	Rated operational power
■	■	<300 ms	–	<300 ms	–	250 W, max. 500 W (60 ms)

Motor operators without stored energy operators (MO320)

Addressable via control signals	Isolating features in accordance with IEC/EN 60947-1	Make time, typically for 3VA1	Make time, typically for 3VA2	Break time, typically for 3VA1	Break time, typically for 3VA2	Rated operational power
■	■	<800 ms (160 A, 250A)	<1000 ms (250 A), <1700 ms (630 A)	<800 ms (160 A, 250A)	<1000 ms (250 A), <1400 ms (630 A)	250 W, max. 500 W (60 ms)

Motor operators with stored energy operators (SEO520)

- Synchronizable remote operating mechanism with optional communication link
- 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 connection with the COM060 communication module, via a plug-in connection, integrates the SEO520 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 SENTRON powerconfig and SENTRON powermanager software packages.
- **Note:** On account of the fast switching times, the SEO520 cannot be used with a leading changeover switch LCS.

Addressable via control signals	Isolating features in accordance with IEC/EN 60947-1	Make time, typically for 3VA1	Make time, typically for 3VA2	Break time, typically for 3VA1	Break time, typically for 3VA2	Rated operational power
■	■	–	<80 ms	–	<80 ms	300 W, max. 500 W (60 ms)

Mechanical operating cycles counters (for installation in the SEO520)

Mounting	Article No.
For installation in the SEO520	3VA9987-0HX10

Cylinder lock adapters for SEO520

Mounting	Article No.
For installation of cylinder locks in the SEO520	3VA9980-0LF30

Cylinder locks (type RONIS)

- Includes a lock with 2 keys
- For locking the operating mode (Manual/Auto/Lock) of the SEO520

Key	Article No.
1	3VA9980-0VL10
3	3VA9980-0VL30
4	3VA9980-0VL40

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		3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24
Rated control supply voltage	**With communication**				
42 ... 60 V AC, 24 ... 60 V DC	–	3VA9117-0HB10	–	–	–
110 ... 230 V AC, 110 ... 250 V DC	–	3VA9117-0HB20	–	–	–
Rated control supply voltage	**With communication**				
24 ... 60 V DC	–	3VA9157-0HA10	3VA9257-0HA10	3VA9267-0HA10	3VA9467-0HA10
110 ... 230 V AC, 110 ... 250 V DC	–	3VA9157-0HA20	3VA9257-0HA20	3VA9267-0HA20	3VA9467-0HA20
Rated control supply voltage	**With communication**				
24 V DC	–	–	–	3VA9267-0HC10	–
42 ... 60 V AC/DC	–	–	–	3VA9267-0HC20	–
110 ... 230 V AC, 110 ... 250 V DC	–	–	–	3VA9267-0HC30	–
24 V DC	Yes	–	–	3VA9267-0HC15	–
110 ... 230 V AC, 110 ... 250 V DC	Yes	–	–	3VA9267-0HC35	–

Reset mode

All motor operators have the following reset modes:
Reset mode 1: Automatic reset
Reset mode 2: Reset via OFF-signal

The motor operator with SEO520 stored energy operator additionally has:
Reset mode 3: Reset via OFF-signal with additional acknowledge signal

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Connection technology

❶ For mounting onto the circuit breaker
❷ For mounting onto draw-out and plug-in units

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	Connection options		Scope of supply			3VA10 3VA11
Box terminals						
	❶	❷	3 single terminals	Copper stranded 1.5 … 70 mm²		3VA9153-0JA11
				6 … 120 mm²		–
				25 … 185 mm²		–
				50 … 185 mm²		–
				35 … 300 mm²		–
	❶	❷	4 single terminals	1.5 … 70 mm²		3VA9154-0JA11
				6 … 120 mm²		–
				25 … 185 mm²		–
				50 … 185 mm²		–
				35 … 300 mm²		–
Nut keeper kits						
	Connection options		Scope of supply	Max. tap width	Max. tap thickness	
	❶	❷	3 single terminals	17 mm	6.5 mm	3VA9113-0QA00
				25 mm	8 mm	–
				35 mm	10 mm	–
			Nut keeper kit for 3-pole breakers, 1 terminal cover	50 mm	25 mm	–
	❶	❷	4 single terminals	17 mm	6.5 mm	3VA9114-0QA00
				25 mm	8 mm	–
				35 mm	10 mm	–
			Nut keeper kit for 4-pole breakers, 1 terminal cover	50 mm	28 mm	–
Circular conductor terminals, 1 cable						
	Connection options		Scope of supply	Copper/aluminum stranded		
	❶	❷	3 single terminals	1.5 … 10 mm²		3VA9113-0JB10
				1.5 … 50 mm²		–
				10 … 95 mm²		3VA9113-0JB11
				16 … 185 mm²		–
				35 … 185 mm²		–
				50 … 300 mm²		–
	❶	❷	4 single terminals	1.5 … 10 mm²		3VA9114-0JB10
				1.5 … 50 mm²		–
				10 … 95 mm²		3VA9114-0JB11
				16 … 185 mm²		–
				35 … 185 mm²		–
				50 … 300 mm²		–

[1] Maximum current-carrying capacity of cable connection 400 A
Flexible copper bar: No restrictions
[2] Maximum current-carrying capacity of copper cables 380 A
Maximum current-carrying capacity of aluminum cables 310 A

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3VA12	3VA20 3VA21	3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25
–	–	–	–	–
3VA9253-0JA11	3VA9163-0JA12	3VA9163-0JA12	–	–
–	3VA9263-0JA12	3VA9263-0JA12	–	–
3VA9253-0JA12	–	–	–	–
–	–	–	3VA9483-0JA13 [1]	–
–	–	–	–	–
3VA9254-0JA11	3VA9164-0JA12	3VA9164-0JA12	–	–
–	3VA9264-0JA12	3VA9264-0JA12	–	–
3VA9254-0JA12	–	–	–	–
–	–	–	3VA9484-0JA13 [1]	–
–	–	–	–	–
3VA9213-0QA00	3VA9203-0QA00	3VA9203-0QA00	–	–
–	–	–	3VA9403-0QA00	–
–	–	–	–	3VA9603-0QA00
–	–	–	–	–
3VA9214-0QA00	3VA9204-0QA00	3VA9204-0QA00	–	–
–	–	–	3VA9404-0QA00	–
–	–	–	–	3VA9604-0QA00
–	–	–	–	–
–	3VA9103-0JB11	–	–	–
–	–	–	–	–
–	–	3VA9263-0JB12	–	–
3VA9253-0JB12	–	–	–	–
–	–	–	3VA9383-0JB13 [2]	–
–	–	–	–	–
–	3VA9104-0JB11	–	–	–
–	–	–	–	–
–	–	3VA9264-0JB12	–	–
3VA9254-0JB12	–	–	–	–
–	–	–	3VA9384-0JB13 [2]	–

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Connection technology

❶ For mounting onto the circuit breaker
❷ For mounting onto draw-out and plug-in units

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					3VA10 3VA11
Circular conductor terminals with auxiliary conductor terminals, 1 cable [2]					
	Connection options		**Scope of supply**	**Copper / aluminum stranded**	
	❶	❷	3 single terminals	1.5 … 10 mm²	3VA9113-0JG10
				1.5 … 50 mm²	–
				10 … 95 mm²	3VA9113-0JG11
				16 … 185 mm²	–
				50 … 185 mm²	–
				50 … 300 mm²	–
	❶	❷	4 single terminals	1.5 … 10 mm²	3VA9114-0JG10
				1.5 … 50 mm²	–
				10 … 95 mm²	3VA9114-0JG11
				16 … 185 mm²	–
				50 … 185 mm²	–
				50 … 300 mm²	–
Circular conductor terminals, 2 cables					
	Connection options		**Scope of supply**	**Copper / aluminum stranded**	**Aux. conductor terminal**
	❶	❷	3 single terminals, 1 short terminal cover	120 … 300 mm²	No –
					Yes [2] –
	❶	❷	4 single terminals, 1 short terminal cover	120 … 300 mm²	No –
					Yes [2] –
Circular conductor terminals, 3 cables					
	Connection options		**Scope of supply**	**Copper / aluminum stranded**	**Aux. conductor terminal**
	❶	❷	3 single terminals, 1 short terminal cover	120 … 185 mm²	No –
					Yes [2] –
	❶	❷	4 single terminals, 1 short terminal cover	120 … 185 mm²	No –
					Yes [2] –
Auxiliary conductor terminals for box terminals [2]					
	**Version**				
	Fixed-mounted				3VA9110-0WB00
	Plug-in and draw-out technology				3VA9150-0WB00
Auxiliary conductor terminals for busbars [2]					
	**Version**				
	Fixed-mounted				3VA9110-0WC00
	Plug-in and draw-out technology				3VA9150-0WC00

[1] Maximum current-carrying capacity of copper cables 380 A
Maximum current-carrying capacity of aluminum cables 310 A
[2] Maximum current-carrying capacity 15 A
Maximum cable connection up to 2.5 mm²

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3VA12	3VA20 3VA21	3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25
–	–	–	–	–
–	3VA9103-0JG11	–	–	–
–	–	–	–	–
–	–	3VA9263-0JG12	–	–
3VA9253-0JG12	–	–	–	–
–	–	–	3VA9383-0JG13 [1]	–
–	3VA9104-0JG11	–	–	–
–	–	–	–	–
–	–	3VA9264-0JG12	–	–
3VA9254-0JG12	–	–	–	–
–	–	–	3VA9384-0JG13 [1]	–
–	–	–	–	3VA9503-0JB23
–	–	–	–	3VA9503-0JG23
–	–	–	–	3VA9504-0JB23
–	–	–	–	3VA9504-0JG23
–	–	–	–	3VA9503-0JB32
–	–	–	–	3VA9503-0JG32
–	–	–	–	3VA9504-0JB32
–	–	–	–	3VA9504-0JG32
3VA9200-0WB00	3VA9200-0WB00	3VA9200-0WB00	3VA9480-0WB00	–
3VA9280-0WB00	3VA9280-0WB00	3VA9280-0WB00	3VA9480-0WB00	–
3VA9200-0WC00	3VA9200-0WC00	3VA9200-0WC00	3VA9480-0WC00	–
3VA9280-0WC00	3VA9280-0WC00	3VA9280-0WC00	3VA9480-0WC00	–

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Connection technology

❶ For mounting onto the circuit breaker
❷ For mounting onto draw-out and plug-in units

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

Note:
All bus connectors extended and rear connections are Cu/Sn 6 r plated according to ISO 2093

Front bus connectors extended

	Number of poles	Connection options		Scope of supply	Max. tap width	Max. tap thickness
	1P	❶	–	1 busbar connection piece	22 mm	8 mm
	3P	❶	❷	3 single terminals, 2 phase barriers	22 mm	8 mm
					32 mm	10 mm
					40 mm	12.5 mm
					50 mm	28 mm
	4P	❶	❷	4 single terminals, 3 phase barriers	22 mm	8 mm
					32 mm	10 mm
					40 mm	12.5 mm
					50 mm	28 mm

Front bus connectors offset

- Distance between pole centers:
  - 100/160 A = 35 mm
  - 250 A = 45 mm
  - 400/630 A = 70 mm

	Number of poles	Connection options		Scope of supply	Max. tap width	Max. tap thickness
	3P	❶	❷	3 single terminals, 2 phase barriers	30 mm	8 mm
					35 mm	10 mm
					60 mm	12.5 mm
					80 mm	10 mm
	4P	❶	❷	4 single terminals, 3 phase barriers	30 mm	8 mm
					35 mm	10 mm
					60 mm	12.5 mm
					80 mm	10 mm

Bus connectors edgewise

	Number of poles	Connection options		Scope of supply	Max. tap width	Max. tap thickness
	3P	❶	❷	3 single terminals, 2 phase barriers	20 mm	6 mm
					25 mm	7 mm
					40 mm	8 mm
	4P	❶	❷	4 single terminals, 3 phase barriers	20 mm	6 mm
					25 mm	7 mm
					40 mm	8 mm

Nut keeper units, right-angled [1)]

	Number of poles	Connection options		Scope of supply	Max. tap width	Max. tap thickness
	3P	❶	❷	3 single terminals, 2 phase barriers	22 mm	8 mm
					32 mm	10 mm
					40 mm	12.5 mm
	4P	❶	❷	4 single terminals, 3 phase barriers	22 mm	8 mm
					32 mm	10 mm
					40 mm	12.5 mm

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

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3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25
3VA9151-0QB00	–	–	–	–
3VA9153-0QB00	–	–	–	–
–	3VA9253-0QB00	3VA9263-0QB00	–	–
–	–	–	3VA9483-0QB00	–
–	–	–	–	3VA9603-0QB00
3VA9154-0QB00	–	–	–	–
–	3VA9254-0QB00	3VA9264-0QB00	–	–
–	–	–	3VA9484-0QB00	–
–	–	–	–	3VA9604-0QB00
3VA9153-0QC00	–	–	–	–
–	3VA9253-0QC00	3VA9263-0QC00	–	–
–	–	–	3VA9483-0QC00	–
–	–	–	–	3VA9603-0QC00 new
3VA9154-0QC00	–	–	–	–
–	3VA9254-0QC00	3VA9264-0QC00	–	–
–	–	–	3VA9484-0QC00	–
–	–	–	–	3VA9604-0QC00 new
3VA9153-0QD00	–	–	–	–
–	3VA9253-0QD00	3VA9263-0QD00	–	–
–	–	–	3VA9483-0QD00	–
3VA9154-0QD00	–	–	–	–
–	3VA9254-0QD00	3VA9264-0QD00	–	–
–	–	–	3VA9484-0QD00	–
3VA9113-0QG00	–	–	–	–
–	3VA9213-0QG00	3VA9223-0QG00	–	–
–	–	–	3VA9403-0QG00	–
3VA9114-0QG00	–	–	–	–
–	3VA9214-0QG00	3VA9224-0QG00	–	–
–	–	–	3VA9404-0QG00	–

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Connection technology

❶ For mounting onto the circuit breaker
❷ For mounting onto draw-out and plug-in units

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Note:
All bus connectors extended and rear connections are Cu/Sn 6 r plated according to ISO 2093

Rear connection studs flat

	Number of poles	Connection options		Scope of supply
	1P	❶	❷	1 short connection stud flat
				1 long connection stud flat
	3P	❶	❷	2 short connection studs flat, 1 long connection stud flat
	4P	❶	❷	2 short connection studs flat, 2 long connection studs flat

Rear connection studs round

	Number of poles	Connection options		Scope of supply
	1P	❶	❷	1 short connection stud round
				1 long connection stud round
	3P	❶	❷	1 long connection stud round, 2 short connection studs round
	4P	❶	❷	2 long connection studs round, 2 short connection studs round

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

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3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24
3VA9111-0QE10	3VA9211-0QE10	3VA9201-0QE10	3VA9401-0QE10
3VA9111-0QE20	3VA9211-0QE20	3VA9201-0QE20	3VA9401-0QE20
3VA9113-0QE00	3VA9213-0QE00	3VA9203-0QE00	3VA9403-0QE00
3VA9114-0QE00	3VA9214-0QE00	3VA9204-0QE00	3VA9404-0QE00
3VA9111-0QF10	3VA9211-0QF10	3VA9201-0QF10	3VA9401-0QF10
3VA9111-0QF20	3VA9211-0QF20	3VA9201-0QF20	3VA9401-0QF20
3VA9113-0QF00	3VA9213-0QF00	3VA9203-0QF00	3VA9403-0QF00
3VA9114-0QF00	3VA9214-0QF00	3VA9204-0QF00	3VA9404-0QF00

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Connection technology

❶ For mounting onto the circuit breaker
❷ For mounting onto draw-out and plug-in units

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

Note:
All bus connectors extended and rear connections are Cu/Sn 6 r plated according to ISO 2093

Circular conductor terminals, 2P

Connection options		Scope of supply	Number of cables	Copper/aluminum stranded	Aux. conductor terminal
❶	–	2 single terminals, 1 extended terminal cover, 1 insulation plate	1	25 … 150 mm²	Yes [1]
					No
			6	1.5 … 35 mm²	No

Circular conductor terminals, 3P

Connection options		Scope of supply	Number of cables	Copper/aluminum stranded	Aux. conductor terminal
❶	–	3 single terminals, 1 extended terminal cover, 1 insulation plate	1	25 … 150 mm²	Yes [1]
					No
				50 … 240 mm²	Yes [1]
					No
			2	25 … 150 mm²	Yes [1]
					No
				70 … 300 mm²	Yes [1]
					No
			4	120 … 240 mm²	Yes [1]
					No
				120 … 300 mm² new	Yes [1]
					No
			6	1.5 … 35 mm²	No
–	❷	3 single terminals, 1 extended terminal cover, 1 insulation plate	1	25 … 150 mm²	Yes [1]
				50 … 240 mm²	Yes [1]
			2	25 … 150 mm²	Yes [1]
				70 … 300 mm²	Yes [1]
			6	1.5 … 35 mm²	No

Circular conductor terminals, 4P

Connection options		Scope of supply	Number of cables	Copper/aluminum stranded	Aux. conductor terminal
❶	–	4 single terminals, 1 extended terminal cover, 1 insulation plate	1	25 … 150 mm²	Yes [1]
					No
				50 … 240 mm²	Yes [1]
					No
			2	25 … 150 mm²	Yes [1]
					No
				70 … 300 mm²	Yes [1]
					No
			4	120 … 240 mm²	Yes [1]
					No
				120 … 300 mm² new	Yes [1]
					No
			6	1.5 … 35 mm²	No
–	❷	4 single terminals, 1 extended terminal cover, 1 insulation plate	1	25 … 150 mm²	Yes [1]
				50 … 240 mm²	Yes [1]
			2	25 … 150 mm²	Yes [1]
				70 … 300 mm²	Yes [1]
			6	1.5 … 35 mm²	No

[1] Maximum current-carrying capacity 15 A
Maximum cable connection up to 2.5 mm²

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3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25
3VA9112-0JC12	–	–	–	–
3VA9112-0JJ12	–	–	–	–
3VA9112-0JF60	–	–	–	–
3VA9113-0JC12	–	–	–	–
3VA9113-0JJ12	–	–	–	–
–	3VA9213-0JC13	3VA9223-0JC13	–	–
–	3VA9213-0JJ13	3VA9223-0JJ13	–	–
–	3VA9213-0JC22	3VA9223-0JC22	–	–
–	3VA9213-0JJ22	3VA9223-0JJ22	–	–
–	–	–	3VA9403-0JC23	–
–	–	–	3VA9403-0JJ23	–
–	–	–	–	3VA9603-0JC43
–	–	–	–	3VA9603-0JJ43
–	–	–	–	3VA9603-0JC44
–	–	–	–	3VA9603-0JJ44
3VA9113-0JF60	3VA9213-0JF60	3VA9223-0JF60	3VA9303-0JF60	–
3VA9153-0JC12	–	–	–	–
–	3VA9253-0JC13	3VA9263-0JC13	–	–
–	3VA9253-0JC22	3VA9263-0JC22	–	–
–	–	–	3VA9483-0JC23	–
3VA9153-0JF60	3VA9253-0JF60	3VA9263-0JF60	3VA9383-0JF60	–
3VA9114-0JC12	–	–	–	–
3VA9114-0JJ12	–	–	–	–
–	3VA9214-0JC13	3VA9224-0JC13	–	–
–	3VA9214-0JJ13	3VA9224-0JJ13	–	–
–	3VA9214-0JC22	3VA9224-0JC22	–	–
–	3VA9214-0JJ22	3VA9224-0JJ22	–	–
–	–	–	3VA9404-0JC23	–
–	–	–	3VA9404-0JJ23	–
–	–	–	–	3VA9604-0JC43
–	–	–	–	3VA9604-0JJ43
–	–	–	–	3VA9604-0JC44
–	–	–	–	3VA9604-0JJ44
3VA9114-0JF60	3VA9214-0JF60	3VA9224-0JF60	3VA9304-0JF60	–
3VA9154-0JC12	–	–	–	–
–	3VA9254-0JC13	3VA9264-0JC13	–	–
–	3VA9254-0JC22	3VA9264-0JC22	–	–
–	–	–	3VA9484-0JC23	–
3VA9154-0JF60	3VA9254-0JF60	3VA9264-0JF60	3VA9384-0JF60	–

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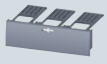
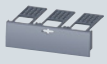
Connection technology

❶ For mounting onto the circuit breaker
❷ For mounting onto draw-out and plug-in units

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

					3VA10	3VA11
Terminal covers specially for fixed mounting						
	Version	**Number of poles**	**Mounting location**			
	Short	1P	❶	–	3VA9111-0WD10	3VA9111-0WD10
		2P	❶	–	3VA9111-0WD20	3VA9111-0WD20
		3P	❶	–	3VA9111-0WD30	3VA9111-0WD30
		4P	❶	–	3VA9111-0WD40	3VA9111-0WD40
	Long new	3P	❶	–	–	–
		4P	❶	–	–	–
						
	Extended [1]	2P	❶	–	3VA9111-0WF20	3VA9111-0WF20
		3P	❶	–	3VA9111-0WF30	3VA9111-0WF30
		4P	❶	–	3VA9111-0WF40	3VA9111-0WF40
	Broadened [1]	3P	❶	–	3VA9111-0WG30	3VA9111-0WG30
		4P	❶	–	3VA9111-0WG40	3VA9111-0WG40
Terminal covers specially for plug-in and draw-out units (spare part)						
	• To provide circuit breaker touch protection • For mounting to the molded case circuit breaker • Included in scope of supply: Cover for the infeed and outgoing terminal					
	**Version**	**Number of poles**	**Mounting location**			
	Short	3P	❶	–	3VA9113-0KB01	3VA9113-0KB01
		4P	❶	–	3VA9114-0KB01	3VA9114-0KB01
Terminal covers for plug-in or draw-out sockets						
	• For touch protection in the termination area of the plug-in or draw-out socket • For mounting onto the plug-in or draw-out socket					
	Version	**Number of poles**	**Mounting location**			
	Short	3P	–	❷	–	3VA9153-0KB03
		4P	–	❷	–	3VA9154-0KB03
						
	Extended [1]	3P	–	❷	–	3VA9153-0KB04
			–	❷	–	3VA9154-0KB04
	Broadened [1]	3P	–	❷	–	3VA9153-0KB05
		4P	–	❷	–	3VA9154-0KB05

[1] Including insulating plate
[2] Suitable for circular conductor terminals 2/4 cables

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3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25
–	–	–	–
–	–	–	–
3VA9211-0WD30	3VA9221-0WD30	3VA9481-0WD30	3VA9601-0WD30
3VA9211-0WD40	3VA9221-0WD40	3VA9481-0WD40	3VA9601-0WD40
–	–	–	3VA9601-0WF30
–	–	–	3VA9601-0WF40
–	–	–	–
3VA9211-0WF30	3VA9221-0WF30	3VA9481-0WF30	3VA9601-0WE30 [2] new
3VA9211-0WF40	3VA9221-0WF40	3VA9481-0WF40	3VA9601-0WE40 [2] new
3VA9211-0WG30	3VA9221-0WG30	3VA9401-0WG30	–
3VA9211-0WG40	3VA9221-0WG40	3VA9401-0WG40	–
3VA9213-0KB01	3VA9123-0KB01	3VA9353-0KB01	–
3VA9214-0KB01	3VA9124-0KB01	3VA9354-0KB01	–
3VA9253-0KB03	3VA9163-0KB03	3VA9353-0KB03	–
3VA9254-0KB03	3VA9164-0KB03	3VA9354-0KB03	–
3VA9253-0KB04	3VA9163-0KB04	3VA9353-0KB04	–
3VA9254-0KB04	3VA9164-0KB04	3VA9354-0KB04	–
3VA9253-0KB05	3VA9163-0KB05	3VA9353-0KB05	–
3VA9254-0KB05	3VA9164-0KB05	3VA9354-0KB05	–

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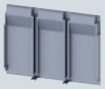
Connection technology

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

Insulating plates



Version	Number of poles	Mounting location		3VA10	3VA11
Standard	2P	1	–	3VA9111-0WJ20	3VA9111-0WJ20
	3P	1	–	3VA9111-0WJ30	3VA9111-0WJ30
	4P	1	–	3VA9111-0WJ40	3VA9111-0WJ40
Broadened	3P	1	–	3VA9111-0WK30	3VA9111-0WK30
	4P	1	–	3VA9111-0WK40	3VA9111-0WK40

Phase barriers (fixed mounting, plug-in and draw-out units)

Scope of supply	3VA10 / 3VA11
2 phase barriers	3VA9152-0WA00

DC insulation plates for 3VA1 for fixed-mounted molded case circuit breakers

Number of poles	3VA10 / 3VA11
3P	3VA9113-0SG10
4P	3VA9114-0SG10

Side plates for 3VA1 for fixed-mounted molded case circuit breakers

Number of poles	Mounting	3VA10 / 3VA11
2P	On 2-pole molded case circuit breakers	3VA9112-0SG20

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3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	3VA26
–	–	–	–	–
3VA9211-0WJ30	3VA9221-0WJ30	3VA9481-0WJ30	–	–
3VA9211-0WJ40	3VA9221-0WJ40	3VA9481-0WJ40	–	–
3VA9211-0WK30	3VA9221-0WK30	3VA9481-0WK30	–	–
3VA9211-0WK40	3VA9221-0WK40	3VA9481-0WK40	–	–
3VA9252-0WA00	3VA9262-0WA00	3VA9482-0WA00	3VA9602-0WA00	3VA9602-0WA00
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–

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Plug-in and draw-out technology

Thanks to plug-in and draw-out technology:

- Molded case circuit breakers can be replaced quickly and easily for overhauls or servicing
- Electrical isolation and clearly visible isolating distance
- The 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

In addition, draw-out technology offers:

- Transmission of the position of the molded case circuit breaker via communication (CONNECT, TEST, DISCONNECT)
- The ability to test the auxiliary and control circuit connections in the test position of the draw-out unit, without contacted main current paths
- Transmission of the state of the molded case circuit breaker (ON, OFF, TRIP) via the COM060 communication module

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

		3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24
Draw-out units, complete kits					
	• Scope of supply: – Draw-out socket – Conversion kit – Mounting screw kit • **Note:** The crank handle for the draw-out unit must be ordered separately.				
	Number of poles				
	3P	–	3VA9213-0KD00	3VA9123-0KD00	3VA9323-0KD00
	4P	–	3VA9214-0KD00	3VA9124-0KD00	3VA9324-0KD00
Draw-out units, conversion kits					
	• Scope of supply: – Screw-fastened terminal covers for molded case circuit breakers – Side panels – Plug-in contacts – Cable cages – Autotrip plunger • **Note:** The crank handle for the draw-out unit must be ordered separately.				
	Number of poles				
	3P	–	3VA9213-0KD10	3VA9123-0KD10	3VA9323-0KD10
	4P	–	3VA9214-0KD10	3VA9124-0KD10	3VA9324-0KD10
Plug-in units, complete kits					
	• Scope of supply: – Plug-in base – Conversion kit – Mounting screw kit				
	Number of poles				
	3P	3VA9113-0KP00	3VA9213-0KP00	3VA9123-0KP00	3VA9323-0KP00
	4P	3VA9114-0KP00	3VA9214-0KP00	3VA9124-0KP00	3VA9324-0KP00
Plug-in units, conversion kits					
	• Scope of supply: – Screw-fastened terminal covers for molded case circuit breakers – Plug-in contacts – Cable cages – Autotrip plunger				
	Number of poles				
	3P	3VA9113-0KP10	3VA9213-0KP10	3VA9123-0KP10	3VA9323-0KP10
	4P	3VA9114-0KP10	3VA9214-0KP10	3VA9124-0KP10	3VA9324-0KP10

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	3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24
Cable cages for plug-in/draw-out units (spare part)				
 • For routing of the required cables from the internal accessories on the back of the circuit breaker				
Number of poles				
3P/4P	3VA9157-0KB02	3VA9257-0KB02	3VA9167-0KB02	3VA9367-0KB02
Door feedthroughs				
	–	3VA9257-0KT00	3VA9167-0KT00	3VA9367-0KT00
Autotrip plungers (spare part)				
 **Version**				
Plug-in unit	3VA9157-0KP81	3VA9257-0KP81	3VA9267-0KP81	3VA9457-0KP81
Draw-out unit	–	3VA9257-0KD81	3VA9267-0KD81	3VA9457-0KD81

Accessories

Communication links for draw-out unit

Scope of supply	Article No.
Set of cables with three special position signaling switches, 3VA9987-0KC10 connecting cables	3VA9987-0KC00

Position signaling switches for draw-out unit and plug-in unit

	Article No.
	3VA9987-0KB00

Connecting cables

Purpose	Article No.
Connection of position signaling switches for communication with COM060	3VA9987-0KC10

Crank handles for draw-out units

Version	Scope of supply	Article No.
Insulated	Including crank handle holder	3VA9987-0KD81

Auxiliary circuit connectors

- Each auxiliary circuit connector is designed for 4 cables.

Version	Article No.
For all draw-out units	3VA9987-0KD80
For all plug-in units	3VA9987-0KP80

Cylinder locks

- Scope of supply:
  – 1 lock with 2 keys
- For locking or interlocking
- **Note:** Not for 3VA15/3VA25!

Key	Lock number	Article No.
1	1	3VA9980-0VL10
3	3	3VA9980-0VL30
4	4	3VA9980-0VL40

Cylinder lock adapters for draw-out units

- 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

Purpose	Article No.
For fitting a cylinder lock in the right-hand side wall of the draw-out unit	3VA9980-0LF40

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Residual current devices RCD

According to IEC 60947-2 Annex B (Type A, Type B) and according to DIN VDE 0664-400 (Type B+)

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

Residual current devices (RCD) for switch disconnectors and molded case circuit breakers

- Mounted onto the side (left)

Number of poles	Type	Sensitivity [3]	Rated residual response current $I_{\Delta n}$	Limit value of non-tripping time Δt	Rated voltage U_e	Fault current frequency	Pre-alarm			Tripped signal		
								NC / NO	COM	TRIP	NC / NO	COM
3-pole	RCD510	Type A	0.03 ... 5 A.	0 ... 3 s	127 ... 480 V AC	50/60 Hz	1	–	–	■	■	–
4-pole	RCD310	Type A	0.03 ... 5 A.	Instantaneous	127 ... 480 V AC	50/60 Hz	1	–	–	■	■	–
	RCD510	Type A	0.03 ... 5 A.	0 ... 3 s	127 ... 480 V AC	50/60 Hz	1	–	–	■	■	–

Residual current devices (RCD) for molded case circuit breakers

- Mounted below (under trip unit)

Number of poles	Type	Sensitivity [3]	Rated residual response current $I_{\Delta n}$	Limit value of non-tripping time Δt	Rated voltage U_e	Fault current frequency	Pre-alarm			Tripped signal		
								NC / NO	COM	TRIP	NC / NO	COM
3-pole	RCD520	Type A	0.03 ... 5 A.	0 ... 3 s	127 ... 480 V AC	50/60 Hz	1	–	–	■	■	–
	RCD520B [1][4]	Type B	0.03 ... 5 A.	0 ... 10 s	127 ... 690 V AC	0 ... 100 kHz	1	■	–	■	■	–
		Type B+	0.03 ... 0.3 A.									
	RCD820 [2]	Type A	0.03 ... 30 A [5]	0 ... 10 s	127 ... 690 V AC	50/60 Hz	2	■	■	■	■	■
4-pole	RCD320	Type A	0.03 ... 5 A.	Instantaneous	127 ... 480 V AC	50/60 Hz	1	–	–	■	■	–
	RCD520	Type A	0.03 ... 5 A.	0 ... 3 s	127 ... 480 V AC	50/60 Hz	1	–	–	■	■	–
	RCD520B [4]	Type B	0.03 ... 5 A.	0 ... 10 s	127 ... 690 V AC	0 ... 100 kHz	1	■	–	■	■	–
		Type B+	0.03 ... 0.3 A.									
	RCD820 [2]	Type A	0.03 ... 30 A [5]	0 ... 10 s	127 ... 690 V AC	50/60 Hz	2	■	■	■	■	■

Residual current releases (spare part)

Version	Scope of supply
For RCD310 or RCD510	RCR, RCR-RCD cables

[1] 3-pole version in 4-pole enclosure
[2] With energy infeed from below, the required auxiliary switch (AUX) must be ordered separately
[3] Type A: pulse current sensitive, type B/B+: universal current sensitive
[4] Sensitivity selectable for type B/B+
[5] $I_{\Delta n}$ = 30A: type AC
[6] 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.
[7] 1 set of box terminals is included in scope of supply of the RCD510 (3VA921.-0RS20).

Modular residual current devices type A/B (according to IEC 60947-2 Annex M)
See monitoring devices, page 11/1

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			3VA11	3VA12	3VA20 3VA21	3VA22	3VA23	3VA24
Monitoring mode (tripping can be disabled as an option)	**Remote test/ remote reset**	**Communication-capable**						
■	–	–	3VA9113-0RS20 [6]	3VA9213-0RS20 [7]	–	–	–	–
■	–	–	3VA9114-0RS10 [6]	–	–	–	–	–
■	–	–	3VA9114-0RS20 [6]	3VA9214-0RS20 [7]	–	–	–	–

Monitoring mode (tripping can be disabled as an option)	**Remote test/ remote reset**	**Communication-capable**						
–	–	–	3VA9113-0RL20	3VA9213-0RL20	–	–	–	–
■	–	–	3VA9113-0RL21	–	–	–	–	–
■	■	■	–	–	3VA9123-0RL30	3VA9223-0RL30	3VA9323-0RL30	3VA9423-0RL30
–	–	–	3VA9114-0RL10	–	–	–	–	–
–	–	–	3VA9114-0RL20	3VA9214-0RL20	–	–	–	–
■	–	–	3VA9114-0RL21	–	–	–	–	–
■	■	■	–	–	3VA9124-0RL30	3VA9224-0RL30	3VA9324-0RL30	3VA9424-0RL30
			3VA9988-0BR10	3VA9988-0BR10	–	–	–	–

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Communication

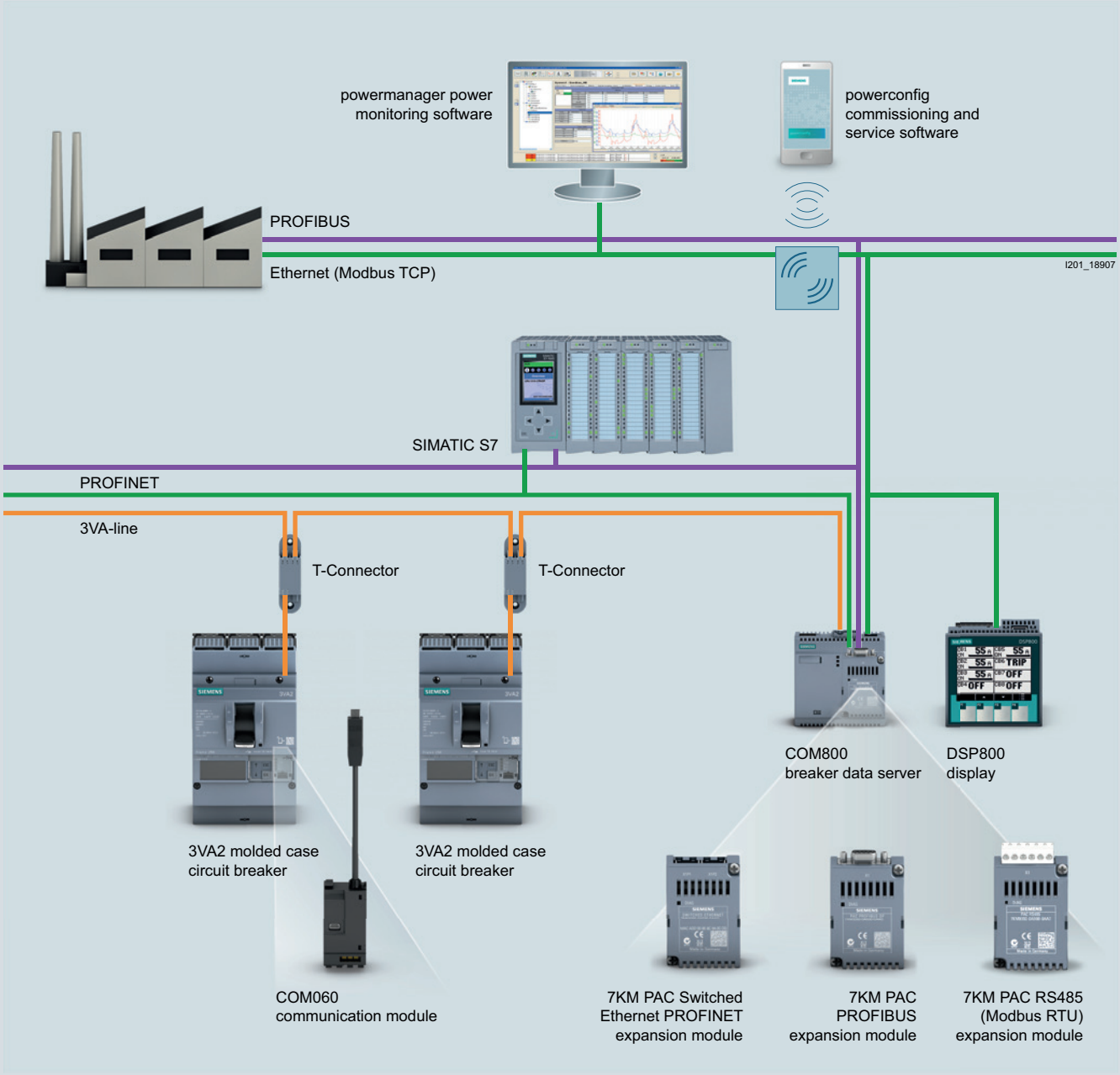
Metering function [1]			ETU 5-series	ETU 8-series	Display in ETU	Display DSP800	Communication COM800/COM100
Current							
Phase and neutral conductor currents	I_1, I_2, I_3, I_N	A	■	■	□	□	■
Residual current to ground	I_g	A	■	■	□	□	■
Phase with highest load		A	■	■	□	□	■
Mean value over the three phase currents	$I_{leading\ axis} = (I_1 + I_2 + I_3)/3$	A	–	■	–	□	■
Asymmetry of the phase currents	I_{nba}	%	–	■	–	□	■
THD of the 3 phases	$THDI_1$, $THDI_2$, $THDI_3$	%	–	■	–	□	■
Voltage							
Phase voltages incl. mean value	U_{12}, U_{23}, U_{31}, U_{phavg}	V	–	■	□	□	■
Voltages to N conductor incl. mean value	U_{1N}, U_{2N}, U_{3N}, U_{Navg}	V	–	■	–	□	■
Voltage unbalance		%	–	■	–	□	■
THD phase/phase and phase/N	$THDI_1$, $THDI_2$, $THDI_3$	%	–	■	–	□	■
Power							
Active power, total and per phase	P_1, P_2, P_3, P_{tot}	kW	–	■	□ (P_{tot})	□	■
Apparent power, total and per phase	S_1, S_2, S_3, S_{tot}	kVA	–	■	–	□	■
Reactive power, total and per phase	Q_1, Q_2, Q_3, Q_{tot}	kVAr	–	■	□	□	■
Power factor of the fundamental	P_{F1}, P_{F2}, P_{F3}, P_{Favg}		–	■	□ (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	–	–	–	–	–	■
Condition Monitoring [2]							
Operating cycles counter	CLOSE-OPEN cycle		■	■	–	–	■
Operating hours		h	■	■	–	–	■
Trip counter	Differentiated by trip causes		■	■	–	–	■
Health indicator [3]	Incl. contact state	%	■	■	■	–	■
Remaining life time [3]		Time	■	■	–	–	■

■ Available □ Displayable – Not available

[1] Depending on ETU version
[2] Only available with continuous external power supply and COM060 and COM800/100 communication interfaces
[3] Firmware 4.4 or higher of ETU, COM060, COM800/100 required

	3VA20 3VA21 3VA22	3VA23 3VA24 3VA25
COM060 communication modules		
 • For mounting in the right-hand accessories compartment of the 3VA2 molded case circuit breaker (including ETU power supply) • Including a T-Connector		
Purpose		
Communication to the COM800/COM100 breaker data server via 3VA line	3VA9187-0TB10	3VA9387-0TB10
24 V modules		
 • 24 V DC • For mounting in the right-hand accessories compartment of the 3VA2		
Purpose		
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	3VA9387-0TB50

System overview, page 2/20



System overview, page 2/20

Communication

Breaker data server

COM800 breaker data servers

Version	Article No.
Central communication module for connection of up to eight 3VA2 molded case circuit breakers via the 3VA line, Ethernet 10/100 Mbps interface module socket for inserting an optional PROFIBUS DP or PROFINET module, 2 terminating resistors	3VA9987-0TA10

COM100 breaker data servers

Version	Article No.
Central communication module for connection of a 3VA2 molded case circuit breaker via the 3VA line, Ethernet 10/100 Mbps interface module socket for inserting an optional PROFIBUS DP or PROFINET module, 2 terminating resistors	3VA9987-0TA20

7KM PAC PROFIBUS DP expansion modules

Purpose	Article No.
Used for connecting the COM800/COM100 breaker data server, and the 3VA molded case circuit breakers connected to it, to PROFIBUS DPV1. Supplies the state and measured variables of the 3VA molded case circuit breaker for the PROFIBUS DP master. Receives information (e.g. commands) from the PROFIBUS DP master and transmits them to the 3VA molded case circuit breaker.	7KM9300-0AB01-0AA0

7KM PAC Switched Ethernet PROFINET expansion modules

Purpose	Article No.
Used for connecting the COM800/COM100 breaker data server, and the connected 3VA molded case circuit breakers, to PROFINET via two Ethernet interfaces. Supplies the state and measured variables of the 3VA molded case circuit breakers to PROFINET via the PROFINET IO, PROFIenergy and Modbus TCP protocols.	7KM9300-0AE02-0AA0

7KM PAC RS485 Modbus RTU expansion modules

Purpose	Article No.
Used for connecting the COM800/COM100 breaker data server, and the 3VA molded case circuit breakers connected to it, to Modbus RTU. Supplies the state and measured variables of the 3VA molded case circuit breaker for the Modbus RTU master. Receives information (e.g. commands) from the Modbus RTU master and transmits them to the 3VA molded case circuit breaker.	7KM9300-0AM00-0AA0

Interfaces to IEC 61850

Purpose: The SICAM A8000 smart breaker data server connects the circuit breakers from the SENTRON portfolio via the MODBUS TCP/IP protocol and transmits data via communication protocols (e.g.: IEC 61850, IEC 60870-5-104, IEC 60870-5-101, MODBUS and DNP) to higher-level systems.

Type	Processor assembly	Operating voltage	Article No.
SICAM CP-8021 [1]	4 interfaces		6MF28021AA00
SICAM PS-8620	–	24 ... 60 V DC (12 W)	6MF28620AA00
SICAM PS-8622	–	110 ... 220 V DC (12 W)	6MF28622AA00

[1] Dimensioned for device quantities of 8× 3VA and 1× 3W

You will find further information at:
www.siemens.com/sicam-a8000

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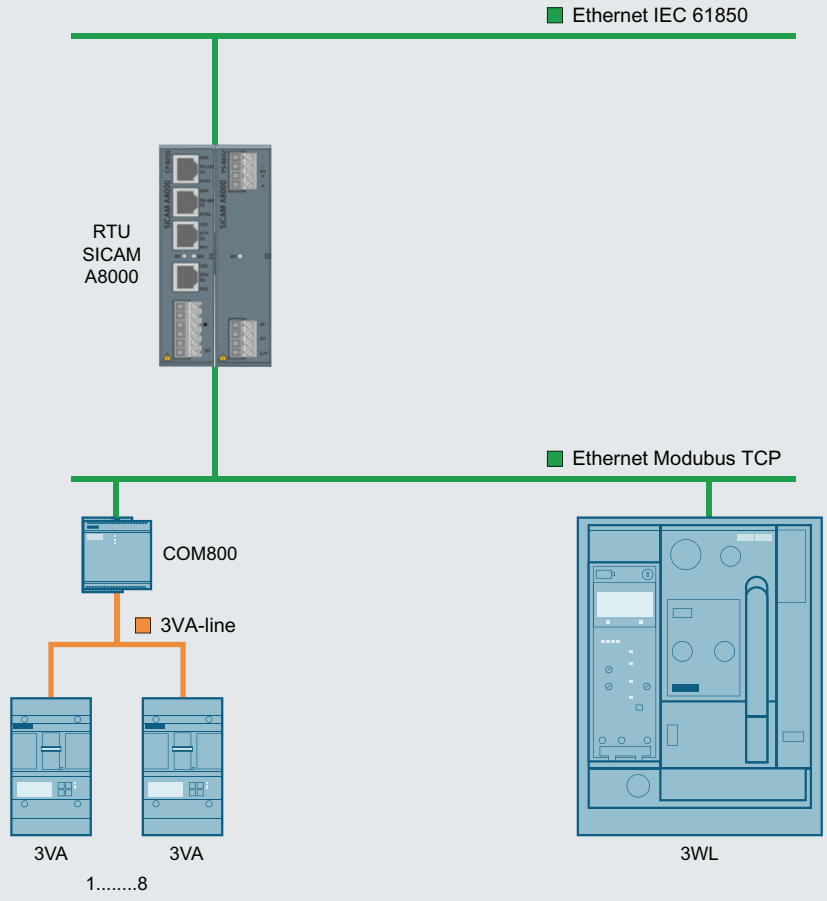


Communication

Accessories for communication

T-connectors (spare part)

Purpose	Article No.
Provides a stub connection to the COM060 and loops through to the next circuit breaker.	3VA9987-0TG10

DIN rail adapters

Purpose	Article No.
For snapping the T-Connector onto a DIN rail.	3VA9987-0TG11

Prefabricated connecting cables, T-connector – T-connector or T-connector – COM800/COM100

Length	Article No.
0.4 m	3VA9987-0TC10
1 m	3VA9987-0TC20
2 m	3VA9987-0TC30
4 m	3VA9987-0TC40

Prefabricated connecting cables for extending the COM060 – T-connector stub connection

Length	Article No.
0.4 m	3VA9987-0TF20
0.8 m	3VA9987-0TF10

Additional bus terminating resistors (spare part)

Purpose	Article No.
For COM800 and COM060	3VA9987-0TE10

Voltage tap to external N conductors (spare part)

Purpose	Article No.
Cable for connection of the star point for the metering function of the 8-series ETU, length 1.5 m	3VA9987-0UC10

External current transformer for N conductors

Purpose	Rated current I_n	Article No.
For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables	25 ... 150 A	3VA9007-0NA10
	160 ... 350 A	3VA9107-0NA10
	400 ... 630 A	3VA9307-0NA10

External current transformers as straight-through transformers

Rated current I_n	Article No.
25 ... 150 A	3VA9077-0NA10
160 ... 350 A	3VA9177-0NA10
400 ... 630 A	3VA9377-0NA10
600 ... 1250 A	3VA9677-0NA10

Connecting cables for external current transformers for N conductors (spare part)

Article No.
3VA9907-0NB10

Display

DSP800 displays

Purpose	Article No.
For displaying the status and measured values of up to eight devices • 3VA2 via COM800/100 • 3VA27 • 3WL10 • 3WL11-13 • PAC3200T	3VA9987-0TD10

System overview, page 2/20

External function box

EFB300 external function boxes

- 4 digital outputs for information output
- 1 digital input
- ZSI functionality
- S0-Interface
- Including cable 1.5 m in length

Purpose	Article No.
For connection to the ETU of 3VA2 molded case circuit breakers	3VA9987-0UA10

Connecting cables for EFB300

Length	Purpose	Article No.
1.5 m	For 3VA2 with EFB	3VA9987-0UB10
3.0 m	For 3VA2 with EFB	3VA9987-0UB20
	For 3VA2 with EFB and RCD820	3VA9987-0UB30

Test devices

TD300 test devices

Purpose	Connection	Article No.
For activation of the ETU and initiation of a test tripping operation	On the front interface of the ETU	3VA9987-0MA10

TD400 test devices

- Energy supply via batteries or the USB-C interface
- USB-C interface for connecting a PC with SENTRON powerconfig
- Bluetooth interface for connection to a PC, smartphone or tablet
- ETU parameterization
- Including adapter and connecting cable to 3VA2 molded case circuit breaker and IEC 3WL (ETU release 2)
- Including case

Purpose	Connection	Article No.
Initiation of a test tripping operation	On the front interface of the ETU (3VA and IEC 3WL ETU release 2)	3VW9011-0AT40

TD500 test devices

- USB interface for connecting a PC with SENTRON powerconfig
- Including external power supply
- Including connecting cable to 3VA2 molded case circuit breaker

Purpose	Connection	Article No.
Initiation of various test tripping operations (LSING), ETU parameterization	On the front interface of the ETU	3VA9987-0MB10

External power supplies for TD500 (spare part)

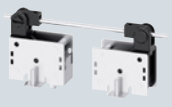
Voltage	Article No.
110 ... 240 V	3VA9987-0MX10

Connecting cables for connecting TD500 to 3VA2 molded case circuit breakers (spare part)

Article No.
3VA9987-0MY10

System overview, page 2/20

Locking, blocking and interlocking

			3VA11	3VA12	3VA20 3VA21 3VA22
Locking					
• The locking devices make it possible to lock the 3VA molded case circuit breakers in either the OFF or the ON operating position.					
Version					
 Cylinder lock	Key 1 (lock number 1)			3VA9980-0VL10	
	Key 3 (lock number 3)			3VA9980-0VL30	
	Key 4 (lock number 4)			3VA9980-0VL40	
 Adapter kit for mounting the cylinder lock (type RONIS) in the accessories compartment of the molded case circuit breaker			3VA9157-0LF10	3VA9257-0LF10	3VA9167-0LF10
 Locking device for toggle operating mechanism			3VA9088-0LB10		3VA9388-0LB10
Interlocking					
• Using 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					
Version					
 Cylinder lock	Key 1 (lock number 1)			3VA9980-0VL10	
	Key 3 (lock number 3)			3VA9980-0VL30	
	Key 4 (lock number 4)			3VA9980-0VL40	
 Sliding bar interlock			3VA9158-0VF30	3VA9258-0VF30	3VA9168-0VF30
 Module for handle interlock using a Bowden cable			3VA9157-0VF10	3VA9257-0VF10	3VA9167-0VF10
Bowden cable	Length 0.6 m			3VA9980-0VC10	
	Length 1.0 m			3VA9980-0VC20	
	Length 1.5 m			3VA9980-0VC30	
 Rear interlock with rod	Circuit breaker, fixed-mounted			3VA9088-0VM10	
	Plug-in/draw-out technology			3VA9088-0VM30	
 Mounting frame for rear interlock with rod	Profile rails			3VA9088-0VK10	
	Mounting plate		3VA9158-0VK20	3VA9258-0VK20	3VA9268-0VK20

[1] With mounting frame for rear interlock.
Can be used with breaker 3VA15 from "E02" and 3VA25 from "E05" (Line protection CB with TMTU, 3-Series ETU and 5-Series ETU)

System overview, page 2/20

3VA13 3VA14	3VA15	3VA23 3VA24	3VA25 3VA26

Locking

		Use in	Locking in OFF position	Locking in ON position	Front mounting	Rear mounting	Interlocked breakers
3VA9980-0VL10	–	Breakers, motor-drive mechanisms, manual operators, draw-out technology	■	■	■	–	–
3VA9980-0VL30	–						
3VA9980-0VL40	–						
3VA9367-0LF10	3VA9587-0LF10	Circuit breaker	■	■	■	–	–
3VA9388-0LB10	3VA9588-0LB10	Circuit breaker	■	■	■	–	–

Interlocking

		Use in	Locking in OFF position	Locking in ON position	Front mounting	Rear mounting	Interlocked breakers
3VA9980-0VL10	–	Breakers, manual operators	■	■	■	–	Unlimited
3VA9980-0VL30	–						
3VA9980-0VL40	–						
3VA9368-0VF30	–	Circuit breaker	–	–	■	–	3
3VA9367-0VF10	3VA9587-0VF10	Circuit breaker	–	–	■	–	3
3VA9980-0VC10							
3VA9980-0VC20							
3VA9980-0VC30							
3VA9088-0VM10	3VA9588-0VM10 [1]	Circuit breaker, fixed-mounted	–	–	–	■	2
3VA9088-0VM30	–	Plug-in/draw-out technology					
3VA9088-0VK10	–		–	–	–	■	
3VA9468-0VK20	–						

System overview, page 2/20

Cover frame and mounting

		3VA10 3VA11	3VA12
Cover frames for door cutouts for molded case circuit breakers			
			
Number of poles	**Door cut-out with trip unit**		
3P	No	3VA9053-0SB10	3VA9253-0SB10
	Yes	3VA9053-0SB20	3VA9253-0SB20
4P	No	3VA9054-0SB10	3VA9254-0SB10
	Yes	3VA9054-0SB20	3VA9254-0SB20
Cover frames for MO320 motor operators			
			
Purpose			
MO320 motor operator		3VA9053-0SB20	3VA9257-0SB30
Motor operator with SEO520 stored energy operator		–	–
Cover frames for RCD320, RCD520 and RCD820 residual current devices			
			
Number of poles			
3P		3VA9053-0SB10	3VA9253-0SB10
4P		3VA9054-0SB10	3VA9254-0SB10
Cover frames for front mounted rotary operators			
			
		3VA9053-0SB10	3VA9253-0SB10
Cover frames for door feedthroughs			
			
		–	3VA9253-0SB20
Labeling plates for cover frame			
			
			3VA9087-0SX10
Adapters for DIN rails for 3VA1 molded case circuit breakers			
			
Number of poles			
1P		3VA9181-0SH10	–
2P		3VA9182-0SH10	–
3P and 4P		3VA9187-0SH10	–
3P and 4P in connection with RCD310 or RCD510		3VA9187-0SH20	–
Mounting screw kits			
			
Purpose	**Number of poles**		
For fixed-mounted breakers	1P	3VA9111-0SS10	–
	2P and 3P (apart from 125 A/160 A with 55 kA and 70 kA)	3VA9116-0SS10	
	3P (125 A/160 A with 55 kA and 70 kA) and 4P	3VA9114-0SS10	
	3P	–	–
	4P	–	–
	3P and 4P	–	–
For plug-in technology	–	3VA9114-0SS10	
For plug-in and draw-out technology	–	–	3VA9114-0SS10

Adapter for 60 mm busbar system (8US), see page 13/26

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3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26
3VA9163-0SB10	3VA9383-0SB10	3VA9503-0SB10
3VA9163-0SB20	3VA9363-0SB20	3VA9503-0SB20
3VA9164-0SB10	3VA9384-0SB10	3VA9504-0SB10
3VA9164-0SB20	3VA9364-0SB20	3VA9504-0SB20
3VA9257-0SB30	3VA9387-0SB30	–
3VA9167-0SB30	–	–
3VA9253-0SB10	3VA9303-0SB40	–
3VA9254-0SB10	3VA9304-0SB40	–
3VA9163-0SB10	3VA9383-0SB10	3VA9503-0SB50
3VA9253-0SB20	3VA9353-0SB20	–
	3VA9087-0SX10	
–	–	–
–	–	–
–	–	–
–	–	–
–	–	–
–	–	–
–	–	–
3VA9126-0SS10	–	–
3VA9124-0SS10	–	–
–	3VA9328-0SS10	3VA9517-0SS10
–	–	–
3VA9124-0SS10	3VA9328-0SS10	–

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System overview

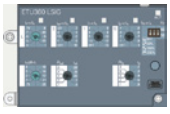
For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va27-configurator

Switching devices

Handle

Stored energy operator

Trip units



Electronic trip unit (ETU)

Accessories

Communication module

Rating plugs

Breaker Connect module

Test devices and breaker data adapters

Main conductor connections

Rear vertical/ horizontal

Rear broadened

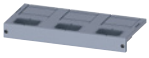
Front extended

Front broadened

Cable lug

Accessories

Phase barriers



Terminal cover

Motors

Spring charging motor

Accessories

Mechanical operating cycles counter (MOC)

Auxiliary releases / closing coils

Undervoltage release (UVR) / Shunt trip (ST)

Closing coil (CC) / Remote reset magnet (RR)

Note:
You will find a detailed range of accessories in the Accessories and spare parts section.

Auxiliary switches

Tripped signaling switch

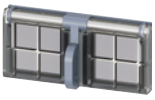
Ready-to-close signaling switch (RTC)

Auxiliary switch ON/OFF (AUX)

Tripped signaling switch (S24)

Trip alarm switch (TAS)

Further accessories



Padlockable protective cover

Locking device

Locking mechanism

Door sealing frame

Protective cover

Mutual mechanical interlocking

Manual operator

Note:
You will find a detailed range of accessories in the Accessories and spare parts section.

Structure of the article numbers

Basic configuration with toggle operating mechanism

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va27-configurator

	6	7	8	9	10	11	12	13	14	15	16
3VA27	■	■	– ■	■	■	■	■	–			

Basic units and ETUs

Max. rated current I_n	800 A			8	0		
	1000 A			1	0		
	1250 A			1	2		
	1600 A			1	6		
Short-circuit breaking capacity $I_{cu} = I_{cs}$ at 415 V	Toggle operating mechanism	55 kA			5		
		85 kA			6		
		110 kA			7		
Non-automatic air circuit breakers	Without metering function, without a communication link	Without trip unit			A	A	
Circuit breakers, ETU 3-series	Without metering function, without a communication link	With trip unit	ETU320 LI	(N) [1]	A	B	
			ETU350 LSI	(N) [1]	A	C	
			ETU360 LSIG	(N) [1]	A	D	
Circuit breakers, ETU 6-series		With trip unit	ETU650 LSI	(N) [1]		E	
			ETU660 LSIG	(N) [1]		F	
	Without communications interface	Without metering function			A		
	With communications interface	Without metering function			B		
		Metering function Basic	Voltage tap on bottom		C		
			Voltage tap on top		D		
		Metering function Advanced	Voltage tap on bottom		E		
			Voltage tap on top		F		

[1] Neutral conductor protection for 3-pole breakers with an external neutral conductor transformer or 4-pole breakers

Number of poles	Fixed-mounted versions	3-pole		0
		4-pole	Neutral left	1
			Neutral right	2
	Withdrawable	3-pole		3
		4-pole	Neutral left	4
			Neutral right	5

Connection

Installation type	Withdrawable	Withdrawable circuit breaker without guide frame (guide frame must be ordered separately)	0
	Fixed-mounted breaker / withdrawable breaker	Rear vertical connection	1
		Rear horizontal connection	2
		Front terminal for main circuit connection	3
		Front-accessible, extended terminal for main circuit connection	5
		Front-accessible, broadened terminal for main circuit connection	6
		Rear broadened bus connectors	7

Quick selection guide, page 2/12

3VA27 6 7 – 8 9 10 11 12 – 13 14 15 16

Alarm switch combinations

Alarm switches	Without	0
	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

Auxiliary releases, closing coils

Closing coil (CC), remote reset magnet (RR)	Without	A

2nd auxiliary release	Without 2nd auxiliary release		A
	With undervoltage release (UVR)	24 V AC/DC	B
		30 V AC/DC	C
		48 V AC/DC	D
		60 V AC/DC	E
		110 ... 120 V AC/DC	F
		120 ... 127 V AC/DC	G
		220 ... 240 V AC/DC	H
		240 ... 250 V AC/DC	J
		380 ... 400 V AC/DC	K
		415 ... 440 V AC/DC	L
	With undervoltage release (UVR), delayable with external time-delay device Scope of supply: UVR + time-delay device	24 ... 30 V AC/DC	M
		110 ... 127 V AC/DC	N
		220 ... 250 V AC/DC	P
	With 2nd shunt trip (ST2)	24 V AC/DC	Q
		30 V AC/DC	R
		48 V AC/DC	S
		60 V AC/DC	T
		110 ... 120 V AC/DC	U
		120 ... 127 V AC/DC	V
		220 ... 240 V AC/DC	W
		240 ... 250 V AC/DC	X

1st auxiliary release	Without 1st auxiliary release		0
	Shunt trip (ST)	24 V AC/DC	1
		30 V AC/DC	2
		48 V AC/DC	3
		60 V AC/DC	4
		110 ... 120 V AC/DC	5
		120 ... 127 V AC/DC	6
		220 ... 240 V AC/DC	7
		240 ... 250 V AC/DC	8

Quick selection guide, page 2/12

Structure of the article numbers

Basic configuration with stored energy operating mechanism

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va27-configurator

	6	7	8	9	10	11	12	13	14	15	16
3VA27			–					–			

Basic units and ETUs

Max. rated current I_n	800 A			8	0						
	1000 A			1	0						
	1250 A			1	2						
	1600 A			1	6						
Short-circuit breaking capacity $I_{cu} = I_{cs}$ at 415 V	Stored energy operating mechanism	55 kA				1					
		85 kA				2					
		110 kA				3					
Non-automatic air circuit breakers	Without metering function, without a communication link	Without trip unit				A	A				
Circuit breakers, ETU 3-series	Without metering function, without a communication link	With trip unit	ETU320 LI	(N) [1]		A	B				
			ETU350 LSI	(N) [1]		A	C				
			ETU360 LSIG	(N) [1]		A	D				
Circuit breakers, ETU 6-series		With trip unit	ETU650 LSI	(N) [1]			E				
			ETU660 LSIG	(N) [1]			F				
	Without communications interface	Without metering function				A					
	With communications interface	Without metering function				B					
		Metering function Basic	Voltage tap on bottom			C					
			Voltage tap on top			D					
		Metering function Advanced	Voltage tap on bottom			E					
			Voltage tap on top			F					

[1] Neutral conductor protection for 3-pole breakers with an external neutral conductor transformer or 4-pole breakers

Number of poles	Fixed-mounted versions	3-pole		0
		4-pole	Neutral left	1
			Neutral right	2
	Withdrawable	3-pole		3
		4-pole	Neutral left	4
			Neutral right	5

Connections

Installation type	Withdrawable	Withdrawable circuit breaker without guide frame (guide frame must be ordered separately)	0
	Fixed-mounted breaker / withdrawable breaker	Rear vertical connection	1
		Rear horizontal connection	2
		Front terminal for main circuit connection	3
		Front-accessible, extended terminal for main circuit connection	5
		Front-accessible, broadened terminal for main circuit connection	6
		Rear broadened bus connectors	7

Motor

Operating mechanisms	Manual operator		0
	Spring charging motor	24 ... 30 V AC/DC	1
		48 ... 60 V AC/DC	2
		110 V AC/DC	3
		230 V AC/DC	4

Quick selection guide, page 2/12

3VA27 6 7 – 8 9 10 11 12 13 – 14 15 16

Auxiliary releases, closing coils, remote reset magnets

			14	15	16
Closing coil (CC), remote reset magnet (RR)	Without		A		
	Closing coil (CC)	24 V AC/DC	B		
		30 V AC/DC	C		
		48 V AC/DC	D		
		60 V AC/DC	E		
		110 ... 120 V AC/DC	F		
		120 ... 127 V AC/DC	G		
		220 ... 240 V AC/DC	H		
		240 ... 250 V AC/DC	J		
	Closing coil (CC) and additional remote reset magnet (RR)	24 V AC/DC	K		
		110 V AC/DC	L		
		220 V AC/DC	M		
2nd auxiliary release	Without 2nd auxiliary release			A	
	With undervoltage release (UVR)	24 V AC/DC		B	
		30 V AC/DC		C	
		48 V AC/DC		D	
		60 V AC/DC		E	
		110 ... 120 V AC/DC		F	
		120 ... 127 V AC/DC		G	
		220 ... 240 V AC/DC		H	
		240 ... 250 V AC/DC		J	
		380 ... 400 V AC/DC		K	
		415 ... 440 V AC/DC		L	
	With undervoltage release (UVR), delayable with external time-delay device Scope of supply: UVR + time-delay device	24 ... 30 V AC/DC		M	
		110 ... 127 V AC/DC		N	
		220 ... 250 V AC/DC		P	
	With 2nd shunt trip (ST2)	24 V AC/DC		Q	
		30 V AC/DC		R	
		48 V AC/DC		S	
		60 V AC/DC		T	
		110 ... 120 V AC/DC		U	
		120 ... 127 V AC/DC		V	
		220 ... 240 V AC/DC		W	
		240 ... 250 V AC/DC		X	
1st auxiliary release	Without 1st auxiliary release				0
	Shunt trip (ST)	24 V AC/DC			1
		30 V AC/DC			2
		48 V AC/DC			3
		60 V AC/DC			4
		110 ... 120 V AC/DC			5
		120 ... 127 V AC/DC			6
		220 ... 240 V AC/DC			7
		240 ... 250 V AC/DC			8

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Accessory options

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va27-configurator

To specify the options, add „-Z" to the complete Article No. and indicate the appropriate order code(s).

3VA27..-.....-.... -Z

Order code

Accessories for basic configuration

Mounting options for fixed mounting

- In the basic configuration, the fixed-mounted circuit breaker is mounted onto the rear panel. Floor mounting is possible as an option. The device must additionally be modified if it is to be extended to include functionalities such as external auxiliary switches or mechanical interlocks.[1)]

Mounting options for fixed mounting[1)]	Floor mounting	Mounting support standard	≋	◢		A	0	7
		Mounting support extended[2)]	≋	◢		S	5	6
	Rear panel mounting onto mounting plate	Side wall extended[2)]	≋	◢		S	5	7

Accessories for electronic trip units ETU

Rating plugs

- The electronic trip units are equipped as standard 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 less 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 via a Z option.
- Other functions can also be activated using rating plugs (L = OFF or Rc protection).

Rating plug	For setting the rated current I_n	For all ETU	400 A	≋	◢		B	0	4
			630 A	≋	◢		B	0	6
			800 A	≋	◢		B	0	8
			1000 A	≋	◢		B	1	0
			1200 A	≋	◢		B	1	2
	For setting the rated current I_n, with overload protection L = OFF	For ETU 6-series	400 A	≋	◢		L	0	4
			630 A	≋	◢		L	0	6
			800 A	≋	◢		L	0	8
			1000 A	≋	◢		L	1	0
			1250 A	≋	◢		L	1	2
			1600 A	≋	◢		L	1	6
	For setting the rated current I_n, For enabling the residual current protection function. The residual current function is only possible with the MF Advanced metering function.	For ETU660 only	400 A	≋	◢		G	0	4
			630 A	≋	◢		G	0	6
			800 A	≋	◢		G	0	8
			1250 A	≋	◢		G	1	2

Communication modules

- Up to 2 different communication modules can be used at the same time.
- When using an IOM040 digital I/O module (Z option K56), only 1 communication module can be used.

Communication modules	COM040	Modbus TCP	≋	◢		F	0	2
	COM041	Modbus RTU	≋	◢		F	0	3
	COM043	Modbus TCP	≋	◢		F	1	1
	COM042	Modbus RTU	≋	◢		F	1	2

Breaker Connect modules

- When a circuit breaker with a communications interface is ordered, a Breaker Connect module for external 24 V DC power supply of the electronic components is also supplied ready installed as standard.
- By means of this Z option, the Breaker Connect module for 24 V DC is replaced by a Breaker Connect module for 110–240 V AC/DC.

Breaker Connect module	110 ... 240 V AC/DC		≋	◢		F	2	6

I/O modules internal

I/O modules internal	IOM040 digital I/O module	2 inputs, 2 outputs	≋	◢		K	5	6

≋ For molded case circuit breakers with stored energy operating mechanism

◢ For molded case circuit breakers with toggle operating mechanism

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

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

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To specify the options, add „-Z" to the complete Article No. and indicate the appropriate order code(s).

3VA27..-.....-.... -Z

Accessories for motors

					Order code		
5-digit mechanical operating cycles counter					C	0	1

Auxiliary switches and signaling switches

- Auxiliary and signaling switches for currents >100 mA and up to 400 V AC are installed as standard.
- For currents <100 mA for PLC connections, these auxiliary and signaling switches can be replaced.
- The auxiliary/signaling switches for 24 V DC digital signals are designed for a
  - minimum load above 1 mA at 5 V DC, and a
  - maximum breaking capacity of 100 mA at 24 V DC.

Position signaling switches for guide frames [1]		2 CO | 2 CO | 2 CO (connected | test | disconnected position)			K	5	5
Signaling switch	Ready-to-close signaling	1 CO contact digital 24 V DC			K	5	0
	Tripped signaling switch (S24)	1 CO contact digital 24 V DC			K	5	3
	Spring charged signaling switch (S21)	1 CO contact digital 24 V DC			K	5	4
Auxiliary switch	On / Off AUX	4 CO contacts digital 24 V DC			K	5	1
		2 CO contacts 400 V AC, and 2 CO contacts digital 24 V DC			K	5	2

Locking, blocking and interlocking

Locking devices [1]	To prevent movement of withdrawable circuit breaker	Cylinder lock	Made by RONIS		R	7	8
		For no more than three 8-mm padlocks			R	6	5
Locking mechanism	To prevent movement to disconnected position				R	7	9
Locking device	To prevent unauthorized activation in the operator panel (safe OFF)	Cylinder lock, made by RONIS			S	0	8
		For no more than 3 padlocks, plastic 4 mm			S	2	2
		For no more than 1 padlock, metal 7 mm			S	2	3
		For no more than 2 padlocks, metal 8 mm			S	0	7
Padlockable protective cover	For mechanical ON and/or OFF on the operator panel	For no more than 3 padlocks, plastic 4 mm			S	4	2
		For no more than 1 padlock, metal 7 mm			S	4	3
		For no more than 2 padlocks, metal 8 mm			S	4	4
Protective cover	For mechanical ON/OFF, not lockable				S	4	1
Door sealing frame IP30	IP3x				T	3	0

For molded case circuit breakers with stored energy operating mechanism

For molded case circuit breakers with toggle operating mechanism

[1] Can be used both for individual orders of the guide frame and complete orders (circuit breaker + guide frame).

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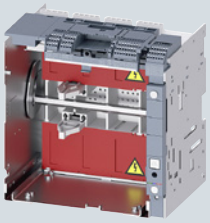
Guide frames

Guide frames for ordering separately without circuit breakers



- Guide frames without breakers up to 1250 A
- **Note:** All CB bus modules for communication COM04x / IOM300 / Breaker Connect module, as well as COMPSS signaling switches are configured without frames in the withdrawable circuit breaker and defined there by means of Z options, and are 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.

Number of poles	Connection type	3VA27 Article No.
3-pole	Rear vertical	3VW8116-7AA01
	Rear horizontal	3VW8116-7AB01
	Front straight bus connectors extended	3VW8116-7AE01
	Broadened bus connectors	3VW8116-7AF01
	Rear broadened bus connectors	3VW8116-7AG01
4-pole	Rear vertical	3VW8116-7BA01
	Rear horizontal	3VW8116-7BB01
	Front straight bus connectors extended	3VW8116-7BE01
	Broadened bus connectors	3VW8116-7BF01
	Rear broadened bus connectors	3VW8116-7BG01

To specify the options, add „-Z" to the complete Article No. and indicate the appropriate order code(s).

3VW8....-.....-.... -Z Order code

Locking, blocking and interlocking

Locking device	To prevent movement of withdrawable circuit breaker	Cylinder lock, made by RONIS	≡	◢		R	7	8
		For no more than 3 8-mm padlocks	≡	◢		R	6	5
Locking mechanism	To prevent movement to disconnected position (only in combination with R78 or R65)		≡	◢		R	7	9

Auxiliary/signaling switches

Position signaling switch PSS for guide frame	For 24 V DC digital signals, for minimum currents	2 CO | 2 CO | 2 CO (connected | test | disconnected position)	≡	◢		K	5	5

Auxiliary and signaling switches for currents >100 mA and up to 400 V AC are installed as standard.
For currents <100 mA for PLC connections, these auxiliary and signaling switches can be modified.
The auxiliary/signaling switches for 24 V DC digital signals are designed for
- A minimum load above 1 mA at 5 V DC, and
- A maximum breaking capacity of 100 mA at 24 V DC.

≡ For molded case circuit breakers with stored energy operating mechanism
◢ For molded case circuit breakers with toggle operating mechanism

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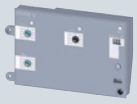
Electronic trip unit ETU and accessories

Electronic trip units (ETU)

	Version	With communications / metering function, enhanced protection functions	Type	Protective function		3VA27 Article No.
	With rotary coding switches	No	ETU320	LIN	≋ ◢	3VW9011-5AA00
			ETU350	LSIN	≋ ◢	3VW9012-5AA00
			ETU360	LSING	≋ ◢	3VW9012-7AA00
	With display	Yes	ETU650	LSIN	≋ ◢	3VW9017-5AA00
			ETU660	LSING	≋ ◢	3VW9017-7AA00

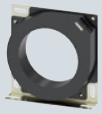
Metering functions for ETU650 or ETU660

	Description	Protective function / version	Arrangement		3VA27 Article No.
	Metering function	MF Basic	–	≋ ◢	3VW9011-0AT01
		MF Advanced	–	≋ ◢	3VW9011-0AT04
	Set of cables for voltage tap for MF	For 4-pole circuit breakers with N conductor right	Top or bottom	≋ ◢	3VW9011-0AT08
		For 4-pole circuit breakers with N conductor left	Top	≋ ◢	3VW9011-0AT75
			Bottom	≋ ◢	3VW9011-0AT76
		For 3-pole circuit breakers	Top	≋ ◢	3VW9011-0AT72
			Bottom	≋ ◢	3VW9011-0AT73

External current transformers for N conductors

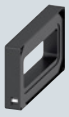
	Accessory for	Purpose		3VA27 Article No.
	ETU320, ETU350, ETU360, ETU650, ETU660	Only for 3-pole circuit breakers	≋ ◢	3VW9011-0AA30

External current transformers for grounded transformer star points

	Accessory for	G_{ret} (Ground return)		3VA27 Article No.
	ETU660	100 A	≋ ◢	3VW9011-0GF30
		250 A	≋ ◢	3VW9011-0GF31

Summation current transformers external Rc-CT for residual current measurement

- Only with MF Advanced metering function and Rc rating plug

	Accessory for	Purpose		3VA27 Article No.
	ETU660	For external residual current measurement	≋ ◢	3VW9011-0RC30

Remote reset magnets RR for the circuit breakers including tripped signal

- Remote reset magnet (RR) for resetting the circuit breaker after tripping as a result of overcurrent conditions

	Accessory for	Voltage		3VA27 Article No.
	ETU320, ETU350, ETU360, ETU650, ETU660	24 V DC	≋ –	3VW9011-0AK03
		110 V AC/DC	≋ –	3VW9011-0AK05
		250 V AC/DC	≋ –	3VW9011-0AK06

Replacement batteries for electronic trip unit ETU

	Accessory for		3VA27 Article No.
	ETU320, ETU350, ETU360, ETU650, ETU660	≋ ◢	3VW9011-0AT38

≋ For molded case circuit breakers with stored energy operating mechanism

◢ For molded case circuit breakers with toggle operating mechanism

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Electronic trip unit ETU and accessories

Rated current modules / rating plugs

- Only one module is possible per circuit breaker.

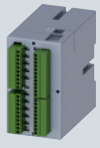
Accessory for	Version	Rated current I_n		Article No.
ETU320, ETU350, ETU360, ETU650, ETU660	Rating plugs for setting (< $I_{n\ max}$) the rated current I_n	400 A		3VW9011-0AA53
		630 A		3VW9011-0AA55
		800 A		3VW9011-0AA56
		1000 A		3VW9011-0AA57
		1250 A		3VW9011-0AA58
		1600 A		3VW9011-0AA61
ETU 6-series	Rating plug without overload protection (L = OFF) and for setting (< $I_{n\ max}$) the rated current I_n	400 A		3VW9011-0LF53
		630 A		3VW9011-0LF55
		800 A		3VW9011-0LF56
		1000 A		3VW9011-0LF57
		1250 A		3VW9011-0LF58
		1600 A		3VW9011-0LF61
ETU660	Rating plug Rc for ETU660 for enabling the residual current protection function and setting (< $I_{n\ max}$) the rated current I_n. The residual current function is only possible with the MF Advanced metering function.	400 A		3VW9011-0RC53
		630 A		3VW9011-0RC55
		800 A		3VW9011-0RC56
		1250 A		3VW9011-0RC58

CB bus modules - communication modules

- Contains the communication module
- Up to 2 different communication modules can be used at the same time.
- When using a digital I/O module IOM040 (Z option K56), only 1 communication module can be used.
- Can only be used with ETU 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.

Communication module	Protocol			Article No.
COM040	PROFIBUS			3VW9011-0AT15
COM041	PROFINET			3VW9011-0AT14
COM043	Modbus TCP			3VW9011-0AT16
COM042	Modbus RTU			3VW9011-0AT17

CB bus modules - I/O modules external IOM300



- For snapping onto standard mounting rail

Accessory for	Maximum switching current per contact	Inputs	Outputs		Article No.
ETU 6-series	• 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	11	10		3VW9011-0AT20

CB bus modules - I/O modules internal IOM040

- When using a digital I/O module IOM040, only 1 communication module can be used.

Accessory for	Maximum switching current per contact	Inputs	Outputs		Article No.
ETU 6-series	• 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	2	2		3VW9011-0AT30

For molded case circuit breakers with stored energy operating mechanism

For molded case circuit breakers with toggle operating mechanism

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				3VA27
Actuator modules COM ACT				
	• For switching the circuit breaker on/off remotely via communication. • Actuation of the closing coil (CC) and the 1st shunt trip (ST). • Can only be used in combination with a communication module, spring charging motor, closing coil and 1st shunt trip. • Automatically included if the communications interface of theETU 6-series is selected in the basic circuit breaker configuration.			
	Accessory for			**Article No.**
	ETU 6-series	≋	–	3VW9011-0AT10
Breaker Connect modules				
	• For external power supply for the electronics components			
	Voltage			**Article No.**
	110 ... 240 V AC/DC	≋	◢	3VW9011-0AT06
	24 ... 48 V DC	≋	◢	3VW9011-0AT07
Auxiliary contact signals for communications interfaces				
	• Auxiliary contacts for signaling the readiness to close or for 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. • **Note:** Both signaling switches are automatically included in the basic circuit breaker (COM PSS only with withdrawable versions) if the communications interface of the ETU 6-series is selected.			
	Function			**Article No.**
	Ready-to-close signaling switch for communication (COM RTC)	≋	–	3VW9011-0AT11
	Position signaling switch COM PSS (for withdrawable breaker only)	≋	◢	3VW9011-0AT12
Test devices and breaker data adapters				
	• Usable for all ETU 3-series and 6-series			
	Description	**Type**		**Article No.**
	Test device • For the trip test via ETU and tripping solenoid including release • Activation of the ETU and the tripping solenoid 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	TD310	≋ ◢	3VW9011-0AT32
	Breaker data adapter • As gateway for parameterization of the ETU with SENTRON powerconfig • For generation of a report of the set parameters with powerservice	TD410	≋ ◢	3VW9011-0AT34
	Test device and breaker data adapter • As gateway for parameterization of the ETU with SENTRON powerconfig – Testing a tripping operation using SENTRON powerconfig • For use with the powerservice software – Testing of the basic protection functions LSING – Testing of the enhanced protection functions – Test data storage – Readout of ETU buffer – Generation of a report of the set parameters	TD420	≋ ◢	3VW9011-0AT33

≋ For molded case circuit breakers with stored energy operating mechanism

◢ For molded case circuit breakers with toggle operating mechanism

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Accessories for connection and insulation

Front terminals for main circuit connections acc. to IEC 60947-2

- Acc. to IEC 60947-2 for 3VA27 up to 1600 A (depending on application conditions)
- To be ordered separately for top and bottom



Version	Description	Mounting onto	Number of poles / quantity		Article No.
Fixed-mounted	Front terminals for main circuit connection	–	3-pole / 3 units		3VW9011-0AL01
			4-pole / 4 units		3VW9011-0AL02
	Extended main terminals, including insulation plate and phase barriers, standard	Front terminals for main circuit connection	3-pole / 3 units		3VW9011-0AL77
			4-pole / 4 units		3VW9011-0AL78
	Broadened main terminals, including insulation plate and extended phase barriers	Front terminals for main circuit connection, top	3-pole / 3 units		3VW9011-0AL73
		Front terminals for main circuit connection, bottom	3-pole / 3 units		3VW9011-0AL75
		Front terminals for main circuit connection, top/ bottom	4-pole / 4 units		3VW9011-0AL74
Withdrawable	Front-accessible terminals for main circuit connection	Guide frame flange	3-pole / 3 units		3VW9011-0AN01
			4-pole / 4 units		3VW9011-0AN02
	Broadened main circuit connections	Front-accessible terminals for main circuit connection	3-pole / 3 units		3VW9011-0AN73
			4-pole / 4 units		3VW9011-0AN74


Rear terminals for main circuit connections acc. to IEC 60947-2

- Acc. to IEC 60947-2 for 3VA27 up to 1600 A (depending on application conditions)
- To be ordered separately for top and bottom



Fixing	Version	Mounting onto	Number of poles / quantity		Article No.
Fixed-mounted	Rear terminals for main circuit connection, rotatable for horizontal / vertical connection Including terminal cover	–	3-pole / 3 units		3VW9011-0AL32
			4-pole / 4 units		3VW9011-0AL33
Withdrawable	Rear terminals for main circuit connection, rotatable for horizontal / vertical connection Including terminal cover	–	3-pole / 3 units		3VW9011-0AN32
			4-pole / 4 units		3VW9011-0AN33
	Broadened main terminals	Rear horizontal main connec- tions	3-pole / 3 units		3VW9011-0AN75
			4-pole / 4 units		3VW9011-0AN76

Cu-/Al cable connections acc. to IEC 60947-2

- Acc. to IEC 60947-2 for 3VA27 up to 1600 A (depending on application conditions)
- To be ordered separately for top and bottom


Fixing	Version	Mounting onto	Number of poles / quantity		Article No.
Fixed-mounted	Circular conductor terminals 4 x 240 mm² for front cable connection, including insulation plate and high, extended terminal cover	Front terminals for main circuit connection	3-pole / 3 units		3VW9011-0AL71
			4-pole / 4 units		3VW9011-0AL72
Withdrawable	Set of circular conductor connection pieces 4 x 240 mm² for cable lugs for rear cable connection	Rear vertical main connec- tions	3-pole / 3 units		3VW9011-0AN71
			4-pole / 4 units		3VW9011-0AN72

For molded case circuit breakers with stored energy operating mechanism

For molded case circuit breakers with toggle operating mechanism

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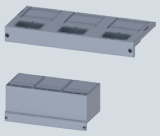
Auxiliary supply connectors in push-in version

- Auxiliary conductor terminal in push-in version for upgrading fixed-mounted breakers and guide frames.
- The device is always fitted at the factory with the exact number of auxiliary conductor terminals required.

Version	3VA27 Article No.
Push-in	3VW9011-0AB11

Terminal covers for fixed circuit breakers



- Finger-proof for front terminals for main circuit connection for fixed-mounting
- Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately.

Version	Number of poles / quantity	3VA27 Article No.
Standard	3-pole / 2 units	3VW9723-0WD30
	4-pole / 2 units	3VW9724-0WD40
Extended	3-pole / 2 units	3VW9723-0WF30
	4-pole / 2 units	3VW9724-0WF40

Phase barriers for fixed breakers

- Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately.
- For operating voltages >440 V AC the use of phase barriers is mandatory; up to 440 V AC their use is optional.

Height	Number of poles / quantity	3VA27 Article No.
100 mm (standard)	3-pole / 4 units	3VW9723-0WA00
	4-pole / 6 units	3VW9724-0WA10
200 mm (extended)	3-pole / 4 units	3VW9723-0WA01
	4-pole / 6 units	3VW9724-0WA11

Supports for mounting the fixed-mounted breakers on the floor

- For fixed-mounted versions only

Version	Purpose	3VA27 Article No.
Mounting support standard (circuit breaker feet) (= Z option A07)		3VW9011-0BB51
Mounting support extended (circuit breaker feet) including mechanical transmission of switch position on circuit breaker side panel (= Z option S56)	• 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), • Mutual mechanical interlocking to 3WL/3VA (for 3VW9011-0BB21)	3VW9011-0BB52

Extension kits for modification of the side wall of the fixed-mounted breakers

- For fixed-mounted breakers only
- Rear fixation on mounting plate
- For modification for mechanical transmission of switch position on circuit breaker side panel (= Z option S57)

Version	Purpose	3VA27 Article No.
Extension kit for side wall	• 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), • Mutual mechanical interlocking to 3WL/3VA (for 3VW9011-0BB21)	3VW9011-0BB53

For molded case circuit breakers with stored energy operating mechanism

For molded case circuit breakers with toggle operating mechanism

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Motor operators and manual operators

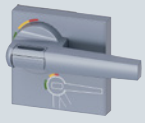
Spring charging motor (MO)

Description	Voltage		Article No.
For automatic charging of the stored energy operating mechanism	24 ... 30 V AC/DC	–	3VW9011-0AF01
	48 ... 60 V AC/DC	–	3VW9011-0AF02
	100 ... 130 V AC/DC	–	3VW9011-0AF03
	220 ... 250 V AC/DC	–	3VW9011-0AF04

Mechanical operating cycles counter MOC

Description	Version		Article No.
Only possible in combination with a spring charging motor.	5 digits	–	3VW9011-0AH07

Manual operators for circuit breakers with toggle operating mechanism



Description	Version	Color	Degree of protection		Article No.
Front rotary operating mechanism incl. door sealing frame	Standard	Gray	IP30	–	3VW9727-0EK11
	EMERCENCY-OFF	Yellow-red	IP30	–	3VW9727-0EK15
Door mounted rotary operator	Standard	Gray	IP30	–	3VW9727-0FK21
	EMERCENCY-OFF	Yellow-red	IP30	–	3VW9727-0FK25
	Basic without handle		IP30	–	3VW9727-0GK00
	Shaft stub		IP30	–	8UD1900-3WD00
	Handle	Gray	IP30	–	8UD1861-0AB11
		Yellow-red	IP30	–	8UD1861-0AB15

For molded case circuit breakers with stored energy operating mechanism

For molded case circuit breakers with toggle operating mechanism

System overview, page 2/64

Auxiliary release, closing coil

Closing coils CC / shunt trips ST

- **Note:**
  - For molded case circuit breakers with stored energy operators, the products can only be used as closing coils CC
  - For molded case circuit breakers with handle mechanisms, the products can be used as closing coils CC and shunt trips ST.

Voltage	Article No.	3VA27
24 V AC/DC	3VW9011-0AD01	
30 V AC/DC	3VW9011-0AD02	
48 V AC/DC	3VW9011-0AD03	
60 V AC/DC	3VW9011-0AD04	
110 ... 120 V AC/DC	3VW9011-0AD05	
120 ... 127 V AC/DC	3VW9011-0AD06	
220 ... 240 V AC/DC	3VW9011-0AD07	
240 ... 250 V AC/DC	3VW9011-0AD08	
380 ... 400 V AC	3VW9011-0AD17	
415 ... 440 V AC	3VW9011-0AD18	

TD320 function test units for closing coils / shunt trips

- The TD320 test unit allows the operational availability and functions of the closing coils and shunt trips 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 visual indicators in the form of LEDs on the front in order to display the following states:
  - LED POWER ON LIT: Correct function of the YO/YC test unit
  - LED DEACTIVATION LIT: Power supply failure, wire break
  - LED SHORT-CIRCUIT LIT: Winding short-circuit
  - LED DEACTIVATION and SHORT-CIRCUIT FLASHING: Incorrect power supply
  - LED DEACTIVATION and SHORT-CIRCUIT OFF: Closing coil / shunt trips OK

Description			Article No.
For all closing coils / shunt trips	≋	–	3VW9011-0AT31

Auxiliary / signaling switches

- The auxiliary/signaling switches for 24 V DC digital signals are designed for a
  - minimum 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.

Description	Contacts			Article No.
Ready-to-close signal RTC	1 CO standard	≋	–	3VW9011-0AH01
	1 CO digital	≋	–	3VW9011-0AH02
Auxiliary switch ON/OFF AUX	4 CO standard	≋	◢	3VW9011-0AG01
	4 CO digital	≋	◢	3VW9011-0AG02
	2 CO standard + 2 CO digital	≋	◢	3VW9011-0AG03
External auxiliary switch ON/OFF AUX	15 CO standard	≋	◢	3VW9011-0AG05
	15 CO digital	≋	◢	3VW9011-0AG06
Tripped signaling switch S24	1 CO standard	≋	◢	3VW9011-0AH14
	1 CO digital	≋	◢	3VW9011-0AH15
Spring charged signaling switch S21	1 CO standard	≋	–	3VW9011-0AH10
	1 CO digital	≋	–	3VW9011-0AH08
Position signaling switches PSS (only with draw-out versions)	2 CO | 2 CO | 2 CO (connected | test | disconnected position) standard	≋	◢	3VW9011-0AH11
	2 CO | 2 CO | 2 CO (connected | test | disconnected position) digital	≋	◢	3VW9011-0AH12

≋ For molded case circuit breakers with stored energy operating mechanism

◢ For molded case circuit breakers with toggle operating mechanism

System overview, page 2/64

Auxiliary release, closing coil

Auxiliary / signaling switches for toggle operating mechanisms

- Auxiliary and signaling switches are each offered in two versions:
  - Standard version for currents >100 mA and up to 400/250 V AC,
  - Minimum load above 100 mA at 24 V DC
  - Maximum breaking capacity 5 A at 250 V AC
  - Digital version for currents <100 mA for PLC connections, minimum load above 1 mA at 5 V DC, and 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.

Description	Contacts		3VA27 Article No.
Trip alarm switch TAS signals the trip position irrespective of the tripping reason	1 CO standard	–	3VW9727-0AB11
	1 CO digital	–	3VW9727-0AB13
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 CO digital	–	3VW9727-0AB43
Leading auxiliary switch S26 (2 units)	1 NO standard, 250 V AC	–	3VW9727-0AA21

Fixation for external auxiliary switches AUX 15 CO

- External auxiliary switches ON/OFF AUX 15 CO must be ordered separately.

Version		3VA27 Article No.
For fixed-mounted breakers with rear panel or floor mounting (in combination with Z option S56 or S57)		3VW9011-0AG15
For guide frames		3VW9011-0AG17

Undervoltage releases UVR

Voltage		3VA27 Article No.
24 V AC/DC		3VW9011-0AE01
30 V AC/DC		3VW9011-0AE02
48 V AC/DC		3VW9011-0AE03
60 V AC/DC		3VW9011-0AE04
110 ... 120 V AC/DC		3VW9011-0AE05
120 ... 127 V AC/DC		3VW9011-0AE06
220 ... 240 V AC/DC		3VW9011-0AE07
240 ... 250 V AC/DC		3VW9011-0AE08
380 ... 400 V AC		3VW9011-0AE17
415 ... 440 V AC		3VW9011-0AE18

External time-delay devices for undervoltage releases

- With adjustable delay time from 0.5 to 3 s.
- Suitable for mounting onto DIN rail.

Voltage		3VA27 Article No.
24 ... 30 V AC/DC		3VW9011-0AE10
48 V AC/DC		3VW9011-0AE11
60 V AC/DC		3VW9011-0AE15
110 ... 127 V AC/DC		3VW9011-0AE12
220 ... 250 V AC/DC		3VW9011-0AE13

For molded case circuit breakers with stored energy operating mechanism

For molded case circuit breakers with toggle operating mechanism

System overview, page 2/64

Locking devices and interlocks

Locking devices to prevent movement of the withdrawable circuit breakers

Version		Article No.
RONIS cylinder lock (replacement for R78)	≋ ◢	3VW9011-0BA80
Padlock 8 mm (replacement for R65), for no more than 3 padlocks	≋ ◢	3VW9011-0BA87

Locking mechanisms to prevent movement of the withdrawable circuit breakers in disconnected position

- Only possible as a supplement in conjunction with R78 (3VW9011-0BA80) and/or R65 (3VW9011-0BA87).

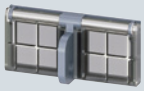
Description		Article No.
Locking mechanism (replacement for R79)	≋ ◢	3VW9011-0BA84

Locking devices in OFF position

- For fixed-mounted versions and withdrawable versions
- To prevent unauthorized activation in the operator panel (safe OFF)
- The disconnector unit fulfills the conditions for a supply disconnecting (isolating) device acc. to EN 60204-1.

Description		Article No.
Cylinder lock, made by RONIS (replacement for S08)	≋ –	3VW9011-0BA33

Locking devices in OFF position



- For fixed-mounted versions and withdrawable versions
- To prevent unauthorized activation in the operator panel (safe OFF)
- The disconnector unit fulfills the conditions for a supply disconnecting (isolating) device acc. to EN 60204-1.

Description	Version		Article No.
Padlock 4 mm (replacement for S22)	Plastic for no more than 3 locks	≋ –	3VW9011-0BA41
Padlock 7 mm (replacement for S23)	Metal for no more than 1 lock	≋ –	3VW9011-0BA42
Padlock 8 mm (replacement for S07)	Metal for no more than 2 locks	≋ –	3VW9011-0BA44

Locking devices in OFF position for toggle operating mechanisms with rotary operators

- To prevent unauthorized activation in the case of molded case circuit breakers with rotary operator

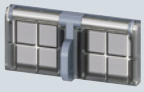
Description		Article No.
For RONIS	– ◢	3VW9727-0VL10

Locking devices in OFF position for toggle operating mechanisms without rotary operators

- To prevent unauthorized activation in the operator panel in the case of molded case circuit breakers without rotary operator

Description		Article No.
For padlocks	– ◢	3VW9727-0LB10
For RONIS	– ◢	3VW9727-0LF10

Padlockable protective covers ON/OFF on the operator panels



Description	Version		Article No.
Padlock 4 mm (replacement for S42)	Plastic for no more than 3 locks	≋ –	3VW9011-0BA22
Padlock 7 mm (replacement for S43)	Metal for no more than 1 lock	≋ –	3VW9011-0BA23
Padlock 8 mm (replacement for S44)	Metal for no more than 2 locks	≋ –	3VW9011-0BA24

≋ For molded case circuit breakers with stored energy operating mechanism

◢ For molded case circuit breakers with toggle operating mechanism

System overview, page 2/64

Locking devices and interlocks

Protective covers for mechanical ON/OFF

- Mechanical ON/OFF to protect against unintentional actuation on the operator panel.
- Not lockable.

Description			3VA27 Article No.
Not lockable (replacement for S41)	≋	–	3VW9011-0BA21

Mutual mechanical interlocking

- Mutual mechanical interlocking with Bowden cable 2 m

Fixing	Mounting			3VA27 Article No.
Fixed-mounted	Rear panel or floor mounting	≋	◢	3VW9011-0BB21
Withdrawable	Mounting onto guide frame	≋	◢	3VW9011-0BB22

Bowden cables, separate

- One required for each circuit breaker

Variant	3VA27 Article No.
1000 mm	3VW9011-0BB23
2000 mm	3WL9111-0BB45-0AA0
3000 mm	3WL9111-0BB46-0AA0

Locking mechanisms to prevent opening of the control cabinet doors in ON position

- To prevent opening of the control cabinet door in ON position
- It additionally prevents the circuit breaker from being closed when the control cabinet door is open.

Fixing	Version			3VA27 Article No.
Fixed mounting on side panel or floor	Direct fixed interlocking	≋	◢	3VW9011-0BB10
	Locking with Bowden cable	≋	◢	3VW9011-0BB16
Withdrawable	Direct fixed interlocking	≋	◢	3VW9011-0BB14
	Locking with Bowden cable	≋	◢	3VW9011-0BB18

Door sealing frames IP30

- For IP4x and higher, you must order the protective cover IP54 3VW9011-0AP03 or 3VW9011-0AP13.

Description	Fixing	Version			3VA27 Article No.
Replacement part for Z option T30.	Fixed-mounted	IP3x	≋	◢	3VW9011-0AP01
	Withdrawable	IP3x	≋	–	3VW9011-0AP02
			–	◢	3VW9011-0AP04

Protective covers IP54

- 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 and door mounted rotary operator.

Description	Version			3VA27 Article No.
Lock with unique key	IP54	≋	◢	3VW9011-0AP03
Lock with standard key	IP54	≋	◢	3VW9011-0AP13

≋ For molded case circuit breakers with stored energy operating mechanism

◢ For molded case circuit breakers with toggle operating mechanism

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3VL up to 1600 A, IEC

3VL molded case circuit breaker

Product Discontinuation

The 3VL molded case circuit breaker up to 1600 A IEC will only be able to be ordered as a spare part from 10/2020, and will be removed from the order portfolio from 10/2025.

Documents available for downloading:
You can find comprehensive information on the 3VL molded case circuit breaker in the catalog extract.

3VL molded case circuit breaker **(109769073)**

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Catalog LV 10

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