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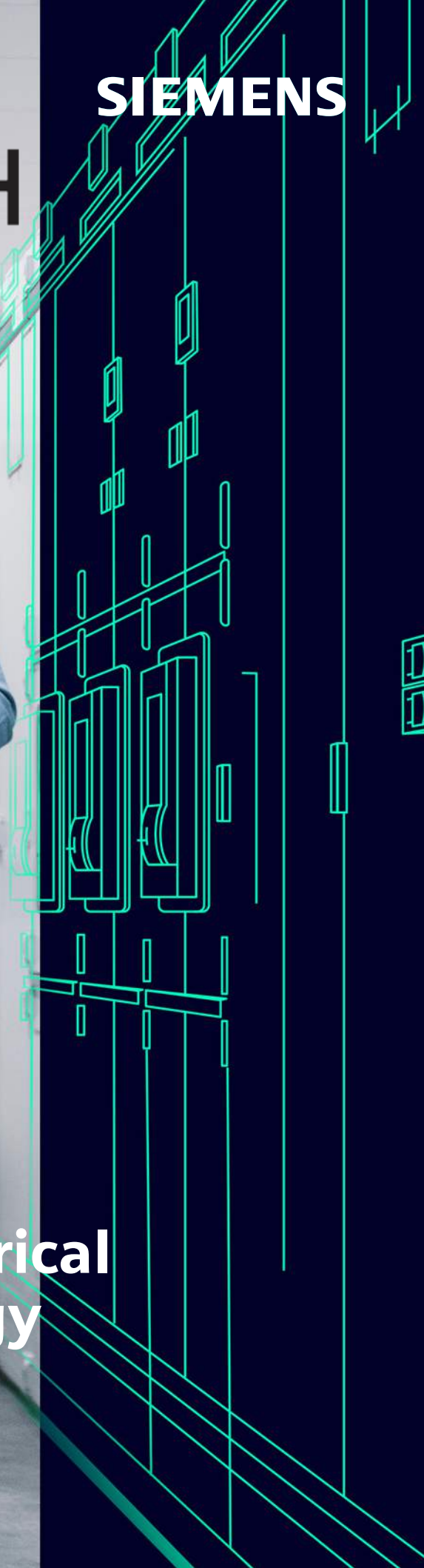
Edition
10/2023

SETRON • SIVACON • ALPHA

Low-Voltage Power Distribution and Electrical Installation Technology

Molded Case Circuit Breakers

[siemens.com/lowvoltage](https://www.siemens.com/lowvoltage)



Innovative solutions for industrial controls and power distribution

Reliable components and systems are essential in ensuring smooth power distribution in buildings and industrial plants.

With SIRIUS, SENTRON, SIVACON and ALPHA, we offer an innovative portfolio for standard-compliant and demand-oriented applications.

Efficient engineering tools and innovative cloud-based solutions can be flexibly tailored to individual requirements.

We are there when you need us

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Catalog LV 10 · 10/2023

You will find the latest edition and all future editions in SiePortal at www.siemens.com/lowvoltage/catalogs

You can find the current prices in SiePortal at
www.siemens.com/lowvoltage/product-catalog



The products and systems described in this catalog are manufactured/distributed under application of a certified quality management system in accordance with EN ISO 9001 (for the Certified Registration Nos., see www.siemens.com/system-certificates/ep). The certificate is recognized by all IQNet countries.

Technical specifications

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.

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Low-Voltage Power Distribution and Electrical Installation Technology

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A



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

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A multitude of additional information ...

Information + ordering

All the important things at a glance

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

Your product in detail

The SiePortal platform (knowledge base) provides comprehensive information

www.siemens.com/lowvoltage/product-support

- Quick Selection Guide
 - 3VA molded case circuit breaker (**109757591**)

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

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

Siemens YouTube channel

- 3VA molded case circuit breakers (general) sie.ag/2gSX4K

Everything you need for your order

Refer to SiePortal to find an overview of your products (product catalog)

- Molded case circuit breakers sie.ag/2mmLcAk

Direct forwarding to the individual products in SiePortal by clicking on the article number in the catalog or entering this web address incl. article number www.siemens.com/product_catalog_SIEP?Article No.

You will find order support in SiePortal under www.siemens.com/lowvoltage/product-support

- Order Support
 - 3VA molded case circuit breakers – One system. Global use (**109765994**)

Configurators

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

The following are additionally available for your 3VA molded case circuit breaker:

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

The fast track to the experts

Contact persons in your region

We offer a comprehensive portfolio of services.

You can find your local contacts at

www.siemens.com/lowvoltage/components/contact

You will find further information on services at

www.siemens.com/service-offers

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/support-request

... can be found in our online services

Commissioning + operation

SENTRON Powerconfig

The combined commissioning and service tool SENTRON Powerconfig for communication-capable measuring devices, circuit protection devices and circuit breakers.

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www.siemens.com/powerconfig

Free download SENTRON Powerconfig mobile via
[App Store](#) and [Play Store](#)

Your product in detail

The SiePortal platform (knowledge base) provides detailed technical information
www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Online Support app available for download from the
[App Store](#) and [Play Store](#)

You will find further information at
www.siemens.com/support-app

Provision of 3D data (step and u3d data formats)

- SiePortal (product catalog)
www.siemens.com/lowvoltage/product-catalog
- Image database
www.siemens.com/lowvoltage/picturedb

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

Manuals

Manuals can be found in SiePortal at
www.siemens.com/lowvoltage/manuals

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

Face-to-face or online training

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

- 3VA molded case circuit breaker (WT-LVA3VA)
- Protection systems in low-voltage power distribution (WT-LVAPS)

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 and switch disconnectors for all applications

2



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
- Rated current range of 1 ... 1000 A



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 communications system
- Rated current range of 25 ... 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 communications 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 ... 1600 A

Molded case circuit breakers, switch disconnectors and accessories

2



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

	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	–	■	■	■	■	■
Withdrawable version	–	–	■	■	■	–
Front mounted 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 mechanism	–	–	–	■	■	–
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

3VA1 molded case circuit breakers, switch disconnectors up to 1000 A

Technical specifications

2



		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				
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_{imp}	kV	8		8			8				
Use in IT networks (breaking capacity acc. to IEC 60947-2, annex H)	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 service 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 switching poles and circuit diagrams, see FAQ www.siemens.com/lowvoltage/product-support (109779932)

²⁾ For $I_n = 630$ A/800 A

³⁾ I_n 125 A, 160 A: $I_{cu}/I_{cs} = 36$ kA/36 kA

■ Available – Not available/not present



3VA11



3VA12



3VA13



3VA14



3VA15

2

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		
■				■			■				■				■		
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 ³⁾	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	100	150
25	36	55	70	36	55	70	36	55	70	110	36	55	70	110	55	70	85
16	25	36	40 ³⁾	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		

3VA1 molded case circuit breakers, switch disconnectors up to 1000 A

Application

2



		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 (operating cycles)				
Mechanical (CLOSE-OPEN cycles)		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 (standards and specifications acc. to IEC 60947-2, annex O)				
Rated current I_n at 50 °C ambient temperature	A	–	–	–
Service life/endurance (operating cycles)				
Mechanical (CLOSE-OPEN cycles)		–	–	–
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

**3VA11****3VA12****3VA13****3VA14****3VA15**

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
■	–	–	–	–
■	–	–	–	–
■	■	■	■	■
1 ... 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	110 at 415 V 10 at 690 V	110 at 415 V 10 at 690 V	–
2	3	6	7.6 (3P), 6 (4P)	–

3VA2 molded case circuit breakers up to 1600 A

Technical specifications

2



		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	A	25 ... 100				25 ... 160				160 ... 250						
Rated operational voltage U_e 50/60 Hz AC	V	690				690				690						
Rated insulation voltage U_i	V	800				800				800						
Rated impulse withstand voltage U_{imp}	kV	8				8				8						
Use in IT networks (breaking capacity acc. to IEC 60947-2, annex H)	V	■				■				■						
Frequency	Hz	50/60				50/60				50/60						
Breaking capacity (line protection)		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					

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

■ Available

– Not available/not present



3VA23					3VA24					3VA25			3VA26			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 ¹⁾	–	–	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 (handle operating mechanism) 183 (stored energy operating mechanism)		
137					137					253			253			225		

3VA2 molded case circuit breakers up to 1600 A

Application

2



		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	A	25 ... 100	25 ... 160	160 ... 250
Service life/endurance (operating cycles)				
Mechanical (OPEN-CLOSE cycles)		25000	25000	25000
Electrical	380 ... 415 V I_n	15000	14000	12000
	$I_n/2$	20000	20000	17000
	690 V	10500	9800	7200
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)				
Rated current I_n at 50 °C ambient temperature	A	–	25 ... 100	160 ... 200
Service life/endurance (operating cycles)				
Mechanical (CLOSE-OPEN cycles)		–	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



3VA23	3VA24	3VA25	3VA26	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	8000	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
■	■	-	-	-
■	■	■	-	-
■	■	■	-	-
■	■	■	-	-
-	-	-	-	■
-	-	-	-	■
-	-	-	-	■
-	-	-	-	■

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
Protective 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 <ul style="list-style-type: none"> Current values 	Setting and reading the parameters <ul style="list-style-type: none"> Current values Delay times 	Setting and reading the parameters <ul style="list-style-type: none"> Via display and communication Fine setting of the parameters Reading the measured values 	Setting and reading the parameters <ul style="list-style-type: none"> 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
Communications module	–	–	 COM060 communications module	 COM060 communications module
Data concentrator	–	–	 COM800/COM100 data concentrator with interface to <ul style="list-style-type: none"> PROFIBUS PROFINET Modbus RTU Ethernet (Modbus TCP) 	 COM800/COM100 data concentrator with interface to <ul style="list-style-type: none"> 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

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

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

¹⁾ 3VA10 only without N protection
 3VA11, 3VA12, 3VA13, 3VA14 without, 50% or 100% N protection
 50% N protection from $I_{n1} \geq 100$ A

Protective functions of the 3VA2 with electronic trip unit

	ETU310M I	ETU320 LI	ETU330 LIG	ETU340 ELISA®	ETU350 LSI	ETU350M LSI	ETU550 LSI	ETU550M LSI	ETU560 LSIG	ETU850 LSI	ETU860 LSIG	ETU860M LSIG
Protection												
Starter protection	■	–	–	–	–	–	–	–	–	–	–	–
Motor protection	–	–	–	–	–	■	–	■	–	–	–	■
Line protection	–	■	■	■	■	–	–	–	■	■	■	–
Generator protection	–	■	■	–	■	–	■	–	■	■	■	–
Version available with												
3-pole without external neutral conductor transformer	■	■	■	■	■	■	–	■	–	–	–	■
3-pole with external neutral conductor transformer	–	–	–	–	–	–	■	–	■	■	■	–
4-pole with protected neutral conductor transformer	–	■	■	■	■	–	■	–	■	■	■	–
Available protection parameters												
Characteristic in L range	I^2t	I^2t	I^2t	I^4t	I^2t	I^2t	I^2t	I^2t	I^2t	I^2t	I^2t	I^2t
I_r	–	■	■	■	■	■	■	■	■	■	■	■
t_r at $6 \times I_r$	–	■	■	–	■	–	■	–	■	■	■	–
t_c	–	–	–	–	–	■	–	■	–	–	–	■
t_p	–	–	–	–	–	–	–	■	–	–	–	■
Thermal memory	■	■	■	■	■	■	■	■	■	■	■	■
Thermal memory can be switched on/off	–	–	–	–	–	–	■	–	■	–	■	–
I_{sd}	–	–	–	–	■	■	■	■	■	■	■	■
t_{sd} at $8 \times I_r$	–	–	–	–	■	■	■	■	■	■	■	■
Characteristic in S range: I^2t_{sd}	–	–	–	–	■	–	–	–	■	■	■	–
Characteristic in S range: selectable I^2t_{sd}/t_{sd}	–	–	–	–	–	–	–	–	■	–	■	–
I_i	■	■	■	■	■	■	■	■	■	■	■	■
I_N ¹⁾	–	■	■	■	■	–	■	–	■	■	■	–
I_g	–	–	■	–	–	–	–	–	■	–	■	■
t_g at $2 \times I_g$	–	–	■	–	–	–	–	–	■	–	■	■
Characteristic in G range: I^2t_g	–	–	–	–	–	–	–	–	■	–	■	■
Characteristic in G range: selectable I^2t_g/t_g	–	–	–	–	–	–	–	–	■	–	■	■
Ground-fault alarm function	–	–	–	–	–	–	–	–	■	–	■	■
Blocking protection	–	–	–	–	–	–	–	–	–	–	–	■
ZSI in combination with an EFB external function box	–	■	■	■	■	■	■	■	■	■	■	■

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

Online configurator highlights

www.siemens.com/lowvoltage/configurators

Search function with global direct input

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

The screenshot shows the Siemens website header with the logo and navigation links: Log in, Additional actions, Support, and Language. Below the header, the page title is "Configurators for Low-voltage". A search bar contains the text "Search for (e.g. 3WL1110-4EB36-6EQ8-Z A05+80...". Below the search bar, there are two numbered steps: "1 Select Type of Product" and "2 Select Category".

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

List of products

The screenshot shows the "List of products" section. It includes a "Projectdata" input field and a "Load product list" button. Below this is an "Actions" dropdown menu. The main content is a table with columns: No., Article, Quantity, Unit price, and Documents. Two products are listed:

No.	Article	Quantity	Unit price	Documents
1	3WL1106-2EB62-1AA2 Fixed-mounted circuit breaker 3-pole, Size 1, IEC In=630 A to 690 V, 50/60 Hz AC Icu=55 kA at 500 V Rear horizontal connection Overcurrent release ETU 45 LSIN protection adjustable 0.4-1 in with cubicle bus Opt...	1	on request	> all documents for position
2	3VA2450-6KP32-0AA0 3VA molded case circuit breaker circuit breaker 3VA2 IEC frame 630 breaking capacity class H Icu=85kA @ 415V 3-pole, line protection ETU850, LSI, In=500A overload protection Ir=200A...500A short-circuit protection Ird=0.6..10x In,...	1	on request	> all documents for position

Recall of completed configurations for modification or additional configuration

List of products

The screenshot shows the "List of products" section, similar to the previous one. In this version, a "Duplicate Configuration" button is visible next to the second product entry in the table.

Responsive Design

The screenshot shows the Siemens website header and the "Configurators for Low-voltage" section. The search bar contains the same text as in the previous screenshots. Below the search bar, there are two numbered steps: "1 Select Type of Product" and "2 Select Category". Under "1 Select Type of Product", there are three options: "MCCB - molded case circuit breaker", "ACB - air circuit breaker", and "Additional products".

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

Visualization of the internally mountable accessories (slot assignment)

The configuration is complete. You can order this product.

Basic configuration | Trip units | Type of mounting | Connection technology | Auxiliary release/auxiliary switch | Mountable accessories | Result | CAD/CAM

2019_08.02


Assembly option

Field Assembly

Auxiliary release

- Shunt trip left (STL)
 - 110-127 V AC SO6D tri / DC
- Shunt trip left (STL EB)
 - None
- Under-voltage release (UVR)
 - None
- Universal release (UR)
 - None

Slot assignment



Accessory switch/alarm switch (changeover contact) - Form C

Accessory switch type HP

- AUX auxiliary switch
- LCS leading auxiliary switch

Accessory switch type HQ

- AUX auxiliary switch
- AUX auxiliary switch, suitable for electronic circuits
- LCS leading auxiliary switch
- LCS leading auxiliary switch, suitable for electronic circuits

Alarm switch type HP

- EAS alarm switch

Alarm switch type HQ

- EAS alarm switch
- EAS alarm switch, suitable for electronic circuits
- EAS electrical alarm switch
- EAS electrical alarm switch, suitable for electronic circuits

Download of the individual edz files for 3VA

The configuration is complete. You can order this product.

Basic configuration | Trip units | Type of mounting | Connection technology | Auxiliary release/auxiliary switch | Mountable accessories | Result | CAD/CAM


2019_08.02

Selection

- Assembly drawing
- 3VA molded case circuit breaker

Preview

3D view | Unit Wiring Diagram IEC | Dimension drawing | Area Model View | Wire frame view



Download - all CAD formats

Here: Area Model View

View options: Unselected

File type: Binnmap (*.bmap)

Start generation

Download - all documents

- Open Documents dialog

Documentation and reporting

Choose languages for the data sheet: deutsch

Project data for the datasheet

Download selection of document types

- Datasheets (PDF)
- EPLAN Macro (EDZ)

Selection of download format

All in a ZIP file

Start generation

Component documentation

- 3VA molded case circuit breaker (3VA250-7MQ32-0A02)
- Datasheet (PDF)
- EPLAN Macro (EDZ)

© Siemens AG | Application information

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

Die Konfiguration ist vollständig, das Bestellen ist jetzt möglich.

Grundkonfiguration | Auslöser | Einbauart | Hauptleiterschleuse | Hilfs-/Stein-schalter | Anbaubares Zubehör | Ergebnis | CAD/CAE


2019_04.07

Auswahl

- Assembly drawing
- 3VA Kompaktschalterschalter
- Kommunikation
- Hauptleiteranschluss
- Hauptleiteranschlusszubehör
- Hauptleiteranschlusszubehör
- Aufbauart
- Hilfs-/Stein-schalter
- Anbaubares Zubehör

Vorschau

Drahtplanansicht | Gerüstschaltplan IEC | Maßstabs | 3D-Ansicht | Flächenansicht



Download - alle CAD-Formate

Ansicht: Flächenansicht

Ansichtoption: Drahtschaltplan

Datentyp: Binnmap (*.bmap)

Generierung starten

Download - alle Dokumente

- Dokumenten Dialog öffnen

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

2

Molded case circuit breakers and switch disconnectors



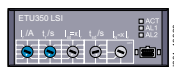
3VA1 for standard applications

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



Communications module



Data concentrator



External display



Test device

Type of mounting



Fixed-mounted



Withdrawable 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



Bus connectors



Bus connectors broadened



Circular conductor terminals



Box terminals



Nut keeper kits, right-angled

Connection accessories

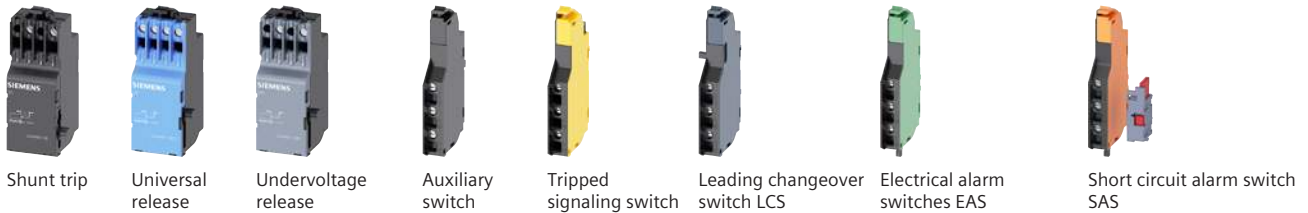


Insulation accessories

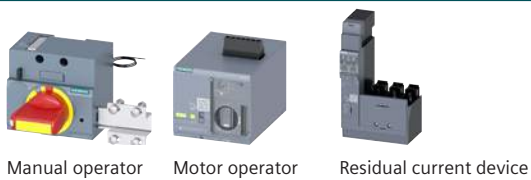
Note:

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

Auxiliary releases/auxiliary switches



Mountable accessories



Additional circuit breaker accessories



Mechanical interlocking mechanisms

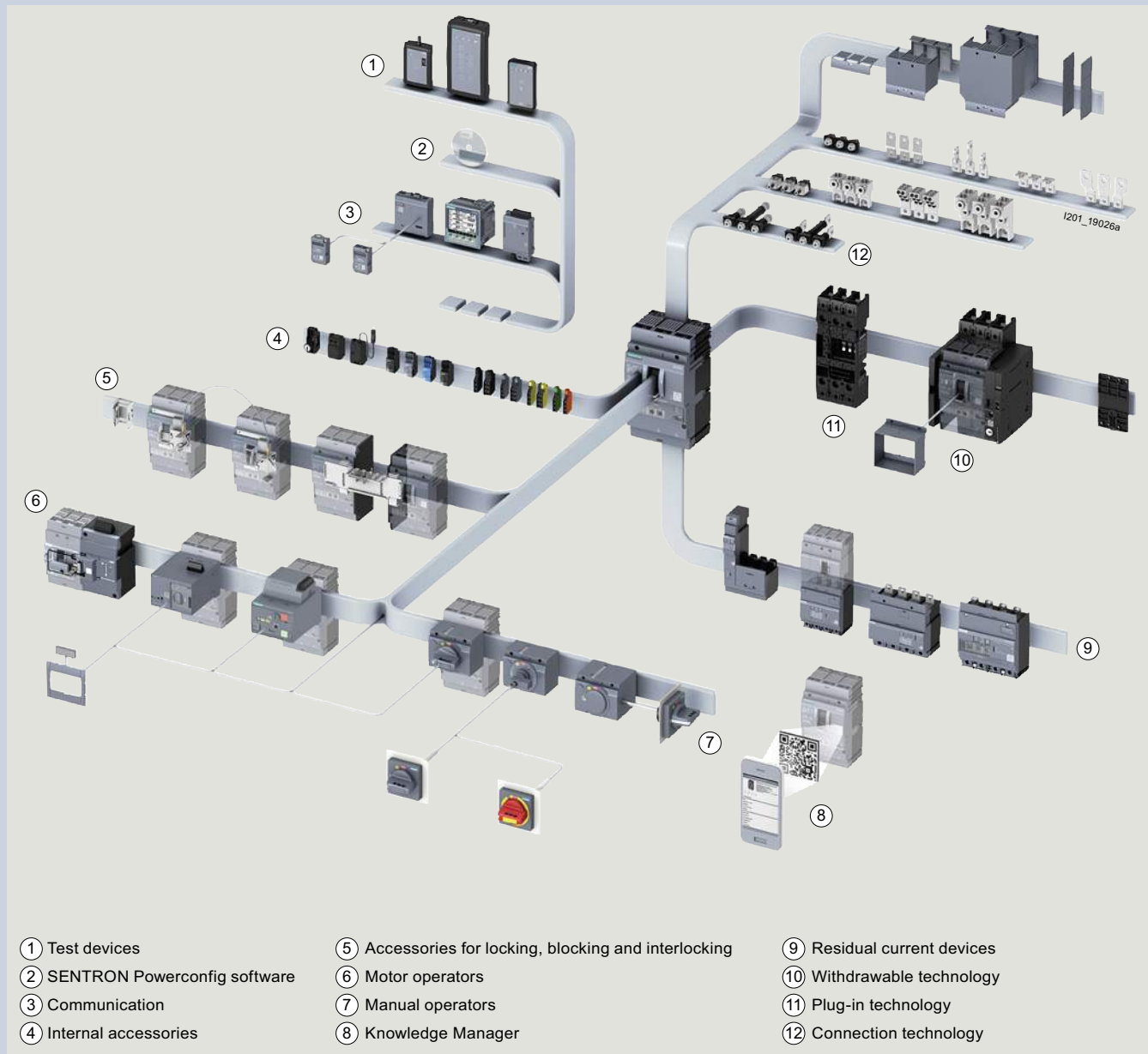


Note:

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

System overview

2



① Test devices

② SENTRON Powerconfig software

③ Communication

④ Internal accessories

⑤ Accessories for locking, blocking and interlocking

⑥ Motor operators

⑦ Manual operators

⑧ Knowledge Manager

⑨ Residual current devices

⑩ Withdrawable technology

⑪ Plug-in technology

⑫ Connection technology

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

2

		3VA											4	5	6	7	8	9	10	11	12	- 0AA0			
Trip units		Thermal-magnetic											1	Electronic											
		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 $I_{n \max}$	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⁾	■	-	-	-	-	1	6								
		200 A	-	-	■	-	-	-	-	-	-	-	-	-	-	2	0								
		250 A	-	-	■	-	-	-	-	-	■ ¹⁾	■	-	-	-	2	5								
	320 A	-	-	-	■	-	-	-	-	-	-	-	-	-	3	2									
	400 A	-	-	-	■	-	-	-	-	-	■ ¹⁾	■ ²⁾	-	-	4	0									
	500 A	-	-	-	-	■	-	-	-	-	-	■ ²⁾	-	-	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	-	-	-	-	-	-	-	-	-	■	■ ²⁾	-	4	0									
500 A		-	-	-	-	-	-	-	-	-	-	■ ²⁾	-	5	0										
630 A		-	-	-	-	-	-	-	-	-	-	■	■	6	3										
800 A		-	-	-	-	-	-	-	-	-	-	-	■	8	0										
1000 A		-	-	-	-	-	-	-	-	-	-	-	■	1	0										
1250 A		-	-	-	-	-	-	-	-	-	-	-	■	1	2										
Switch disconnecter		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											

¹⁾ Rated current not available with ETU340 ELISA LI
²⁾ With ETU 5-series and 8-series, utilization category B and ETU340 ELISA LI only

		3VA														- 0AA0			
		4	5	6	7	8	9	10	11	12									
		3VA10	3VA11	3VA12	3VA13	3VA14	3VA15	3VA20	3VA21	3VA22	3VA23	3VA24	3VA25	3VA26					
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			
Protective function thermal-magnetic	No protection	-	■	■	■	■	-	-	-	-	-	-	-	-	SD100	-	A		
	Line protection	■	■	-	-	-	-	-	-	-	-	-	-	-	TM210	FTFM	D		
		-	■	■	■	■	■	-	-	-	-	-	-	-	TM220	ATFM	E		
		-	■	■	■	■	■	-	-	-	-	-	-	-	TM240	ATAM	F		
Protective 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			
Protective 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
		-	-	-	-	-	-	■	■	■	■	■	-	-	ETU850	LSI	(N) ³⁾	K	P
	Line and generator protection, with display, with metering function	-	-	-	-	-	-	■	■	■	■	■	■	■	ETU860	LSIG	(N) ³⁾	K	Q
Number of poles	1-pole	Line protection	-	■ ⁴⁾	-	-	-	-	-	-	-	-	-	-					1
	2-pole	Line protection	-	■ ⁴⁾	-	-	-	-	-	-	-	-	-	-					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

⁴⁾ For TM210 only

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

2

		3VA										4	5	6	7	8	9	10	11	12	-	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 $I_{n\ max}$	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											
	110 kA	-	-	■	■	■	■	■	■	■	■	7											
	200 kA	-	-	-	-	-	■	■	■	■	■	0											

		3VA										- 0AA0					
		4	5	6	7	8	9	10	11	12							
		3VA11	3VA12	3VA13	3VA14	3VA15	3VA21	3VA22	3VA23	3VA24	3VA25						
Protective function thermal-magnetic	Starter protection	■	-	-	-	-	-	-	-	-	-	TM110M	FM	M	G		
		■	■	■	■	■	-	-	-	-	-	TM120M	AM	M	H		
Protective 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 terminals	Starter protection	■	-	-	-	-	■	-	-	-	-					6
		Motor protection	-	-	-	-	-	■	-	-	-	-					6

2

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

2

3VA20
3VA21
3VA22
3VA23
3VA24
3VA25
3VA26

3VA10

3VA11

3VA12

3VA13

3VA14

3VA15

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 max (IEC 60947-5-1)	U_e AC/DC (IEC 60947-5-1)	Version					
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 molded case circuit breaker trips



Type	Width	I_e max (IEC 60947-5-1)	U_e AC/DC (IEC 60947-5-1)	Version					
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 max (IEC 60947-5-1)	U_e AC/DC (IEC 60947-5-1)	Version					
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 max (IEC 60947-5-1)	U_e AC/DC (IEC 60947-5-1)	Version					
HQ	7 mm (1 slot)	6 A	240 V/250 V	Standard	–	3VA9988-0AB32	3VA9988-0AB34	–	–
		< 1 A	24 V/24 V	Electronic-compatible	–	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 max (IEC 60947-5-1)	U_e AC/DC (IEC 60947-5-1)	Version					
HQ	7 mm (1 slot)	6 A	240 V/250 V	Standard	–	–	–	–	3VA9988-0AB22
		< 1 A	24 V/24 V	Electronic-compatible	–	–	–	–	3VA9988-0AB23

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

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			3VA10	3VA11	3VA12	3VA13	3VA14	3VA15	3VA20	3VA21	3VA22	3VA23	3VA24	3VA25	3VA26		
Shunt trips left STL																	
	<ul style="list-style-type: none"> Used for remote-controlled tripping of the molded case circuit breaker Have particularly low power consumption Especially suitable for electrical interlocking in the EI variant¹⁾ 																
	Version	U_e 50/60 Hz AC	U_e DC														
	Standard	–	12 V		3VA9988-OBL10												
		24 V	24 ... 30 V		3VA9988-OBL30												
		48 ... 60 V	48 ... 60 V		3VA9988-OBL31												
		110 ... 127 V	110 ... 127 V		3VA9988-OBL32												
		208 ... 277 V	220 ... 250 V		3VA9988-OBL33												
		380 ... 600 V	–		3VA9988-OBL20												
	Electrical (EI)	–	24 V		3VA9988-OBM10												
Shunt trips flexible STF																	
	<ul style="list-style-type: none"> 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-OBA20	–
	48 ... 60 V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3VA9988-OBA21	–
	110 ... 127 V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3VA9988-OBA22	–
	208 ... 277 V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3VA9988-OBA23	–
	380 ... 500 V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3VA9988-OBA24	–
	600 V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3VA9988-OBA25	–
Universal releases UNI																	
	<ul style="list-style-type: none"> 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																	
	<ul style="list-style-type: none"> Trip the molded case circuit breaker in the event that the rated operational 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	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3VA9988-0BF21
	230 V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3VA9988-0BF22
	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3VA9988-0BF23






¹⁾ In combination with TAS and AUX. For circuit diagrams, see the operating instructions

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

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			3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26	
Front mounted rotary operators								
<ul style="list-style-type: none"> Handle For IEC Degree of protection IP30 For 3-pole and 4-pole breakers 								
			3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26	
	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							
<ul style="list-style-type: none"> Shaft 300 mm (325 mm for 3VA15/3VA25/3VA26) With mounting tolerance compensation Handle with masking plate 75 × 75 mm (100 × 100 mm for 3VA15/3VA25/3VA26) Degree of protection IP65 For 3-pole and 4-pole breakers 								
			3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26	
	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
	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
	Door mounted rotary operators without tolerance compensation							
<ul style="list-style-type: none"> Shaft 300 mm (325 mm for 3VA15/3VA25/3VA26) Handle with masking plate 75 × 75 mm (100 × 100 mm for 3VA15/3VA25/3VA26) Degree of protection IP65 For 3-pole and 4-pole breakers 								
			3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26	
	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								
<ul style="list-style-type: none"> For IEC Degree of protection IP30 For 3-pole and 4-pole breakers 								
			3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26	
	Version	Illumination kit	Door interlock					
	With shaft stub (gray)	–	Without	3VA9157-0GK00	3VA9257-0GK00	3VA9267-0GK00	3VA9467-0GK00	3VA9687-0GK00




			3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26
Side wall mounted rotary operators							
	<ul style="list-style-type: none"> 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					
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 bracket							
	<ul style="list-style-type: none"> Rotary operator with short shaft and mounting bracket 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					
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 rail for N/PE terminals							
	Version	Rated current					
	For mounting bracket	≤ 250 A	3VA9987-0GL30	3VA9987-0GL30	3VA9987-0GL30	–	–
Auxiliary switch modules for rotary operator							
	Version						
	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						
	Necessary accessories for 3VA side wall mounted rotary operators, if 3VA9...-0GX.0 auxiliary switch modules are used		3VA9257-0GX01	3VA9257-0GX01	3VA9467-0GX01	–	–

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

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	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26
Supplementary handles for door mounted rotary operators					
	<ul style="list-style-type: none"> For operation when control 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					
	<ul style="list-style-type: none"> With masking plate 				
Version					
Standard (gray)	Tolerance compensation				
	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 lever extensions					
	<ul style="list-style-type: none"> Note: The handle lever extension is already included in the scope of supply of the breakers. 				
				3VA9487-0SC10	3VA9987-0SC10
Shafts					
	Type	Length			
	8 × 8 mm	300 mm	8UD1900-2WA00		–
		600 mm	8UD1900-2WB00		–
	12 × 12 mm	300 mm	–	–	–
600 mm		–	–	–	8UD1900-4WB00
Adapters for shafts					
	Type	Use			
	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					
	Type				
	8 × 8 mm		8UD1900-2HA00		–
	12 × 12 mm		–	–	8UD1900-4HA00

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

Manual operators

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					3VA20	
					3VA21	
					3VA22	
	3VA10		3VA13		3VA23	3VA25
	3VA11		3VA14		3VA24	3VA26
	3VA12			3VA15		

Labeling plates for manual operators



3VA9087-05X10

Illumination kits for manual operators



- 24 V DC voltage

Version	Rated current					
Front mounted 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



Use	Key					
For door mounted rotary operator and side wall mounted rotary operator (in the masking plate), only for locking, not for interlocking	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



Use	Key					
For door mounted rotary operator and side wall mounted rotary operator (in the masking plate), only for locking, not for interlocking	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 on the circuit breaker side 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), on circuit breaker side, NOT in masking plate

Rated current					
100 ... 630 A	3VA9980-0LF20	3VA9980-0LF20	–	3VA9980-0LF20	–
1000 A	–	–	3VA9680-0LF20	–	3VA9680-0LF20

Motor operators

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Side mounted motor operators without stored energy mechanisms (MO310)



- Cover size 45 mm

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

Motor operators without stored energy mechanisms (MO320)



Addressable via control signals	Isolating features in accordance with IEC/EN 60947-1	Make time, typically		Break time, typically		Rated operational power
		For 3VA1	For 3VA2	For 3VA1	For 3VA2	
■	■	< 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)

Spare parts kit for MO320

Scope of supply
Mounting plate, plug

Motor operators with stored energy mechanisms (SEO520)



- Synchronizable motor operator with optional communications interface
- Up to 3VA22 (250 A), it 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 communications 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		Break time, typically		Rated operational power
		For 3VA1	For 3VA2	For 3VA1	For 3VA2	
■	■	< 80 ms (400 A, 630 A)	< 80 ms (100 A ... 630 A)	< 5 s (400 A, 630 A)	< 80 ms (100 A ... 250 A) < 5 s (400 A, 630 A)	300 W, max. 500 W (60 ms)

Spare parts kit for SEO520

Scope of supply
Mounting plate, plug

Spare parts kit for SEO520 with communication

Scope of supply
Mounting plate, plug, SLC adapter

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 up to 250 A	3VA9980-0LF30

Cylinder locks (type RONIS)



- Includes a lock with 2 keys
- To locking the operating mode (Manual/Auto/Lock) for SEOs up to 250 A

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

		3VA10	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	3VA9467-0HA10
110 V AC	–	–	–	–	3VA9267-0HA21 ¹⁾	3VA9467-0HA21 ¹⁾	3VA9467-0HA21 ¹⁾
110 ... 230 V AC, 110 ... 250 V DC	–	–	3VA9157-0HA20	3VA9257-0HA20	3VA9267-0HA20	3VA9467-0HA20	3VA9467-0HA20
230 V AC	–	–	–	–	3VA9267-0HA22 ¹⁾	3VA9467-0HA22 ¹⁾	3VA9467-0HA22 ¹⁾
		–	3VA9157-0HA00	3VA9257-0HA00	3VA9267-0HA00	3VA9467-0HA00	3VA9467-0HA00
Rated control supply voltage	With communication						
24 V DC	–	–	–	–	3VA9267-0HC10	3VA9467-0HC10 ²⁾	
42 ... 60 V AC/DC	–	–	–	–	3VA9267-0HC20	3VA9467-0HC20 ²⁾	
110 ... 230 V AC, 110 ... 250 V DC	–	–	–	–	3VA9267-0HC30	3VA9467-0HC30 ²⁾	
24 V DC	Yes	–	–	–	3VA9267-0HC15	–	3VA9467-0HC15 ²⁾
110 ... 230 V AC, 110 ... 250 V DC	Yes	–	–	–	3VA9267-0HC35	–	3VA9467-0HC35 ²⁾
		–	–	–	3VA9267-0HC00	–	–
		–	–	–	3VA9267-0HC05	–	–

¹⁾ Optimized for long control cable lengths, see FAQ at www.siemens.com/lowvoltage/product-support (109804710)

²⁾ For 3VA13 and 3VA14 (IEC) with product version < *E04* and for 3VA23 and 3VA24 (IEC) with product version < *E06*, the service life (mechanical operating cycles) of the molded case circuit breaker is reduced when the SEO520 is used. For newer product versions, this is not the case. We recommend upgrading the circuit breaker to a higher product version, if necessary.



Reset mode

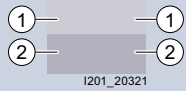
All motor operators have the following reset modes:

- 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

Connection technology





- ① For mounting onto the circuit breaker
② For mounting on plug-in and withdrawable units

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Box terminals

	Connection options		Scope of supply	Cable cross-section, copper stranded	Terminal short designation
	①	②			
	①	②	3 single terminals	1.5 ... 70 mm ²	TS1.1
				6 ... 120 mm ²	TS1.2
				25 ... 185 mm ²	TS1.4
				50 ... 185 mm ²	TS1.3
				35 ... 300 mm ²	TS1.5
	①	②	4 single terminals	1.5 ... 70 mm ²	TS1.1
				6 ... 120 mm ²	TS1.2
				25 ... 185 mm ²	TS1.4
				50 ... 185 mm ²	TS1.3
				35 ... 300 mm ²	TS1.5

Nut keeper kits

	Connection options		Scope of supply	Max. tap width	Max. tap thickness
	①	②			
	①	②	3 terminals	17 mm	6.5 mm
				25 mm	8 mm
				35 mm	10 mm
				Nut keeper kit for 3-pole breakers, 1 terminal cover	50 mm
	①	②	4 terminals	17 mm	6.5 mm
				25 mm	8 mm
				35 mm	10 mm
				Nut keeper kit for 4-pole breakers, 1 terminal cover	50 mm

Circular conductor terminals, 1 cable

	Connection options		Scope of supply	Cable cross-section	Copper/aluminum stranded ¹⁾		Terminal short designation
	①	②			Cu	Al ²⁾	
	①	②	3 single terminals	1.5 ... 10 mm ²	■	–	TA1.0
				1.5 ... 50 mm ²	■	–	TA1.3
				10 ... 95 mm ²	■	■	TA1.1
				16 ... 185 mm ²	■	■ ³⁾	TA1.4
				35 ... 185 mm ²	■	■	TA1.2
				50 ... 300 mm ²	■	■	TA1.5
	①	②	4 single terminals	1.5 ... 10 mm ²	■	–	TA1.0
				1.5 ... 50 mm ²	■	–	TA1.3
				10 ... 95 mm ²	■	■	TA1.1
				16 ... 185 mm ²	■	■ ³⁾	TA1.4
				35 ... 185 mm ²	■	■	TA1.2
				50 ... 300 mm ²	■	■	TA1.5

¹⁾ All circular conductor terminals tested according to UL 486 A/B for Cu and Al cables

²⁾ Al cable tested according to IEC 60947-2 annex D

³⁾ Use antioxidants

⁴⁾ Maximum current-carrying capacity of cable connection 400 A
Flexible copper bar: No restrictions

⁵⁾ Maximum current-carrying capacity of copper cables 380 A
Maximum current-carrying capacity of aluminum cables 310 A

3VA10 3VA11	3VA12	3VA20 3VA21	3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25
3VA9153-OJA11	–	–	–	–	–
–	3VA9253-OJA11	3VA9163-OJA12	3VA9163-OJA12	–	–
–	–	3VA9263-OJA12	3VA9263-OJA12	–	–
–	3VA9253-OJA12	–	–	–	–
–	–	–	–	3VA9483-OJA13 ⁴⁾	–
3VA9154-OJA11	–	–	–	–	–
–	3VA9254-OJA11	3VA9164-OJA12	3VA9164-OJA12	–	–
–	–	3VA9264-OJA12	3VA9264-OJA12	–	–
–	3VA9254-OJA12	–	–	–	–
–	–	–	–	3VA9484-OJA13 ⁴⁾	–
3VA9113-OQA00	–	–	–	–	–
–	3VA9213-OQA00	3VA9203-OQA00	3VA9203-OQA00	–	–
–	–	–	–	3VA9403-OQA00	–
–	–	–	–	–	3VA9603-OQA00
3VA9114-OQA00	–	–	–	–	–
–	3VA9214-OQA00	3VA9204-OQA00	3VA9204-OQA00	–	–
–	–	–	–	3VA9404-OQA00	–
–	–	–	–	–	3VA9604-OQA00
3VA9113-OJB10	–	–	–	–	–
–	–	3VA9103-OJB11	3VA9103-OJB11	–	–
3VA9113-OJB11	–	–	–	–	–
–	–	3VA9263-OJB12	3VA9263-OJB12	–	–
–	3VA9253-OJB12	–	–	–	–
–	–	–	–	3VA9383-OJB13 ⁵⁾	–
3VA9114-OJB10	–	–	–	–	–
–	–	3VA9104-OJB11	3VA9104-OJB11	–	–
3VA9114-OJB11	–	–	–	–	–
–	–	3VA9264-OJB12	3VA9264-OJB12	–	–
–	3VA9254-OJB12	–	–	–	–
–	–	–	–	3VA9384-OJB13 ⁵⁾	–

Connection technology



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- ① For mounting onto the circuit breaker
② For mounting on plug-in and withdrawable units

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Circular conductor terminals with control wire taps, 1 cable³⁾

	Connection options		Scope of supply	Cable cross-section	Copper/aluminum stranded ¹⁾		Terminal short designation
	①	②			Cu	Al ²⁾	
	①	②	3 single terminals	1.5 ... 10 mm ²	■	–	TA1.0
				1.5 ... 50 mm ²	■	–	TA1.3
				10 ... 95 mm ²	■	■	TA1.1
				16 ... 185 mm ²	■	■ ³⁾	TA1.4
				50 ... 185 mm ²	■	■	TA1.2
				50 ... 300 mm ²	■	■	TA1.5
	①	②	4 single terminals	1.5 ... 10 mm ²	■	–	TA1.0
				1.5 ... 50 mm ²	■	–	TA1.3
				10 ... 95 mm ²	■	■	TA1.1
				16 ... 185 mm ²	■	■ ³⁾	TA1.4
				50 ... 185 mm ²	■	■	TA1.2
				50 ... 300 mm ²	■	■	TA1.5

Circular conductor terminals, 2 cables

	Connection options		Scope of supply	Cable cross-section	Copper/aluminum stranded ¹⁾		Control wire tap ⁴⁾	Terminal short designation
	①	②			Cu	Al ²⁾		
	①	②	3 single terminals, 1 short terminal cover	120 ... 300 mm ²	■	■	No	TA3.1
							Yes	TA3.1
	①	②	4 single terminals, 1 short terminal cover	120 ... 300 mm ²	■	■	No	TA3.1
							Yes	TA3.1

Circular conductor terminals, 3 cables

	Connection options		Scope of supply	Cable cross-section	Copper/aluminum stranded ¹⁾		Control wire tap ⁴⁾	Terminal short designation
	①	②			Cu	Al ²⁾		
	①	②	3 single terminals, 1 short terminal cover	120 ... 185 mm ²	■	■	No	TA3.2
							Yes	TA3.2
	①	②	4 single terminals, 1 short terminal cover	120 ... 185 mm ²	■	■	No	TA3.2
							Yes	TA3.2

Control wire taps for box terminals³⁾

Connection options	
①	
②	

Control wire taps for busbars³⁾

Connection options	
①	
②	

¹⁾ All circular conductor terminals tested according to UL 486 A/B for Cu and Al cables

²⁾ Al cable tested according to IEC 60947-2 annex D

³⁾ Use antioxidants

⁴⁾ Maximum current-carrying capacity 15 A
Maximum cable connection up to 2.5 mm²

⁵⁾ Maximum current-carrying capacity of copper cables 380 A
Maximum current-carrying capacity of aluminum cables 310 A

3VA10 3VA11		3VA12	3VA20 3VA21	3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25
3VA9113-0JG10	–	–	–	–	–	–
–	–	–	3VA9103-0JG11	3VA9103-0JG11	–	–
3VA9113-0JG11	–	–	–	–	–	–
–	–	–	3VA9263-0JG12	3VA9263-0JG12	–	–
–	3VA9253-0JG12	–	–	–	–	–
–	–	–	–	–	3VA9383-0JG13 ⁵⁾	–
3VA9114-0JG10	–	–	–	–	–	–
–	–	–	3VA9104-0JG11	3VA9104-0JG11	–	–
3VA9114-0JG11	–	–	–	–	–	–
–	–	–	3VA9264-0JG12	3VA9264-0JG12	–	–
–	3VA9254-0JG12	–	–	–	–	–
–	–	–	–	–	3VA9384-0JG13 ⁵⁾	–
–	–	–	–	–	–	3VA9503-0JB23
–	–	–	–	–	–	3VA9503-0JG23
–	–	–	–	–	–	3VA9504-0JB23
–	–	–	–	–	–	3VA9504-0JG23
–	–	–	–	–	–	3VA9503-0JB32
–	–	–	–	–	–	3VA9503-0JG32
–	–	–	–	–	–	3VA9504-0JB32
–	–	–	–	–	–	3VA9504-0JG32
3VA9110-0WB00	3VA9200-0WB00	3VA9200-0WB00	3VA9200-0WB00	3VA9480-0WB00	–	–
3VA9150-0WB00	3VA9280-0WB00	3VA9280-0WB00	3VA9280-0WB00	3VA9480-0WB00	–	–
3VA9110-0WC00	3VA9200-0WC00	3VA9200-0WC00	3VA9200-0WC00	3VA9480-0WC00	–	–
3VA9150-0WC00	3VA9280-0WC00	3VA9280-0WC00	3VA9280-0WC00	3VA9480-0WC00	–	–

Connection technology



- ① For mounting onto the circuit breaker
② For mounting on plug-in and withdrawable units

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Note:

All bus connectors, bus connectors broadened and rear connections are Cu/Sn 6 r plated according to ISO 2093.

Front bus connectors



Number of poles	Connection options	Scope of supply	Max. tap width	Max. tap thickness
1P	① –	1 terminal	22 mm	8 mm
3P	– ②	3 terminals	6 x 50 mm	8 mm

Front bus connectors, with phase barriers

- 3-pole and 4-pole bus connectors only permitted if used with phase barriers!
- Phase barriers are included in the connection technology scope of supply or can be ordered as a spare part (3VA9...-WA00).



Number of poles	Connection options	Scope of supply	Max. tap width	Max. tap thickness
3P	① ②	3 terminals,	22 mm	8 mm
		2 phase barriers	32 mm	10 mm
			40 mm	12.5 mm
			50 mm	30 mm
		3 short terminals, ¹⁾	50 mm	30 mm
		2 phase barriers		



4P	① ②	4 terminals,	22 mm	8 mm
		3 phase barriers	32 mm	10 mm
			40 mm	12.5 mm
			50 mm	30 mm
			4 short terminals, ¹⁾	50 mm
		3 phase barriers		

Bus connectors edgewise, with phase barriers

- 3-pole and 4-pole bus connectors only permitted if used with phase barriers!
- Phase barriers are included in the connection technology scope of supply or can be ordered as a spare part (3VA9...-WA00).



Number of poles	Connection options	Scope of supply	Max. tap width	Max. tap thickness
3P	① ②	3 terminals,	20 mm	6 mm
		2 phase barriers	25 mm	7 mm
			40 mm	8 mm



4P	① ②	4 terminals,	20 mm	6 mm
		3 phase barriers	25 mm	7 mm
			40 mm	8 mm

Front bus connectors broadened, with phase barriers

- 3-pole and 4-pole bus connectors broadened only permitted if used with phase barriers!
- Phase barriers are included in the connection technology scope of supply or can be ordered as a spare part (3VA9...-WA00).
- 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	① ②	3 terminals,	30 mm	8 mm
		2 phase barriers	35 mm	10 mm
			60 mm	12.5 mm
			80 mm	10 mm



		– ②	3 terminals,	80 mm	15 mm
			2 phase barriers		
4P	① ②	4 terminals,	30 mm	8 mm	
		3 phase barriers	35 mm	10 mm	
			60 mm	12.5 mm	
			80 mm	10 mm	

¹⁾ Bus connectors short for use with terminal covers

3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	3VA26
3VA9151-0QB00	-	-	-	-	-
-	-	-	-	3VA9603-0QB01	-
3VA9153-0QB00	-	-	-	-	-
-	3VA9253-0QB00	3VA9263-0QB00	-	-	-
-	-	-	3VA9483-0QB00	-	-
-	-	-	-	3VA9603-0QB00	-
-	-	-	-	3VA9603-0QB02	-
3VA9154-0QB00	-	-	-	-	-
-	3VA9254-0QB00	3VA9264-0QB00	-	-	-
-	-	-	3VA9484-0QB00	-	-
-	-	-	-	3VA9604-0QB00	-
-	-	-	-	3VA9604-0QB02	-
3VA9153-0QD00	-	-	-	-	-
-	3VA9253-0QD00	3VA9263-0QD00	-	-	-
-	-	-	3VA9483-0QD00	-	-
3VA9154-0QD00	-	-	-	-	-
-	3VA9254-0QD00	3VA9264-0QD00	-	-	-
-	-	-	3VA9484-0QD00	-	-
3VA9153-0QC00	-	-	-	-	-
-	3VA9253-0QC00	3VA9263-0QC00	-	-	-
-	-	-	3VA9483-0QC00	-	-
-	-	-	-	3VA9603-0QC00	-
-	-	-	-	3VA9603-0QC01	3VA9603-0QC01
3VA9154-0QC00	-	-	-	-	-
-	3VA9254-0QC00	3VA9264-0QC00	-	-	-
-	-	-	3VA9484-0QC00	-	-
-	-	-	-	3VA9604-0QC00	-

Connection technology





- ① For mounting onto the circuit breaker
 ② For mounting on plug-in and withdrawable 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, bus connectors broadened and rear connections are Cu/Sn 6 r plated according to ISO 2093.



Nut keeper kits, right-angled¹⁾

	Number of poles	Connection options		Scope of supply	Max. tap width	Max. tap thickness
	3P	①	②	3 terminals, 2 phase barriers	22 mm	8 mm
			–	–	32 mm	10 mm
			–	–	40 mm	12.5 mm
	4P	①	②	4 terminals, 3 phase barriers	22 mm	8 mm
			–	–	32 mm	10 mm
			–	–	40 mm	12.5 mm



Rear connection studs flat

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




Rear connectors vertical

	Number of poles	Connection options		Scope of supply
	3P	①	–	3 rear connectors
			–	–
	4P	①	–	4 rear connectors
			–	–

Rear connectors horizontal

	Number of poles	Connection options		Scope of supply
	3P	①	–	3 rear connectors
			–	–
	4P	①	–	4 rear connectors
			–	–

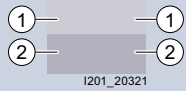
Rear connection studs round

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

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

3VA10 3VA11		3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15	3VA25 3VA26
3VA9113-0QG00	–	–	–	–	–	–
–	3VA9213-0QG00	3VA9223-0QG00	–	–	–	–
–	–	–	3VA9403-0QG00	–	–	–
3VA9114-0QG00	–	–	–	–	–	–
–	3VA9214-0QG00	3VA9224-0QG00	–	–	–	–
–	–	–	3VA9404-0QG00	–	–	–
3VA9111-0QE10	3VA9211-0QE10	3VA9201-0QE10	3VA9401-0QE10	–	–	
3VA9111-0QE20	3VA9211-0QE20	3VA9201-0QE20	3VA9401-0QE20	–	–	
3VA9113-0QE00	3VA9213-0QE00	3VA9203-0QE00	3VA9403-0QE00	–	–	
–	–	–	–	3VA9603-0QE01	3VA9603-0QE01	
3VA9114-0QE00	3VA9214-0QE00	3VA9204-0QE00	3VA9404-0QE00	–	–	
–	–	–	–	–	3VA9603-0QE00	
–	–	–	–	–	3VA9604-0QE00	
–	–	–	–	–	3VA9603-0QE60	
–	–	–	–	–	3VA9604-0QE60	
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	–	–	

Connection technology



- ① For mounting onto the circuit breaker
 ② For mounting on plug-in and withdrawable units

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Circular conductor terminals, 2P



Connection options	Scope of supply	Number of cables	Cable cross-section	Cu/Al stranded ¹⁾		Control wire tap ³⁾	Terminal short designation
				Cu	Al ²⁾		
① –	2 single terminals, 1 extended terminal cover, 1 insulation plate	1	25 ... 150 mm ²	■	■ ⁴⁾	Yes	TA2.1
		6	1.5 ... 35 mm ²	■	–	No	TA2.1 TA2.5

Circular conductor terminals, 3P



• Note on 3VA9603-0JJ25, 3VA9603-0JJ35 and 3VA9603-0JJ45:
 1 set of front bus connectors 3VA9603-0QB01 is required for installing circular conductor terminals on the load side and/or outgoing side.

Connection options	Scope of supply	Number of cables	Cable cross-section	Cu/Al stranded ¹⁾		Control wire tap ³⁾	Terminal short designation	
				Cu	Al ²⁾			
① –	3 single terminals, 1 extended terminal cover, 1 insulation plate	1	25 ... 150 mm ²	■	■ ⁴⁾	Yes	TA2.1	
			50 ... 240 mm ²	■	■	No	TA2.1	
			50 ... 240 mm ²	■	■	Yes	TA2.2	
			50 ... 240 mm ²	■	■	No	TA2.2	
			25 ... 150 mm ²	■	■ ⁴⁾	Yes	TA2.3	
			25 ... 150 mm ²	■	■ ⁴⁾	No	TA2.3	
		2	70 ... 300 mm ²	■	■	Yes	TA2.4	
			70 ... 300 mm ²	■	■	No	TA2.4	
			4	120 ... 240 mm ²	■	–	Yes	TA4.3
				120 ... 240 mm ²	■	–	No	TA4.3
			120 ... 300 mm ²	120 ... 300 mm ²	■	■	Yes	TA4.4
				120 ... 300 mm ²	■	■	No	TA4.4
6	1.5 ... 35 mm ²	■	–	No	TA2.7			
– ②	3 single terminals, 1 extended terminal cover, 1 insulation plate	1	25 ... 150 mm ²	■	■ ⁴⁾	Yes	TA2.1	
			50 ... 240 mm ²	■	■	Yes	TA2.2	
			25 ... 150 mm ²	■	■ ⁴⁾	Yes	TA2.3	
			70 ... 300 mm ²	■	■	Yes	TA2.4	
			150 ... 300 mm ²	■	■	Yes	TA5.1	
			150 ... 300 mm ²	■	■	Yes	TA5.2	
		2	25 ... 150 mm ²	■	■ ⁴⁾	Yes	TA2.3	
			70 ... 300 mm ²	■	■	Yes	TA2.4	
			150 ... 300 mm ²	■	■	Yes	TA5.1	
			150 ... 300 mm ²	■	■	Yes	TA5.2	
			3	150 ... 300 mm ²	■	–	Yes	TA5.3
				150 ... 300 mm ²	■	–	No	TA5.3
4	150 ... 300 mm ²	■	–	Yes	TA5.3			
	150 ... 300 mm ²	■	–	No	TA5.3			
6	1.5 ... 35 mm ²	■	–	No	TA2.5			
	1.5 ... 35 mm ²	■	–	No	TA2.6			
						TA2.7		

¹⁾ All circular conductor terminals tested according to UL 486 A/B for Cu and Al cables

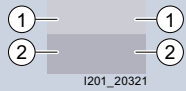
²⁾ Al cable tested according to IEC 60947-2 annex D

³⁾ Maximum current-carrying capacity 15 A
 Maximum cable connection up to 2.5 mm²

⁴⁾ Max. 225 A

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	–
–	–	–	–	3VA9603-0JJ25
–	–	–	–	3VA9603-0JJ35
–	–	–	–	3VA9603-0JJ45
3VA9153-0JF60	–	–	–	–
–	3VA9253-0JF60	3VA9263-0JF60	–	–
–	–	–	3VA9383-0JF60	–

Connection technology



- ① For mounting onto the circuit breaker
② For mounting on plug-in and withdrawable units

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2

Circular conductor terminals, 4P



Connection options	Scope of supply	Number of cables	Cable cross-section	Cu/Al stranded ¹⁾		Control wire tap ³⁾	Terminal short designation
				Cu	Al ²⁾		
① –	4 single terminals, 1 extended terminal cover, 1 insulation plate	1	25 ... 150 mm ²	■	■ ⁴⁾	Yes	TA2.1
			50 ... 240 mm ²	■	■	No	TA2.1
			50 ... 240 mm ²	■	■	Yes	TA2.2
			50 ... 240 mm ²	■	■	No	TA2.2
		2	25 ... 150 mm ²	■	■ ⁴⁾	Yes	TA2.3
			25 ... 150 mm ²	■	■ ⁴⁾	No	TA2.3
			70 ... 300 mm ²	■	■	Yes	TA2.4
			70 ... 300 mm ²	■	■	No	TA2.4
		4	120 ... 240 mm ²	■	–	Yes	TA4.3
			120 ... 240 mm ²	■	–	No	TA4.3
			120 ... 300 mm ²	■	■	Yes	TA4.4
			120 ... 300 mm ²	■	■	No	TA4.4
6	1.5 ... 35 mm ²	■	–	No	TA2.5		
	1.5 ... 35 mm ²	■	–	No	TA2.6		
	1.5 ... 35 mm ²	■	–	No	TA2.7		
	1.5 ... 35 mm ²	■	–	No	TA2.7		
– ②	4 single terminals, 1 extended terminal cover, 1 insulation plate	1	25 ... 150 mm ²	■	■ ⁴⁾	Yes	TA2.1
			50 ... 240 mm ²	■	■	Yes	TA2.2
			25 ... 150 mm ²	■	■ ⁴⁾	Yes	TA2.3
			70 ... 300 mm ²	■	■	Yes	TA2.4
		2	25 ... 150 mm ²	■	■ ⁴⁾	Yes	TA2.3
			25 ... 150 mm ²	■	■ ⁴⁾	No	TA2.3
			70 ... 300 mm ²	■	■	Yes	TA2.4
			70 ... 300 mm ²	■	■	No	TA2.4
		6	1.5 ... 35 mm ²	■	–	No	TA2.5
			1.5 ... 35 mm ²	■	–	No	TA2.6
			1.5 ... 35 mm ²	■	–	No	TA2.7
			1.5 ... 35 mm ²	■	–	No	TA2.7

Terminal covers specially for fixed-mounted units



Version	Number of poles	Mounting location	
Short	1P	①	–
	2P	①	–
	3P	①	–
	4P	①	–
Intermediate	3P	①	–
	4P	①	–
Extended ⁵⁾	2P	①	–
	3P	①	–
	4P	①	–
Broadened ⁵⁾	3P	①	–
	4P	①	–

Terminal covers specially for plug-in and withdrawable 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	①	–
	4P	①	–

¹⁾ All circular conductor terminals tested according to UL 486 A/B for Cu and Al cables

²⁾ Al cable tested according to IEC 60947-2 annex D

³⁾ Maximum current-carrying capacity 15 A
Maximum cable connection up to 2.5 mm²

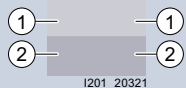
⁴⁾ Max. 225 A

⁵⁾ Including insulating plate

⁶⁾ Suitable for circular conductor terminals 2/4 cables

3VA10		3VA11		3VA12		3VA20		3VA13		3VA15	
3VA10		3VA11		3VA12		3VA21		3VA14		3VA15	
3VA10		3VA11		3VA12		3VA22		3VA23		3VA25	
3VA10		3VA11		3VA12		3VA22		3VA24		3VA25	
3VA9114-OJC12				–		–		–		–	
3VA9114-OJJ12				–		–		–		–	
–	–	–	–	3VA9214-OJC13		3VA9224-OJC13		–		–	
–	–	–	–	3VA9214-OJJ13		3VA9224-OJJ13		–		–	
–	–	–	–	3VA9214-OJC22		3VA9224-OJC22		–		–	
–	–	–	–	3VA9214-OJJ22		3VA9224-OJJ22		–		–	
–	–	–	–	–		–		3VA9404-OJC23		–	
–	–	–	–	–		–		3VA9404-OJJ23		–	
–	–	–	–	–		–		–		3VA9604-OJC43	
–	–	–	–	–		–		–		3VA9604-OJJ43	
–	–	–	–	–		–		–		3VA9604-OJC44	
–	–	–	–	–		–		–		3VA9604-OJJ44	
3VA9114-OJF60				–		–		–		–	
–	–	–	–	3VA9214-OJF60		3VA9224-OJF60		–		–	
–	–	–	–	–		–		3VA9304-OJF60		–	
3VA9154-OJC12				–		–		–		–	
–	–	–	–	3VA9254-OJC13		3VA9264-OJC13		–		–	
–	–	–	–	3VA9254-OJC22		3VA9264-OJC22		–		–	
–	–	–	–	–		–		3VA9484-OJC23		–	
3VA9154-OJF60				–		–		–		–	
–	–	–	–	3VA9254-OJF60		3VA9264-OJF60		–		–	
–	–	–	–	–		–		3VA9384-OJF60		–	
–	3VA9111-OWD10		–	–		–		–		–	
–	3VA9111-OWD20		–	–		–		–		–	
3VA9111-OWD30	3VA9111-OWD30		3VA9211-OWD30		3VA9221-OWD30		3VA9481-OWD30		3VA9601-OWD30		
3VA9111-OWD40	3VA9111-OWD40		3VA9211-OWD40		3VA9221-OWD40		3VA9481-OWD40		3VA9601-OWD40		
–	–		–		–		–		3VA9601-OWE30 ⁶⁾		
–	–		–		–		–		3VA9601-OWE40 ⁶⁾		
–	3VA9111-OWF20		–		–		–		–		
3VA9111-OWF30	3VA9111-OWF30		3VA9211-OWF30		3VA9221-OWF30		3VA9481-OWF30		3VA9601-OWF30		
3VA9111-OWF40	3VA9111-OWF40		3VA9211-OWF40		3VA9221-OWF40		3VA9481-OWF40		3VA9601-OWF40		
3VA9111-OWG30	3VA9111-OWG30		3VA9211-OWG30		3VA9221-OWG30		3VA9401-OWG30		–		
3VA9111-OWG40	3VA9111-OWG40		3VA9211-OWG40		3VA9221-OWG40		3VA9401-OWG40		–		
3VA9113-OKB01	3VA9113-OKB01		3VA9213-OKB01		3VA9123-OKB01		3VA9353-OKB01		–		
3VA9114-OKB01	3VA9114-OKB01		3VA9214-OKB01		3VA9124-OKB01		3VA9354-OKB01		–		

Connection technology



- ① For mounting onto the circuit breaker
 ② For mounting on plug-in and withdrawable units

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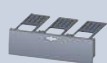
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3VA10

3VA11

Terminal covers for plug-in or withdrawable sockets

- For touch protection in the termination area
- Of the plug-in or withdrawable socket
- For mounting onto the plug-in or withdrawable socket



Version	Number of poles	Mounting location		3VA10	3VA11
Short	3P	–	②	–	3VA9153-0KB03
	4P	–	②	–	3VA9154-0KB03
Extended ¹⁾	3P	–	②	–	3VA9153-0KB04
	4P	–	②	–	3VA9154-0KB04
Broadened ¹⁾	3P	–	②	–	3VA9153-0KB05
	4P	–	②	–	3VA9154-0KB05

Insulating plates



Version	Number of poles	Mounting location		3VA10	3VA11
Standard	2P	①	–	–	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



Mounting location	Scope of supply	3VA10	3VA11
① ②	2 phase barriers	3VA9152-0WA00	–
– ②	2 phase barriers	–	–

Protective sleeve for insulation of rear connections



Mounting location	Scope of supply	3VA10	3VA11
②	3 protective sleeves	–	–

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

¹⁾ Including insulating plate

	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25	3VA26
3VA9253-0KB03	3VA9163-0KB03	3VA9353-0KB03	3VA9603-0KB03	–
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	–	–
–	–	–	–	–
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 3VA9602-0WA05	3VA9602-0WA00 3VA9602-0WA05
–	–	–	3VA9603-0WH05	–
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–

Plug-in and withdrawable technology



Thanks to plug-in and withdrawable 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, withdrawable or fixed-mounted units

In addition, withdrawable 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 withdrawable unit, without contacted main current paths
- Transmission of the state of the molded case circuit breaker (ON, OFF, TRIP) via the COM060 communications 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	3VA15 3VA25 3VA26
Withdrawable units, complete kits					
	<ul style="list-style-type: none"> • Scope of supply: <ul style="list-style-type: none"> – Withdrawable socket – Withdrawable unit, conversion kit – Mounting screw kit • Note: The crank for the withdrawable unit must be ordered separately. 				
Number of poles					
3P	–	3VA9213-0KD00	3VA9123-0KD00	3VA9323-0KD00	–
4P	–	3VA9214-0KD00	3VA9124-0KD00	3VA9324-0KD00	–
Withdrawable units, conversion kits					
	<ul style="list-style-type: none"> • Scope of supply: <ul style="list-style-type: none"> – Screw-fastened terminal covers for molded case circuit breakers – Side panels – Plug-in contacts – Cable cages – Autotrip plunger • Note: The crank for the withdrawable unit must be ordered separately. 				
Number of poles					
3P	–	3VA9213-0KD10	3VA9123-0KD10	3VA9323-0KD10	–
4P	–	3VA9214-0KD10	3VA9124-0KD10	3VA9324-0KD10	–

	3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26
Plug-in units, complete kits					
	<ul style="list-style-type: none"> • Scope of supply: <ul style="list-style-type: none"> – Plug-in socket – Plug-in unit, conversion kit – Mounting screw kit • Note on 3VA9603-0KP00: <ul style="list-style-type: none"> – An undervoltage release (UVR) (article number 3VA9908-0BB..) is required in the circuit breaker in order to provide the protection trip specified in the standard for unplugging the circuit breaker under load. The required UVR voltage version must be ordered in addition. 				
	Number of poles				
3P	3VA9113-0KP00	3VA9213-0KP00	3VA9123-0KP00	3VA9323-0KP00	3VA9603-0KP00
4P	3VA9114-0KP00	3VA9214-0KP00	3VA9124-0KP00	3VA9324-0KP00	–
Plug-in units, conversion kits					
	<ul style="list-style-type: none"> • Scope of supply: <ul style="list-style-type: none"> – 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	–
Plug-in units, conversion kits with blade contacts					
	<ul style="list-style-type: none"> • Scope of supply: <ul style="list-style-type: none"> – 6× blade contacts – Guide frame for circuit breaker – 2× cover for blade contacts – Position signaling switch – Connecting cable for auxiliary circuits 				
	Number of poles				
3P	–	–	–	–	3VA9603-0KP10

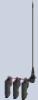






Plug-in and withdrawable technology

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

2

	3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25 3VA26
Cable cages for plug-in/withdrawable units (spare part)					
	<ul style="list-style-type: none"> For routing of the required cables from the internal accessories on the back of the circuit breaker 				
Number of poles					
3P/4P	3VA9157-OKB02	3VA9257-OKB02	3VA9167-OKB02	3VA9367-OKB02	–
Door feedthroughs					
	–	3VA9257-OKT00	3VA9167-OKT00	3VA9367-OKT00	–
Autotrip plungers (spare part)					
	Version				
Plug-in unit	3VA9157-OKP81	3VA9257-OKP81	3VA9267-OKP81	3VA9457-OKP81	–
Withdrawable unit	–	3VA9257-OKD81	3VA9267-OKD81	3VA9457-OKD81	–

Accessories

		3VA11	3VA12	3VA20	3VA21	3VA22	3VA23	3VA24	3VA13	3VA14	3VA15	3VA25	3VA26
Communications interface for withdrawable unit													
	Scope of supply	Set of cables with three special position signaling switches, 3VA9987-0KC10 connecting cables											
		3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00
Position signaling switches for withdrawable unit and plug-in unit													
	Note on 3VA9603-0KB00:	4 position signaling switches can be installed in the plug-in base.											
		3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00
Connecting cables													
	Use	Connection of position signaling switches for communication with COM060											
		3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10
	For auxiliary circuits	–	–	–	–	–	–	–	–	–	–	–	3VA9603-0KP80
Cranks for withdrawable units													
	Version	Insulated											
	Scope of supply	Including crank holder											
		3VA9987-0KD81	3VA9987-0KD81	3VA9987-0KD81	3VA9987-0KD81	3VA9987-0KD81	3VA9987-0KD81	3VA9987-0KD81	3VA9987-0KD81	3VA9987-0KD81	3VA9987-0KD81	3VA9987-0KD81	3VA9987-0KD81
Auxiliary circuit connectors													
	Each auxiliary circuit connector is designed for 4 cables.												
	Version	For all withdrawable units											
		3VA9987-0KD80	3VA9987-0KD80	3VA9987-0KD80	3VA9987-0KD80	3VA9987-0KD80	3VA9987-0KD80	3VA9987-0KD80	3VA9987-0KD80	3VA9987-0KD80	3VA9987-0KD80	3VA9987-0KD80	3VA9987-0KD80
	For all plug-in units	3VA9987-0KP80	3VA9987-0KP80	3VA9987-0KP80	3VA9987-0KP80	3VA9987-0KP80	3VA9987-0KP80	3VA9987-0KP80	3VA9987-0KP80	3VA9987-0KP80	3VA9987-0KP80	3VA9987-0KP80	3VA9987-0KP80
Cylinder locks													
	Scope of supply:	– 1 lock with 2 keys											
		For locking or interlocking											
	Note:	Not for 3VA15/3VA25!											
	Key	Lock number											
	1	3VA9980-0VL10	3VA9980-0VL10	3VA9980-0VL10	3VA9980-0VL10	3VA9980-0VL10	3VA9980-0VL10	3VA9980-0VL10	3VA9980-0VL10	3VA9980-0VL10	3VA9980-0VL10	3VA9980-0VL10	3VA9980-0VL10
	3	3VA9980-0VL30	3VA9980-0VL30	3VA9980-0VL30	3VA9980-0VL30	3VA9980-0VL30	3VA9980-0VL30	3VA9980-0VL30	3VA9980-0VL30	3VA9980-0VL30	3VA9980-0VL30	3VA9980-0VL30	3VA9980-0VL30
	4	3VA9980-0VL40	3VA9980-0VL40	3VA9980-0VL40	3VA9980-0VL40	3VA9980-0VL40	3VA9980-0VL40	3VA9980-0VL40	3VA9980-0VL40	3VA9980-0VL40	3VA9980-0VL40	3VA9980-0VL40	3VA9980-0VL40
Cylinder lock adapters for withdrawable units													
	To prevent unauthorized withdrawal or insertion of the circuit breaker into the withdrawable unit												
	Circuit breaker can be locked in the CONNECT, TEST and DISCONNECT positions												
	Use	For fitting a cylinder lock in the right-hand side wall of the withdrawable unit											
		3VA9980-0LF40	3VA9980-0LF40	3VA9980-0LF40	3VA9980-0LF40	3VA9980-0LF40	3VA9980-0LF40	3VA9980-0LF40	3VA9980-0LF40	3VA9980-0LF40	3VA9980-0LF40	3VA9980-0LF40	3VA9980-0LF40

2

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

2

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 operational voltage U_e	Fault current frequency	Pre-alarm			Trip alarm			
									COM			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 operational voltage U_e	Fault current frequency	Pre-alarm			Trip alarm			
									COM			COM	
3-pole	RCD520	Type A	0.03 ... 5 A	0 ... 3 s	127 ... 480 V AC	50/60 Hz	1	–	–	–	■	■	–
	RCD520B ¹⁴⁾	Type B	0.03 ... 5 A	0 ... 10 s	127 ... 690 V AC	0 ... 100 kHz	1	■	–	–	■	■	–
		Type B+	0.03 ... 0.3 A										
4-pole	RCD820 ²⁾	Type A	0.03 ... 30 A ⁵⁾	0 ... 10 s	127 ... 690 V AC	50/60 Hz	2	■	■	■	■	■	■
	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

RCD820 - 3VA2 ETU connecting cables (spare part)

- Connecting cable between the RCD820 and the electronic trip unit (ETU) of a 3VA2



Version	Scope of supply
For RCD820	1 × RCD-ETU cable

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.-0R520).

Modular residual current devices type A/B (according to IEC 60947-2 annex M), see monitoring devices, from page 11/1 onwards

			3VA11	3VA12	3VA20 3VA21	3VA22	3VA23	3VA24	3VA10 3VA13 3VA14 3VA15 3VA25 3VA26
Monitoring mode (tripping can be disabled as an option)	Remote test/remote reset	Communication-capable							
■	–	–	3VA9113-ORS20 ⁶⁾	3VA9213-ORS20 ⁷⁾	–	–	–	–	–
■	–	–	3VA9114-ORS10 ⁶⁾	–	–	–	–	–	–
■	–	–	3VA9114-ORS20 ⁶⁾	3VA9214-ORS20 ⁷⁾	–	–	–	–	–
Monitoring mode (tripping can be disabled as an option)	Remote test/remote reset	Communication-capable							
–	–	–	3VA9113-ORL20	3VA9213-ORL20	–	–	–	–	–
■	–	–	3VA9113-ORL21	–	–	–	–	–	–
■	■	■	–	–	3VA9123-ORL30	3VA9223-ORL30	3VA9323-ORL30	3VA9423-ORL30	–
–	–	–	3VA9114-ORL10	–	–	–	–	–	–
–	–	–	3VA9114-ORL20	3VA9214-ORL20	–	–	–	–	–
■	–	–	3VA9114-ORL21	–	–	–	–	–	–
■	■	■	–	–	3VA9124-ORL30	3VA9224-ORL30	3VA9324-ORL30	3VA9424-ORL30	–
			3VA9988-0BR10	3VA9988-0BR10	–	–	–	–	–
			–	–	3VA9927-ORC00	3VA9927-ORC00	3VA9927-ORC00	3VA9927-ORC00	–

Communication

2

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	■	■	□	□	■
Average value over the three phase currents	$I_{LAVG} = (I_1 + I_2 + I_3)/3$	A	–	■	–	□	■
Asymmetry of the phase currents	I_{nba}	%	–	■	–	□	■
THD of the 3 phases	$THDI_1, THDI_2, THDI_3$	%	–	■	–	□	■
Voltage							
Phase voltages incl. average value	$U_{12}, U_{23}, U_{31}, U_{phavg}$	V	–	■	□	□	■
Voltages to N conductor incl. average 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	–	■	□	□	■
Min/max 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	3VA23
	3VA21	3VA24
	3VA22	3VA25
		3VA26

COM060 communications modules



- For mounting in the right-hand accessories compartment of the 3VA2 molded case circuit breaker (including ETU power supply)
- Including a T-Connector

Use

Communication to the COM800/COM100 data concentrator via 3VA line

3VA9187-0TB10

3VA9387-0TB10

SLC adapters (spare part)



Scope of supply

5 units

3VA9187-0TB60

3VA9387-0TB60

24 V modules



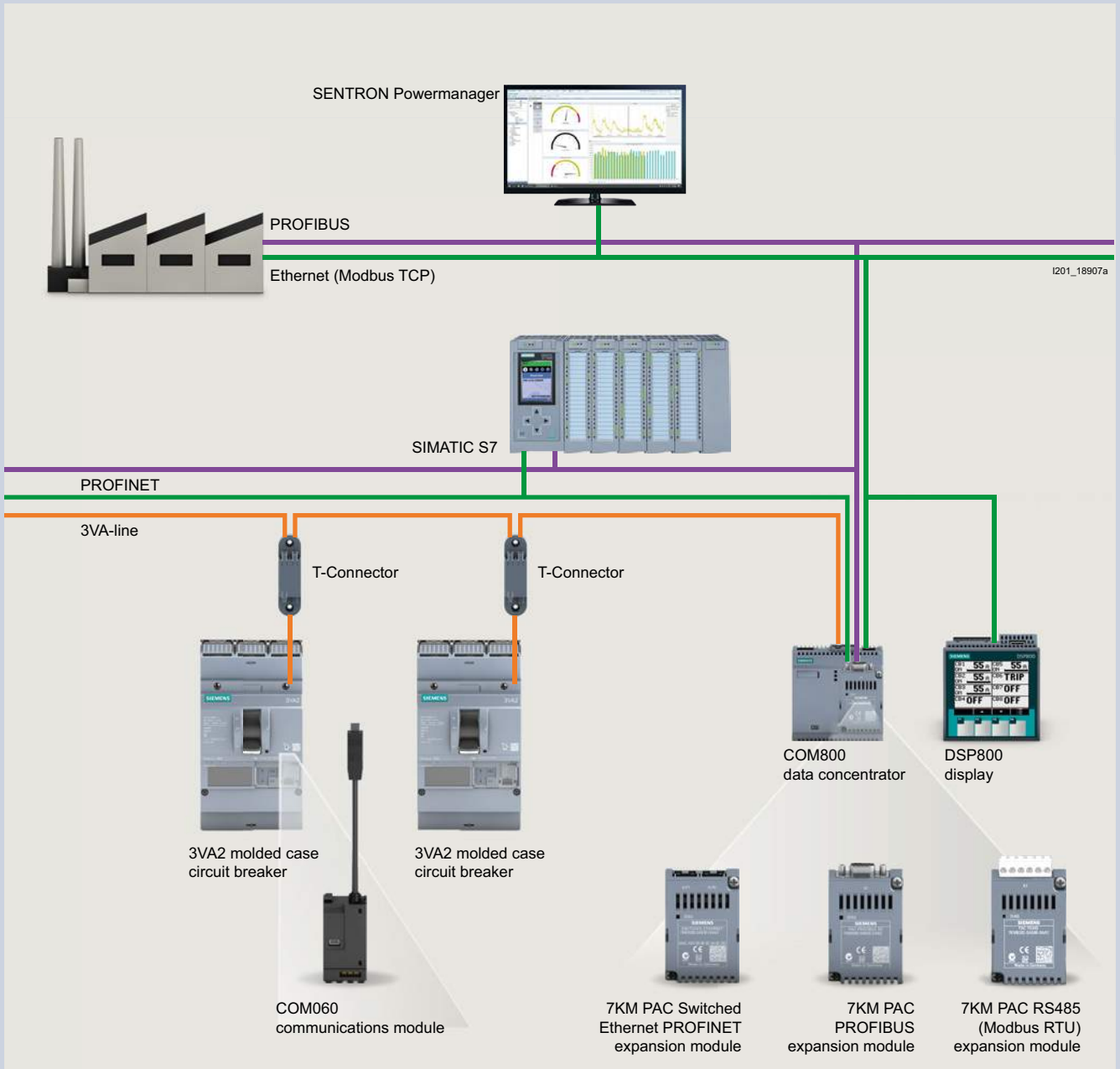
- 24 V DC
- For mounting in the right-hand accessories compartment of the 3VA2

Use

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



Communication

Data concentrator

COM800 data concentrators



Version	Article No.
Central communications 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 data concentrators



Version	Article No.
Central communications 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



Use	Article No.
Used for connecting the COM800/COM100 data concentrator, 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



Use	Article No.
Used for connecting the COM800/COM100 data concentrator, 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, PROFINET energy and Modbus TCP protocols.	7KM9300-0AE02-0AA0

7KM PAC RS485 Modbus RTU expansion modules



Use	Article No.
Used for connecting the COM800/COM100 data concentrator, 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

Interfaces to IEC 61850

- The SICAM A8000 smart data concentrator 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	Article No.
SICAM CP-8021 ¹⁾	–	6MF2802-1AA00
SICAM CP-8031 ²⁾	–	6MF2803-1AA00
SICAM CP-8050 ³⁾	–	6MF2805-0AA00
SICAM PS-8620	24 ... 60 V DC (12 W)	6MF2862-0AA00
SICAM PS-8622	110 ... 220 V DC (12 W)	6MF2862-2AA00

¹⁾ Dimensioned for device quantities of max. 1× 3WA and 1× 3VA

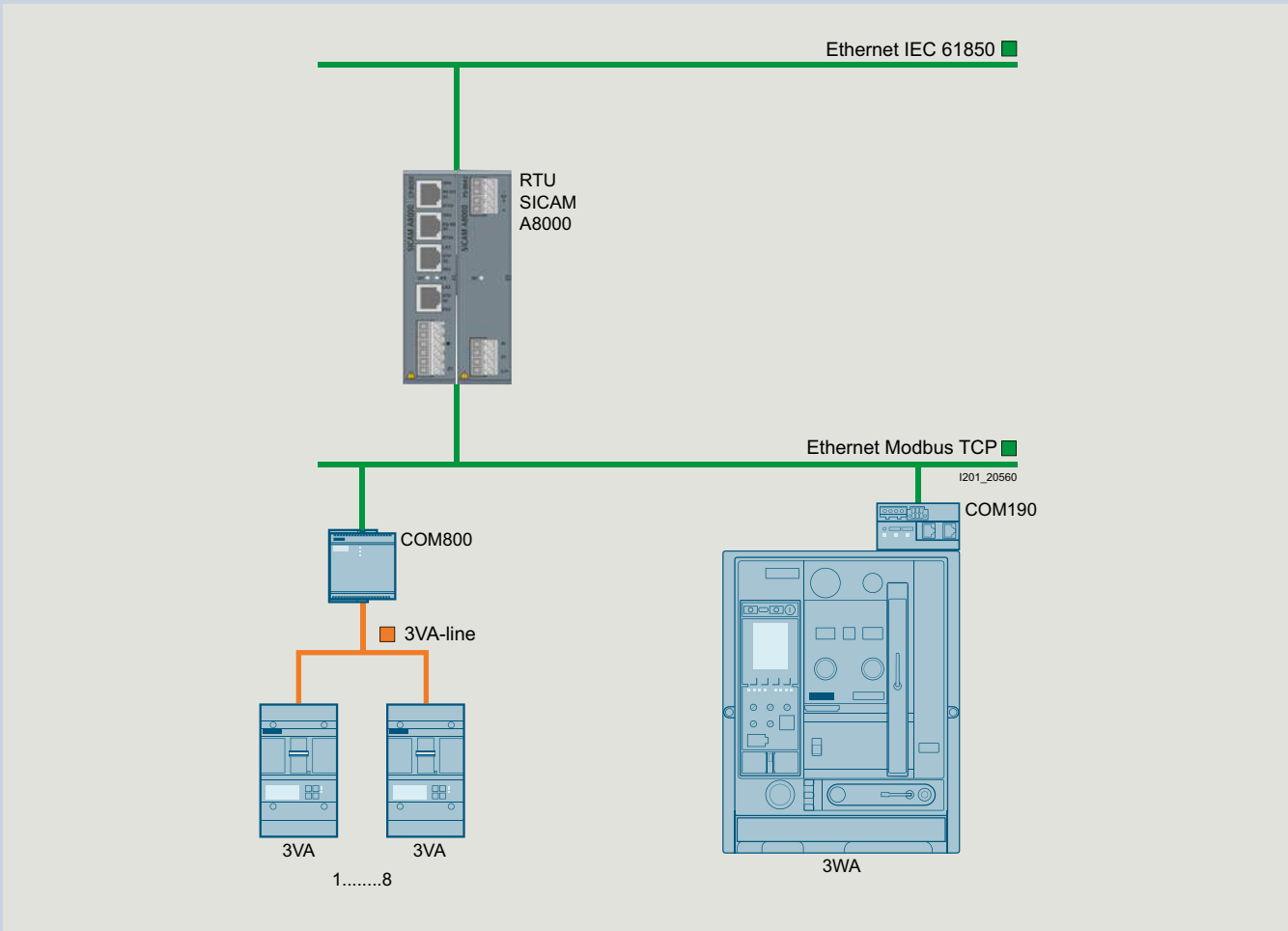
²⁾ Dimensioned for device quantities of 1× 3WA and 8× 3VA

³⁾ Dimensioned for device quantities of 3× 3WA and 8× 3VA or 2× 3WA and 8× 3VA and 1× PAC4200

You will find further information at:










www.siemens.com/sicam-a8000

For the SICAM CP-8021, SICAM CP-8031 and SICAM CP-8050, predefined modules were created to reduce commissioning work to a minimum. The modules can be obtained free of charge via SiePortal www.siemens.com/lowvoltage/product-support (109816057).




Communication

Accessories for communication

T-connectors (spare part)			
	Use		Article No.
	Provides a stub connection to the COM060 and loops through to the next circuit breaker.		3VA9987-0TG10
DIN-rail adapters			
	Use		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)			
	Use		Article No.
	For COM800 and COM060		3VA9987-0TE10
Voltage tap to external N conductors (spare part)			
	Use		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			
	Use	Rated current	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		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		
	Use	Article No.
	For displaying the status and measured values of up to eight devices	3VA9987-0TD10
	<ul style="list-style-type: none"> • 3VA2 via COM800/100 • 3VA27 • 3WL10 • 3WL11-13 • PAC3200T 	

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

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

Connecting cables for EFB300



Length	Use	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



Use	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 ¹⁾



- 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

Use	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

Use	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

¹⁾ A country-specific radio license is required to operate the Bluetooth interface. Before activating the Bluetooth function, ensure that the license is available: www.siemens.com/lowvoltage/certificates

Locking, blocking and interlocking

3VA20

3VA21

3VA11

3VA12

3VA22

Locking

- The locking provisions 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
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Locking provision for handle operating mechanism	3VA9088-0LB10	3VA9388-0LB10
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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
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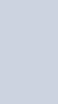
Handle interlocking module with Bowden cable	3VA9157-0VF10	3VA9257-0VF10	3VA9167-0VF10
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Bowden cable	Length 0.6 m	3VA9980-0VC10
	Length 1.0 m	3VA9980-0VC20
	Length 1.5 m	3VA9980-0VC30

Rear interlock with rod	Circuit breaker, fixed-mounted	3VA9088-0VM10
	Plug-in/withdrawable technology	3VA9088-0VM30

Mounting frame for rear interlock with rod	Mounting rails	3VA9088-0VK10
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	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)

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

Locking

Use in	Locking in OFF position	Locking in ON position	Front mounting	Rear mounting	Interlocked breakers
3VA9980-0VL10 3VA9980-0VL30 3VA9980-0VL40	■	■	■	–	–
3VA9367-0LF10 3VA9587-0LF10	■	■	■	–	–
3VA9388-0LB10 3VA9588-0LB10	■	■	■	–	–

Interlocking

Use in	Locking in OFF position	Locking in ON position	Front mounting	Rear mounting	Interlocked breakers
3VA9980-0VL10 3VA9980-0VL30 3VA9980-0VL40	■	■	■	–	Unlimited
3VA9368-0VF30 –	–	–	■	–	3
3VA9367-0VF10 3VA9587-0VF10	–	–	■	–	3
3VA9980-0VC10 3VA9980-0VC20 3VA9980-0VC30					
3VA9088-0VM10 3VA9588-0VM10 ¹⁾ 3VA9088-0VM30 –	–	–	–	■	2
3VA9088-0VK10 –	–	–	–	■	
3VA9468-0VK20 –					

Cover frame and mounting


2

3VA10

3VA11

3VA12


Cover frames for door cut-outs for molded case circuit breakers

	Number of poles	Door cut-out with trip unit	3VA10	3VA12
	3P	No		3VA9053-OSB10
Yes			3VA9053-OSB20	3VA9253-OSB20
4P	No		3VA9054-OSB10	3VA9254-OSB10
	Yes		3VA9054-OSB20	3VA9254-OSB20

Cover frames for motor operators

	Use	3VA10	3VA12
	MO320 motor operator		3VA9053-OSB20
Motor operator with SEO520 stored energy mechanism		–	–


Cover frames for RCD320, RCD520 and RCD820 residual current devices

	Number of poles	3VA10	3VA12
	3P		3VA9053-OSB10
4P		3VA9054-OSB10	3VA9254-OSB10

Cover frames for front mounted rotary operators

	3VA10	3VA12
	3VA9053-OSB10	3VA9253-OSB10


Cover frames for door feedthroughs

	3VA10	3VA12
	–	3VA9253-OSB20


Labeling plates for cover frame

	3VA10	3VA12
	–	3VA9087-OSX10

DIN-rail adapter for 3VA1 molded case circuit breakers

	Number of poles	3VA10	3VA12
	1P	3VA9181-OSH10 ¹⁾	–
	2P	3VA9182-OSH10	–
	3P and 4P	3VA9187-OSH10	–
	3P and 4P in connection with RCD310 or RCD510	3VA9187-OSH20	–

Mounting screw kits

	Use	Number of poles	3VA10	3VA12
	For fixed-mounted circuit breakers		1P	3VA9111-OSS10
2P and 3P (apart from 125 A/160 A with 55 kA and 70 kA)			3VA9116-OSS10	–
3P (125 A/160 A with 55 kA and 70 kA) and 4P			3VA9114-OSS10	–
3P			–	–
4P			–	–
For plug-in units		3P and 4P	–	–
		–	3VA9114-OSS10	–
		–	–	3VA9114-OSS10
For plug-in and withdrawable technology		–	–	3VA9114-OSS10

¹⁾ For 1-pole 3VA11 molded case circuit breakers up to 25 kA

Adapters for 60 mm busbar system (8US), [see page 13/26](#)

	3VA13	
3VA20	3VA14	3VA15
3VA21	3VA23	3VA25
3VA22	3VA24	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	3VA9377-0SB30	–
3VA9167-0SB30	3VA9377-0SB30	–
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
–	–	3VA9603-0SS10
3VA9124-0SS10	3VA9328-0SS10	–

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

Molded case circuit breakers

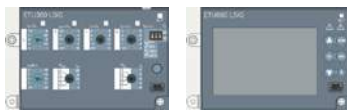


Handle



Stored energy mechanism

Trip units



Electronic trip unit (ETU)

Accessories



Communications module



Rating plug



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



Trip alarm switch



Ready-to-close
signaling switch (RTC)



Auxiliary switch
ON/OFF (AUX)



Trip alarm switch
(S24)



Trip alarm switch
(TAS)

Other accessories



Interlocking sets



Locking provision



Locking mechanism



Door sealing frame



Protective cover



Mechanical
interlock



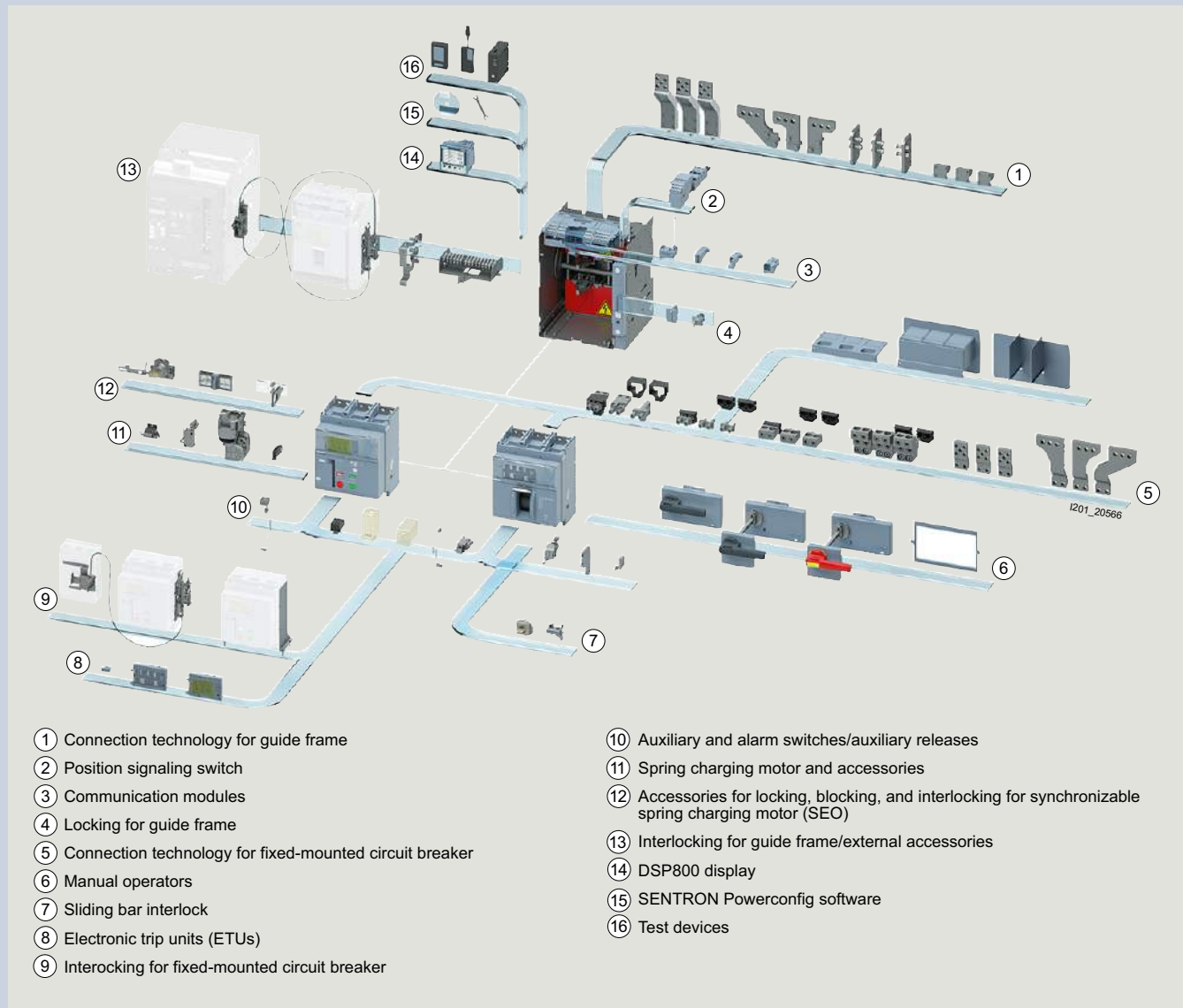
Manual operator

Note:

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

System overview

2



Structure of the article numbers

Basic configuration with handle 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											
Molded case circuit breakers and ETUs													
Max. rated current	800 A	8		0									
	$I_{n\max}$	1000 A	1	0									
		1250 A	1	2									
		1600 A	1	6									
Short-circuit breaking capacity $I_{cu} = I_{cs}$ at 415 V	Handle operating mechanism	55 kA			5								
		85 kA			6								
		110 kA			7								
Molded case switches	Without metering function, without communications interface	Without trip unit				A	A						
	Circuit breakers, ETU 3-series	Without metering function, without communications interface	With trip unit	ETU320 LI	(N) ¹⁾	A	B						
			ETU350 LSI	(N) ¹⁾	A	C							
			ETU360 LSI	(N) ¹⁾	A	D							
Circuit breakers, ETU 6-series	With trip unit	ETU650 LSI	(N) ¹⁾			E							
		ETU660 LSI	(N) ¹⁾			F							
	Without a communications interface	Without metering function				A							
		With a communications interface	Without metering function				B						
	Metering function		Voltage tap on bottom			C							
	Basic		Voltage tap on top			D							
Metering function	Voltage tap on bottom			E									
Advanced	Voltage tap on top			F									
Number of poles	Fixed-mounted	3-pole					0						
		4-pole	Neutral left			1							
			Neutral right			2							
	Withdrawable	3-pole			3								
		4-pole	Neutral left			4							
	Neutral right				5								
Connections													
Type of mounting	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 main connection						3						
	Front-accessible, extended main connection						5						
	Front-accessible, broadened main connection						6						
	Rear broadened bus connectors						7						

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

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

Alarm switch combinations

Alarm switches	Without	0
	With trip alarm switch TAS and trip alarm switch S25	1
	With two leading changeover switches S26	2
	With trip alarm switch TAS and trip alarm 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

Structure of the article numbers

Basic configuration with stored energy 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		-								
Molded case circuit breakers and ETUs												
Max. rated current	800 A	8	0									
$I_{n\max}$	1000 A	1	0									
	1250 A	1	2									
	1600 A	1	6									
Short-circuit breaking capacity	Stored energy mechanism			1								
$I_{cu} = I_{cs}$ at 415 V				2								
				3								
Molded case switches	Without metering function, without communications interface				A	A						
Circuit breakers, ETU 3-series	Without metering function, without communications interface				A	B						
	With trip unit				A	C						
		ETU320 LI	(N) ¹⁾		A	D						
		ETU350 LSI	(N) ¹⁾									
		ETU360 LSIG	(N) ¹⁾									
Circuit breakers, ETU 6-series						E						
	With trip unit					F						
		ETU650 LSI	(N) ¹⁾									
		ETU660 LSIG	(N) ¹⁾									
	Without a communications interface				A							
	Without metering function											
	With a communications interface				B							
	Without metering function											
	Metering function Basic											
	Voltage tap on bottom											
	Voltage tap on top											
	Metering function Advanced											
	Voltage tap on bottom											
	Voltage tap on top											
Number of poles	Fixed-mounted											
	3-pole											0
	4-pole											1
		Neutral left										2
		Neutral right										3
	Withdrawable											4
	3-pole											5
	4-pole											6
		Neutral left										7
		Neutral right										8
Connections												
Type of mounting	Withdrawable											
	Withdrawable circuit breaker without guide frame (guide frame must be ordered separately)											0
	Fixed-mounted breaker/withdrawable breaker											1
	Rear vertical connection											2
	Rear horizontal connection											3
	Front main connection											4
	Front-accessible, extended main connection											5
	Front-accessible, broadened main connection											6
	Rear broadened bus connectors											7
Motor												
Operating mechanisms	Manual operator											0
	Spring charging motor											1
		24 ... 30 V AC/DC										2
		48 ... 60 V AC/DC										3
		110 V AC/DC										4
		230 V AC/DC										5

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

3VA27

6 7 8 9 10 11 12 13 14 15 16

Auxiliary releases, closing coils, remote reset magnets

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

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 number and indicate the appropriate order code(s).

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

Order code

Accessories for basic configuration

Mounting options for fixed-mounted circuit breakers

- 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 interlocking mechanism.¹⁾

Mounting options for fixed-mounted circuit breakers ¹⁾						Order code
	Floor mounting	Mounting support standard				A07
		Mounting support extended ²⁾				S56
	Rear panel mounting onto mounting plate	Side wall extended ²⁾				S57

Accessories for electronic trip units ETU

Rating plugs

- As standard, the electronic trip units are equipped with a rating plug for setting the rated current I_{nr} , 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						Order code	
For setting the rated current I_{nr}	For all ETUs	400 A				B04	
		630 A				B06	
		800 A				B08	
		1000 A				B10	
		1200 A				B12	
		For setting the rated current I_{nr} , with overload protection L = OFF	For 6-series ETUs	400 A			
	630 A						L06
	800 A						L08
	1000 A						L10
	1250 A						L12
	1600 A						L16
	For setting the rated current I_{nr} , For enabling the residual current protective function. The residual current function is only possible with the MF Advanced metering function.	For ETU660 only	400 A				G04
630 A						G06	
800 A						G08	
1250 A						G12	

Communications 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.

Communications modules						Order code
	COM040	PROFIBUS				F02
	COM041	PROFINET				F03
	COM043	Modbus TCP				F11
	COM042	Modbus RTU				F12

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						Order code
	110 ... 240 V AC/DC					F26

I/O modules internal

I/O modules internal						Order code
	IOM040 digital I/O module	2 inputs, 2 outputs				K56

For molded case circuit breakers with stored energy mechanism

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

For molded case circuit breakers with handle operating mechanism

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

To specify the options, add "-Z" to the complete article number and indicate the appropriate order code(s).

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

Order code

2

Accessories for motors

Mechanical operating cycles counter, 5-digit					C01
--	--	--	--	--	-----

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)				K55
--	---	--	--	--	-----

Signaling switch	Ready-to-close signaling switch	1 CO digital 24 V DC			K50
	Trip alarm switch (S24)	1 CO digital 24 V DC			K53
	Spring charge signaling switch (S21)	1 CO digital 24 V DC			K54

Auxiliary switch	On/Off AUX	4 CO digital 24 V DC			K51
		2 CO 400 V AC, and 2 CO digital 24 V DC			K52

Locking, blocking and interlocking

Locking provisions ¹⁾	To prevent movement of the withdrawable circuit breaker	Cylinder lock	Made by RONIS		R78
		For no more than 3 padlocks, 8 mm			R65


Locking mechanism	To prevent movement to disconnected position				R79
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Locking provision	Against unauthorized closing in the operator panel (safe OFF)	Cylinder lock, made by RONIS			S08
		For no more than 3 padlocks, plastic 4 mm			S22
		For no more than 1 padlock, metal 7 mm			S23
		For no more than 2 padlocks, metal 8 mm			S07

Interlocking set	For mechanical ON and/or OFF on the operator panel	For no more than 3 padlocks, plastic 4 mm			S42
		For no more than 1 padlock, metal 7 mm			S43
		For no more than 2 padlocks, metal 8 mm			S44

Protective cover	For mechanical ON/OFF, not lockable				S41
------------------	-------------------------------------	--	--	--	-----

Door sealing frame IP30	IP3x				T30
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 For molded case circuit breakers with stored energy mechanism

 For molded case circuit breakers with handle operating mechanism

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

Guide frames

3VA27

Guide frames for ordering separately without circuit breakers



- Guide frames without breakers up to 1600 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 breaker. 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	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 number and indicate the appropriate order code(s).

3VW8....-.....-..... -Z

Order code

Locking, blocking and interlocking

Locking provision	To prevent movement of the withdrawable circuit breaker	Cylinder lock, made by RONIS	☒	☒	R78
		For no more than 3 padlocks, 8 mm	☒	☒	R65
Locking mechanism	To prevent movement to disconnected position (only in combination with R78 or R65)		☒	☒	R79

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)	☒	☒	K55
---	---	---	---	---	-----

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 mechanism

☒ For molded case circuit breakers with handle operating mechanism
















Electronic trip unit ETU and accessories

3VA27




Electronic trip units (ETU)

Version	With communications/ metering function, enhanced protective functions	Type	Protective function	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

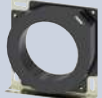




Metering functions for ETU650 or ETU660

Description	Protective function/version	Arrangement	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	Use	Article No.
 ETU320, ETU350, ETU360, ETU650, ETU660	Only for 3-pole circuit breakers	  3VW9011-0AA30





External current transformers for grounded transformer neutral points

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

Summation current transformers external Rc-CT for residual current measurement


Accessory for	Use	Article No.
 ETU660	<ul style="list-style-type: none"> Only with MF Advanced metering function and Rc rating plug 	
	For external residual current measurement	  3VW9011-0RC30


Remote reset magnets RR for the circuit breakers including tripped signaling

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

Spare part batteries for electronic trip unit ETU

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

 For molded case circuit breakers with stored energy mechanism

 For molded case circuit breakers with handle operating mechanism

































Electronic trip unit ETU and accessories

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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 of the residual current protective function and setting ($< I_{n\max}$) of the rated current I_n . A 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 - communications modules



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

Communications 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 DIN rail


Accessory for	Maximum switching current per contact	Inputs	Outputs	Article No.
ETU 6-series	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 mechanism

 For molded case circuit breakers with handle operating mechanism

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 communications module, spring charging motor, closing coil and 1st shunt trip.
- Automatically included if the communications interface of the ETU 6-series is selected in the basic circuit breaker configuration.

Accessory for

ETU 6-series



-

Article No.

3VW9011-0AT10

Breaker Connect modules



- For external power supply for the electronics components

Voltage

110 ... 240 V AC/DC



Article No.

3VW9011-0AT06

24 ... 48 V DC



3VW9011-0AT07

Auxiliary contact signals for communications interface



- Auxiliary contacts for signaling the readiness to close or for position signaling switches of the withdrawable positions.
- Can only be used in combination with communications 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

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



-

Article No.

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

Test device

Type

TD310



Article No.

3VW9011-0AT32

- 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

Breaker data adapter

TD410



3VW9011-0AT34

- As gateway for parameterization of the ETU with SENTRON Powerconfig
- For generation of a report of the set parameters with powerservice

Test device and breaker data adapter

TD420



3VW9011-0AT33

- 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 protective functions LSING
 - Testing of the enhanced protective functions
 - Test data storage
 - Readout of ETU buffer
 - Generation of a report of the set parameters

For molded case circuit breakers with stored energy mechanism

For molded case circuit breakers with handle operating mechanism























2

Accessories for connection and insulation

3VA27













Front main 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

Mounting	Version	Mounting onto	Number of poles/quantity	Article No.
Fixed-mounted	Front main connections	–	3-pole/3 units  	3VW9011-0AL01
			4-pole/4 units  	3VW9011-0AL02
	Extended main terminals, including insulation plate and phase barriers, standard	Front main connections	3-pole/3 units  	3VW9011-0AL77
			4-pole/4 units  	3VW9011-0AL78
			3-pole/3 units  	3VW9011-0AL73
			Front main connections, bottom	3-pole/3 units  
Broadened main terminals, including insulation plate and extended phase barriers	Front main connections, 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


Mounting	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 connections	–	3-pole/3 units  
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

Mounting	Version	Mounting onto	Number of poles/quantity	Article No.
Fixed-mounted	Circular conductor terminals 4 × 240 mm ² for front cable connection ¹⁾ , including insulation plate and high, extended terminal cover	Front main connections	3-pole/3 units  	3VW9011-0AL71
			4-pole/4 units  	3VW9011-0AL72
Withdrawable	Set of circular conductor connection pieces 4 × 240 mm ² for cable lugs for rear cable connection	Rear vertical main connections	3-pole/3 units  	3VW9011-0AN71
		–	4-pole/4 units  	3VW9011-0AN72

¹⁾ For connecting Al cables up to 1000 A

 For molded case circuit breakers with stored energy mechanism

 For molded case circuit breakers with handle operating mechanism

3VA27

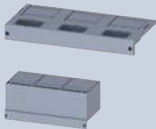
Auxiliary supply connectors in push-in version



- Control wire tap in push-in version for upgrading fixed-mounted circuit breakers and guide frames.
- The device is always fitted at the factory with the exact number of control wire taps required.

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

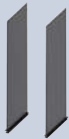
Terminal covers for fixed-mounted circuit breakers



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

Version	Number of poles/quantity	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-mounted circuit breakers



- Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately.
- For operational 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	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 circuit breakers on the floor



- For fixed-mounted versions only

Version	Use	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)	<ul style="list-style-type: none"> • Fixation for external auxiliary switches AUX 15 CO (3VW9011-0AG15) • Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) • Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16), • Mechanical interlock to 3WA/3WL/3VA (for 3VW9011-0BB21) 	3VW9011-0BB52

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



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

Version	Use	Article No.
Extension kit for side wall	<ul style="list-style-type: none"> • Fixation for external auxiliary switches AUX 15 CO (3VW9011-0AG15) • Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) • Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16), • Mechanical interlock to 3WA/3WL/3VA (for 3VW9011-0BB21) 	3VW9011-0BB53

For molded case circuit breakers with stored energy mechanism

For molded case circuit breakers with handle operating mechanism

Motor operators and manual operators

3VA27

Spring charging motor (MO)



Description	Voltage		Article No.
For automatic charging of the stored energy 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 handle operating mechanism



Description	Version	Color	Degree of protection		Article No.
Front mounted rotary operator incl. door sealing frame	Standard	Gray	IP30	-	3VW9727-0EK11
	EMERGENCY-OFF	Yellow-red	IP30	-	3VW9727-0EK15



Door mounted rotary operator	Standard	Gray	IP30	-	3VW9727-0FK21
	EMERGENCY-OFF	Yellow-red	IP30	-	3VW9727-0FK25



Basic without handle			IP30	-	3VW9727-0GK00
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Shaft stub			IP30	-	8UD1900-3WD00
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Handle	Gray	IP30	-	8UD1861-0AB11
	Yellow-red	IP30	-	8UD1861-0AB15

For molded case circuit breakers with stored energy mechanism

For molded case circuit breakers with handle operating mechanism

Auxiliary releases, closing coils

3VA27

Closing coils CC/shunt trips ST

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



Voltage	Article No.
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 device
 - 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 circuit 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
Trip alarm switch S24	1 CO standard	3VW9011-0AH14
	1 CO digital	3VW9011-0AH15
Spring charge signaling switch S21	1 CO standard	3VW9011-0AH10
	1 CO digital	3VW9011-0AH08
Position signaling switches PSS (only with withdrawable 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 mechanism

 For molded case circuit breakers with handle operating mechanism

Auxiliary releases, closing coils

3VA27

Auxiliary/signaling switches for handle operating mechanism



- 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, and 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 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 circuit breakers a 3VW9011-0BB5x side wall modification.

Description	Contacts		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
Trip alarm 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 changeover 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		Article No.
For fixed-mounted circuit 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		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		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 mechanism

☒ For molded case circuit breakers with handle operating mechanism

Locking provisions and interlocks

3VA27

Locking provision to prevent movement of the withdrawable circuit breaker



Version		Article No.
RONIS cylinder lock (spare part for R78)	WM ↙	3VW9011-0BA80
Padlock 8 mm (spare part for R65), for no more than 3 padlocks	WM ↙	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 (spare part for R79)	WM ↙	3VW9011-0BA84

Locking provisions in OFF position



- For fixed-mounted and withdrawable versions
- Against unauthorized closing in the operator panel (safe OFF)
- The disconnecter unit fulfills the requirements for main circuit breakers according to EN 60204-1

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

Locking provisions in OFF position



- For fixed-mounted and withdrawable versions
- Against unauthorized closing in the operator panel (safe OFF)
- The disconnecter unit fulfills the requirements for main circuit breakers according to EN 60204-1

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

Locking provision in OFF position for handle operating mechanism with rotary operators



- Against unauthorized closing in the case of molded case circuit breakers with rotary operator

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

Locking provision in OFF position for handle operating mechanism without rotary operators

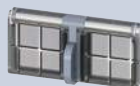


- Against unauthorized closing in the operator panel in the case of molded case circuit breakers without rotary operator

Description		Article No.
For padlocks	– ↙	3VW9727-0LB10

For RONIS	– ↙	3VW9727-0LF10
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Interlocking sets for mechanical Open and/or Close on the operator panels



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

WM For molded case circuit breakers with stored energy mechanism

↙ For molded case circuit breakers with handle operating mechanism

2

Locking provisions and interlocks

3VA27

Protective covers for mechanical ON/OFF



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

Description	Article No.
Not lockable (spare part for S41)	3VW9011-0BA21

Mechanical interlock



- Mechanical interlock with Bowden cable 2 m
- For fixed-mounted versions, an additional support 3VW9011-0BB52 (option S56) or extension kit 3VW9011-0BB53 (option S57) must be ordered

Mounting	Mounting	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

Type	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.

Mounting	Version	Article No.
Fixed mounted 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	Mounting	Version	Article No.
Spare part for Z option T30.	Fixed-mounted	IP3x	3VW9011-0AP01
		IP3x	3VW9011-0AP02
	Withdrawable	IP3x	3VW9011-0AP04

Protective covers IP54



- Protective cover/hood IP54 lockable for fixed-mounted circuit 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	Article No.
Lock with unique key	IP54	3VW9011-0AP03
Lock with standard key	IP54	3VW9011-0AP13

For molded case circuit breakers with stored energy mechanism

For molded case circuit breakers with handle operating mechanism

3VL up to 1600 A, IEC



3VL molded case circuit breaker



Product Discontinuation

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

Documents available for downloading:

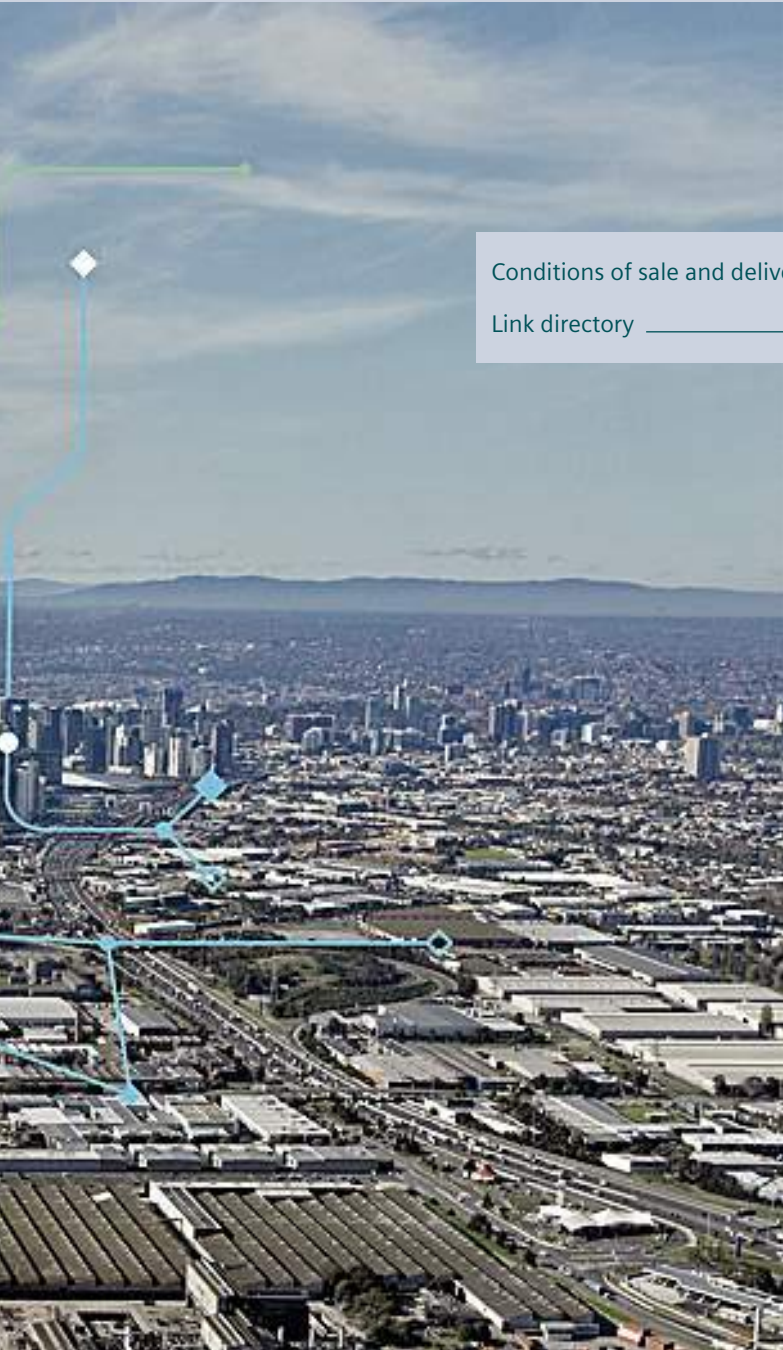
You can find comprehensive information on the 3VL molded case circuit breaker in the catalog extract.

3VL molded case circuit breakers

www.siemens.com/lowvoltage/catalogs (109769073)



Appendix



Conditions of sale and delivery _____ A/2

Link directory _____ A/4

Conditions of sale and delivery

1. General Provisions

By using this catalog you can purchase hard- and software products as well as services (together hereinafter referred to as "products") described therein from Siemens Aktiengesellschaft subject to the following Terms and Conditions of Sale and Delivery (hereinafter referred to as "T&C"). Note, for products purchased from any Siemens entity having a registered office outside of Germany, the respective terms and conditions of sale and delivery of the respective Siemens entity apply exclusively. The following T&C apply exclusively for orders placed with Siemens Aktiengesellschaft, Germany.

1.1 For customers with a seat or registered office in European Union

For customers with a seat or registered office in European Union, the following terms and conditions apply subordinate to T&C:

- for products, which include specific terms and conditions in the text of the product description, these specific terms and conditions shall apply and subordinate thereto,
- for stand-alone software products and software products forming a part of a product or project, the "General Conditions for Software Products for Infrastructure & Industry Business (German law)"¹⁾ and/or
- for consulting services the "Allgemeine Geschäftsbedingungen für Beratungsleistungen für Infrastructure & Industry Geschäft (Deutsches Recht)"¹⁾ (available only in German) and/or
- for other services, the "Supplementary Terms and Conditions for Services for Infrastructure & Industry Business (German Law) ("BL")"¹⁾ and/or
- for other products the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾.

In case such products should contain Open Source Software, the conditions of which shall prevail over the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾, the Product will be given a note as to which special conditions apply to this open source software. This shall apply mutatis mutandis for notices referring to other third-party software components.

1.2 For customers with a seat or registered office outside European Union

For customers with a seat or registered office outside European Union, the following terms and conditions apply subordinate to T&C:

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for consulting services the "Standard Terms and Conditions for Consulting Services for Infrastructure & Industry Business (Swiss Law)"¹⁾ and/or
- for other services the "International Terms & Conditions for Services"¹⁾ supplemented by "Software Licensing Conditions"¹⁾ and/or
- for other products the "International Terms & Conditions for Products"¹⁾ supplemented by "Software Licensing Conditions"¹⁾

1.3 For customers with master or framework agreement

To the extent products offered are covered by an existing master or framework agreement, the terms and conditions of that agreement shall apply instead of T&C.

2. Additional Terms and Conditions

The dimensions are in mm. In Germany, according to the German law on units in measuring technology, data in inches apply only to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the individual pages of this catalog – especially with regard to data, dimensions and weights given – these are subject to change without prior notice.

¹⁾ The text of the Terms and Conditions of Siemens AG can be downloaded at https://mall.industry.siemens.com/legal/ww/en/terms_of_trade_en.pdf

3. Export Control and Sanctions Compliance

3.1 General

Customer shall comply with all applicable sanctions, embargoes and (re-)export control laws and regulations, and, in any event, with those of the European Union, the United States of America and any locally applicable jurisdiction (collectively "Export Regulations").

3.2 Checks for Products

Prior to any transaction by customer concerning products (including hardware, documentation and technology) delivered by Siemens, or products (including maintenance and technical support) performed by Siemens with a third party, customer shall check and certify by appropriate measures that

- (i) the customer's use, transfer, or distribution of such products, the brokering of contracts or the provision of other economic resources in connection with products will not be in violation of any Export Regulations, also taking into account any prohibitions to circumvent these (e.g., by undue diversion)
- (ii) the products are not intended or provided for prohibited or unauthorized non-civilian purposes (e.g. armaments, nuclear technology, weapons, or any other usage in the field of defense and military);
- (iii) customer has screened all direct and indirect parties involved in the receipt, use, transfer, or distribution of the products against all applicable restricted party lists of the Export Regulations concerning trading with entities, persons and organizations listed therein and
- (iv) products within the scope of items-related restrictions, as specified in the respective annexes to the Export Regulations, will not, unless permitted by the Export Regulations, be (a) exported, directly or indirectly (e.g., via Eurasian Economic Union (EAEU) countries), to Russia or Belarus, or (b) resold to any third party business partner that does not take a prior commitment not to export such products to Russia or Belarus.

3.3 Non-Acceptable Use of Software and Cloud Services

Customer shall not, unless permitted by the Export Regulations or respective governmental licenses or approvals,

- (i) download, install, access or use the products from or in any location prohibited by or subject to comprehensive sanctions or subject to license requirements according to the Export Regulations;
 - (ii) grant access to, transfer, (re-)export (including any "deemed (re-)exports"), or otherwise make available the products to any entity, person, or organization identified on a restricted party list of the Export Regulations;
 - (iii) use the products for any purpose prohibited by the Export Regulations (e.g. use in connection with armaments, nuclear technology or weapons);
 - (iv) upload to a products platform any customer content unless it is non-controlled (e.g. in the EU: AL = N; in the U.S.: ECCN = N or EAR99);
 - (v) facilitate any of the afore mentioned activities by any user.
- Customer shall provide all users with all information necessary to ensure compliance with the Export Regulations.

3.4 Semiconductor Development

Customer will not, without advance written authorization from Siemens, use offerings for the development or production of integrated circuits at any semiconductor fabrication facility located in China meeting the criteria specified in the U.S. Export Administration Regulations, 15 C.F.R. 744.23.

3.5 Information

Upon request by Siemens, customer shall promptly provide Siemens with all information pertaining to users, the intended use and the location of use or the final destination (in the case of hardware, documentation and technology) of the products. Customer will notify Siemens prior to customer disclosing any information to Siemens that is defense-related or requires controlled or special data handling pursuant to applicable government regulations, and will use the disclosure tools and methods specified by Siemens.

3.6 Reservation

Siemens shall not be obligated to fulfill this agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions. Customer acknowledges that Siemens may be obliged under the Export Regulations to limit or suspend access by customer and/or users to products.

4. Miscellaneous

Errors excepted and subject to change without prior notice.

Link directory

Catalog LV 10

General information

Information on low-voltage power distribution and electrical installation technology	www.siemens.com/lowvoltage
Tender specifications	www.siemens.com/tenderspecifications
Conversion tool	www.siemens.com/conversion-tool
Image database	www.siemens.com/lowvoltage/picturedb
CAX download manager	www.siemens.com/cax
Newsletter system	www.siemens.com/lowvoltage/newsletter
Siemens YouTube channel	www.youtube.com/Siemens
Catalog LV 10	www.siemens.com/lv10
Catalog LV 13	www.siemens.com/lv13
Catalog LV 18	www.siemens.com/lv18
Brochures/catalogs	www.siemens.com/lowvoltage/catalogs
Operating instructions/manuals	www.siemens.com/lowvoltage/manuals
SiePortal (knowledge base)	www.siemens.com/lowvoltage/product-support
SiePortal (product catalog)	www.siemens.com/lowvoltage/product-catalog
My Documentation Manager (MDM)	www.siemens.com/lowvoltage/mdm
Configurators	www.siemens.com/lowvoltage/configurators
Direct forwarding to SiePortal	www.siemens.com/product_catalog_SIEP?Article No.
Training	www.siemens.com/sitrain-lowvoltage
Local contacts	www.siemens.com/lowvoltage/contact www.siemens.com/lowvoltage/components/contact www.siemens.com/lowvoltage/systems/contact www.siemens.com/lowvoltage/software/contact
Technical Support	www.siemens.com/support-request
Information on services	www.siemens.com/service-offers
Control panels for the North American market	www.siemens.com/northamerican-standards
Integrated Control Panels	www.siemens.com/controlpanel
Energy savings and amortization	www.automation.siemens.com/sinasave
SIMATIC Energy Suite	www.siemens.com/energysuite
SITOP power supplies	www.siemens.com/sitop
Power distribution with Totally Integrated Power	www.siemens.com/tip
TIA Selection Tool	www.siemens.com/tst
Electrical Product Finder	www.siemens.com/electrical-product-finder
Sustainability	www.siemens.com/sustainability

Catalogs and further information



LV 10
Low-Voltage Power Distribution and Electrical Installation Technology
SENTRON • SIVACON • ALPHA
PDF (E86060-K8280-A101-B8-7600)



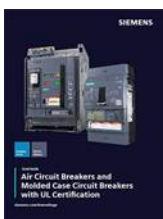
ET D1
Switches and Socket Outlets
DELTA
PDF (SIEP-C10409-00-7600)



LV 13
3WA Air Circuit Breakers
SENTRON
PDF (E86060-K8280-B101-A2-7600)



SiePortal
Information and Ordering Platform on the Internet:
sieportal.siemens.com



LV 18
Air Circuit Breakers and Molded Case Circuit Breakers with UL Certification
SENTRON
PDF (E86060-K8280-E347-B1-7600)



SITRAIN
Digital Industry Academy
www.siemens.com/sitrain



IC 10
Industrial Controls
SIRIUS
PDF (E86060-K1010-A101-B6-7600)



Siemens TIA Selection Tool
for the selection, configuration and ordering of TIA products and devices
www.siemens.com/tst



The catalogs listed above and additional catalogs are available in PDF format at www.siemens.com/lowvoltage/catalogs

Further information on low-voltage power distribution and electrical installation technology is available on the Internet at www.siemens.com/lowvoltage

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Cybersecurity information

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e. g. firewalls and/or network segmentation) are in place.

For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry.

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under www.siemens.com/cert.

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