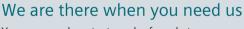


Consistent, safe and intelligent low-voltage power distribution and electrical installation technology

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

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



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Catalog LV 10 · 10/2019

THE CHIEF

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

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

Technical data

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

All illustrations are not binding.

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Low-Voltage Power Distribution and Electrical Installation Technology

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3VA molded case circuit breakers are available in various ranges with IEC approval; other ranges at 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



(i) All the important things at a glance

Information to get you started

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



Contact persons in your region

We are there when you need us

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



Your product in detail

The Siemens Industry Online Support portal provides comprehensive information

www.siemens.com/lowvoltage/product-support

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

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

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Siemens YouTube channel

Our video range

• 3VA molded case circuit breakers (general) bit.ly/2xNxIFA



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Molded case circuit breakers sie.ag/2mmLcAk

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



Configurators

Exactly the right circuit breaker for your application

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your 3VA molded case circuit

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

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

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

... can be found in our online services

Commissioning + operation



Configuration software

powerconfig

The combined commissioning and service tool for communication-capable measuring devices and circuit breakers from the SENTRON family.

www.siemens.com/powerconfig



Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions 3VA10 3VA25, 3VA27
- Characteristic curves
- Certificates

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



■ Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

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

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

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Training and tutorials

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

- Protection systems in low-voltage power distribution (WT-LVAPS)
- Communication with SENTRON components (LV-COM)



Technical overview of molded case circuit breakers



The fast way to get you to our online services

This page provides you with comprehensive information and links on molded case circuit breakers www.siemens.com/lowvoltage/product-support (109767421)

Molded case circuit breakers for all applications



3VA10 ... 3VA15 molded case circuit breakers

Setting standards for standard applications

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

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

Special features

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



3VA20 ... 3VA25 molded case circuit breakers

The power to deliver in demanding applications

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

Special features

- Very good selective protection response
- AC applications
- No derating up to +50 °C
- Integrated metering function
- Connection to a communication system
- Performance range from 25 ... 1000 A



3VA27 molded case circuit breaker

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

Special features

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

Basic units and accessories













Protective functions	3VA10	3VA11	3VA12	3VA13	3VA14	3VA15 new
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

Accessories							
Size	100 A	160 A	250 A	400 A	630 A	1000 A	
Accessories							
Auxiliary switches and signaling switches							
Auxiliary releases		-					
Connection technology	•	-					
Plug-in version	-	-				-	
Withdrawable	-	-				-	
Front rotary operating mechanism	•						
Door mounted rotary operator							
Side wall mounted rotary operator	•	-				-	
MO310 motor operator (mounted onto the side)	-			-	-	-	
MO320 motor operator (mounted onto the front)	-					-	
Motor operator with SEO520 stored energy operator	-	-	-	-	-	-	
Motor operator (MO), integrable	_	_	-	-	-	-	
Locking, blocking and interlocking							
Residual current device (mounted onto the side)	-			-	-	-	
Residual current device (mounted underneath)	-			-	-	-	
Communications interface	-	-	-	-	-	-	
EFB300	-	-	-	-	-	-	
TD300, TD400 and TD500	-	-	-	-	-	-	
Cover frame	•	-	-	•			
DIN rail adapter	•	-	-	-	-	-	
Busbar adapter				•		-	

[■] Available - Not available/not present

^{*} On request



100 A	160 A	250 A	400 A	630 A	1000 A	1600 A
•	-		•	•		•
•			•	•		
•	-	-	•	•	•	•
•			•	•	-	-
					-	
				•		
	-				-	-
-	-	-	-	-	-	-
				•	-	-
			-	-	-	-
-	-	-	-	_	-	•
	-			•		
-	-	-	-	-	-	-
	-			•	-	-
	-			•		•
	-	-	•		•	
	-	-	•	•		•
	-	-	•	•		•
-	-	-	-	-	-	-
					-	-

3VA1 basic units up to 1000 A

Technical data

										5		
				3VA10)		3VA11	1		3VA1	1	
Electrical charac	teristics according to IEC 60947-2											
Number of poles				3/4-pole		1-pole			2-pole			
Size			100 A				160 A			160 A		
Rated operational	current I _n at 50 °C ambient temperature		1	6 100	Α	1	6 160	A	1	16 160 A		
Rated operational	voltage U _e 50/60 Hz AC			690 V			415 V			415 V		
Rated insulation vo	oltage U _i			800 V			500 V			500 V		
Rated impulse with	hstand voltage U _{pulse}			8 kV			8 kV			8 kV		
Use in IT networks				•								
Frequency			C) 400 H	lz	(400 H	Iz	(0 400 ⊦	z	
Breaking capaci	ty		В	N	S	N	S	М	N	S	М	
Rated ultimate sh	nort-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	125 V (1 switching pole)	kA	-	-	-	16	25	30	16	25	30	
	250 V (2 switching poles)	kA	25	36	55	-	-	-	36	55	85	
	500 V (3 switching poles)	kA	25	36	55	-	-	-	-	-	-	
	600 V (4 switching poles)	kA	8	16	25	-	-	-	-	-	-	
Rated operationa	l 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 (1 switching pole)	kA	-	-	-	16	25	30	16	25	30	
	250 V (2 switching poles)	kA	25	36	55	-	-	-	36	55	85	
	500 V (3 switching poles)	kA	25	36	55	-	-	-	-	-	-	
	600 V (4 switching poles)	kA	8	16	25	-	-	-	-	-	-	
Dimensions												
D C S	A	mm	76.2 (3P) 101	.6 (4P)		25.4			50.8		
B B C C C C C C C C C C C C C C C C C C	В	mm		130		130			130			
Se la	C	mm	70			70			70			
D		mm		88			88			88		
■ Available – N	Not available/not present * On re	equest										











	3V	A11			3VA12	2		3V/	A13		3VA14			3VA15 new				
	3/4-	pole			3/4-pole			3/4-	pole		3/4-pole					3/4-pole		
	16	0 A			250 A			40	0 A			63	0 A			1000 A		
	16	160 A		160 250 A				320	. 400 A		500 630 A				(530 1000	Α	
	69	0 V		690 V			69	0 V			69	0 V			690 V			
	80	0 V			800 V			80	0 V			80	0 V					
	8	kV			8 kV			8	kV			8	kV					
					•								•			Up to 500 V		
		100 Hz			0 400 ⊦				00 Hz				00 Hz			0 400 Hz		
N	S	М	Н	S	М	Н	S	М	Н	С	S	М	Н	С	M	Н	С	
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	85	110	
16	25	36	55	25	36	36	*	*	*	*	*	*	*	*	*	*	*	
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	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
36	55	85	100	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	-	-	-	
16	25	36	55	25	36	55	8	16	25	25	8	16	25	25	-	-	-	
36	55	85	100	55	85	100	55	85	100	200	55	85	100	200	85	110	150	
25	36	55	70	36	55	70	36	55	70	110	36	55	70	110	55 *	85	110	
16	25	36	40	25	36	36	*	*	*	*	*	*	*			*		
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	
-	-	-	100	-	-	100	-	1.0	-	-	-	16	-	-	_	_	-	
36	55	85	100	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	_	_	_	
16	25	36	55	25	36	55	8	16	25	25	8	16	25	25	_	_	_	
71	5 2 (3P) I	101.6 (4	IP)	105	(3P) 140) (4P)		138 (3P)	184 (4P)		138 (3P)	184 (4P)	211	0 (3P) 280	(4P)	
			248 320			(11)												
		'0			70				10		110				120			
		38			88				37						253			
					- 00				.		137			253				

3VA1 basic units up to 1000 A

Application

			b against			
			3VA10	3VA11	3VA11	
Electrical characteristics	according to IEC 60947-2					
Number of poles			3/4-pole	1-pole	2-pole	
Size			100 A	160 A	160 A	
Rated operational current I _n a	at 50 °C ambient temperature		16 100 A	16 160 A	16 160 A	
3VA1 molded case circuit	breakers for line protection, standard app	lications	(IEC 60947-2)			
Service life (make-break op	perations)					
Mechanical (NO contact – No	C contact)		20000	20000	20000	
Electrical	380 415 V I _n		9000	9000	9000	
	I _n /2		15000	15000	15000	
	690 V		6300	6300	6300	
Trip Units						
TM210	FTFM					
TM220	ATFM		-	-	-	
TM240	ATAM		-	-	-	
3VA1 molded case circuit	breakers for starter protection (IEC 60947	-4-1 stan	dards and specifications	acc. to AC-1)		
Rated operational current I _n a	at 50 °C ambient temperature	Α	-	-	-	
Service life (switching cycle	es)					
Mechanical (NO contact – No	C contact)		-	-	-	
Electrical	380 415 V		-	-	-	
Trip Units						
TM120M	AM		_	-	-	
Switch disconnectors (IEC						
Electrical characteristics ac						
	I _u at 50 °C ambient temperature	Α	-	-	-	
Rated operational voltage U _e		V	-	-	-	
Rated operational voltage U _e		V	-	-	-	
	iit current I_q with upstream 3VA1 circuit breaker	kA	-	-	-	
Permissible rated short-time	current I _{cw} (1 s)	kA	-	-	-	

⁻ Not available/not present

^{*} On request



3VA2 basic units up to 1600 A

Technical data

				100				110			
				3V	A20			3V	A21		
Electrical charact	teristics according to IEC 60947-2										
Number of poles				3/4-	pole			3/4-	pole		
Size				10	0 A		160 A				
Rated operational of	current I _n at 50 °C ambient temperature			25	100 A			25	160 A		
Rated operational v	oltage U _e 50/60 Hz AC			69	0 V			69	0 V		
Rated insulation vo		80	0 V			80	0 V				
Rated impulse with		8	kV			8	kV				
Use in IT networks				I	•			I			
Frequency				50/6	50 Hz			50/6	0 Hz		
Breaking capacit	у		М	Н	С	L	M	Н	С	L	
Rated ultimate sh	ort-circuit breaking capacity I _{cu}										
50/60 Hz AC	220 240 V	A	85	110	150	200	85	110	150	200	
	380 415 V	Α	55	85	110	150	55	85	110	150	
	440 V	Α	55	85	110	150	55	85	110	150	
	500 V	А	36	55	85	100	36	55	85	100	
	690 V	Α	2	2	2	25	2.5	2.5	2.5	25	
DC	125 V (1 switching pole)	A	-	-	-	-	-	-	-	-	
	250 V (2 switching poles)	A	-	-	-	-	-	-	-	-	
	500 V (3 switching poles)	A	-	-	-	-	-	-	-	-	
	600 V (4 switching poles)	A	-	-	-	-	-	-	-	-	
Rated service short	rt-circuit breaking capacity I _{cs}										
50/60 Hz AC	220 240 V	A	85	110	150	200	85	110	150	200	
	380 415 V	A	55	85	110	150	55	85	110	150	
	440 V	А	55	85	110	150	55	85	110	150	
	500 V	А	36	55	85	100	36	55	85	100	
	690 V	Α	2	2	2	18	2.5	2.5	2.5	18	
DC	125 V (1 switching pole)	Α	-	-	-	-	-	-	-	-	
	250 V (2 switching poles)	Α	-	-	-	-	-	-	-	-	
	500 V (3 switching poles)	Α	-	-	-	-	-	-	-	-	
	600 V (4 switching poles)	Α	-	-	-	-	-	-	-	-	
Dimensions											
- D -	A	mm		105 (3P)	140 (4P))		105 (3P)	140 (4P))	
100	В	mm		1	81			1	81		
N SEO_01185	С	mm		3	36		86				
	D	mm		1	07		107				
■ Available – N	ot available/not present * On reques	st									











		17.0																
	3V	422			3V/	A23			3V/	\24			3VA2	5		3VA27	,	
	3/4-	pole			3/4-	pole			3/4-	pole			3/4-pole			3/4-pole		
	25	0 A		400 A					63	0 A			1000 A			1600 A		
	160	. 250 A			250	400 A		400 63			400 630 A 630			80 1000	A C	800 1600 A		Α
	69	0 V			69	0 V			69	0 V			690 V			690 V		
	80	0 V			80	0 V			80	0 V			800 V			1000 V		
	8	kV			8	kV			8	kV			8 kV			8 kV		
	- 1	•				•			- 1	•			-			-		
		0 Hz				0 Hz				0 Hz			50/60 Hz			50/60 Hz		
М	Н	С	L	М	Н	С	L	М	Н	С	L	М	Н	С	M	Н	С	
85	110	150	200	85	110	150	*	85	110	150	*	85	110	200	100	150	200	
55	85	110	150	55	85	110	*	55	85	110	*	55	85	110	55	85	110	
55	85	110	150	55	85	110	*	55	85	110	*	*	*	*	55	85	100	
36	55	85	100	36	55	85	*	36	55	85	*	36	55	85	36	55	85	
3	3	3	25	5	5	5		6	6	6		25	35	35	25	36	50	
-	-	-	-	-	_	-	_	-	-	-	_	-	-	-	-	-	-	
-	-	-	-	-	_	_	_	-	-	-	_	-	_	-	_	-	-	
_	-	-	-	-	_	_	_	-	-	-	_	-	_	-	_	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
85	110	150	200	85	110	150	*	85	110	150	*	85	110	150	100	150	200	
85 55	85	110	150	55	85	110	*	55	85	110	*	55	85	110	55	85	110	
55	85	110	150	55	85	110	*	55	85	110	*	33 *	*	*	55	85	100	
36	55	85	100	36	55	65	*	36	55	85	*	36	55	65	36	55	63	
3	3	3	18	5	5	5	*	6	6	6	*	19	19	19	25	36	36	
		_	-	_	_	_	_	_	_	_	_	-	-	-	_	_		
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
_	_	_	_	_	-	_	-	_	-	-	_	-	-	_	_	-	-	
		140 (4P)		138 (3P)	184 (4P)			138 (3P)	184 (4P)		210 (3P) 280 (4P)			210	(3P) 280	(4P)	
		81			24	48			24	18		320				291		
	8	36			1	10			1.	10	120			171 (toggle operating mechanism) 183 (stored energy operating mechanism)				
	1	07			13	37		137 253 225			253							

3VA2 basic units up to 1600 A

Application

		b	
		3VA20	3VA21
Electrical characteristics	s according to IEC 60947-2		
Number of poles		3/4-pole	3/4-pole
Size		100 A	160 A
Rated operational current I	_n at 50 °C ambient temperature	25 100 A	25 160 A
Service life (make-break	operations)		
Mechanical (NO contact –	NC contact)	25000	25000
Electrical	380 415 V I _n	15000	14000
	I _n /2	20000	20000
	690 V	10500	9800
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 circu	it breakers for motor/starter protection (IEC 60947-4	-1 standards and specifications acc. to F	AC-1)
Rated operational current I	_n at 50 °C ambient temperature	-	25 100 A
Service life (make-break	operations)		
Mechanical (NO contact –	NC contact)	-	25000
Electrical	380 415 V	-	14000
Trip units			
ETU310M	T. Comments of the Comments of	-	•
ETU350M	LSI	-	•
ETU550M	LSI	-	•
ETU860M	LSIG	-	•
ETU320	Ш	-	-
ETU350	LSI	-	-
ETU360	LSIG	-	-
ETU650	LSIG	-	-
ETU660	LSIG	-	-
■ Available – Not availab	ole/not present * On request		



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
	TM240 1,/A 1,/A 1,/A 1,/A 1,1/A	ETUS50 LSI	ETU550M LSI A ESC COM AL1 AL2 OK CEC	ETU860M LSIG ACT COM AL1 AL2 V OK C
	TM 2-series	ETU 3-series	ETU 5-series	ETU 8-series
Protection function				
Line protection	TM210, TM220, TM240	ETU320, ETU330, ETU340, ETU350	ETU550, ETU560	ETU850, ETU860
Starter protection	TM120M	ETU310M	-	-
Motor protection	-	ETU350M	ETU550M	ETU860M
Integrated functions		Catting and reading the	Catting and reading the	Catting and reading the negrounding
Parameterizing	Setting and reading the parameters • In A	Setting and reading the parameters • In A and s	Setting and reading the parameters • Via display and communication • Fine setting of the parameters • Reading the measured values	 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	24 V module for continuous power
			power supply (also without primary current through the molded case circuit breaker)	supply (also without primary current through the molded case circuit breaker)
External function box				•
	-	EFB300 external function box for connection to the ETU	EFB300 external function box for connection to the ETU	EFB300 external function box for connection to the ETU
Communication module				
	-	-	COM060 communication module	COM060 communication module
Breaker data server				
	-	-	COM800/COM100 breaker data server with interface to PROFIBUS PROFINET Modbus RTU Ethernet (Modbus TCP)	COM800/COM100 breaker data server with interface to PROFIBUS PROFINET Modbus RTU Ethernet (Modbus TCP)
External display			400 mm	
	-	-	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

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

	TM120M	TM210	TM220	TM240
	AM	FTFM	ATFM	ATAM
Protections				
Starter protection		-	-	-
Line protection	-	•	•	•
Version available with				
1-pole and 2-pole breakers	-		-	-
3-pole breaker		•	•	•
4-pole breaker	-		•	
Available protection parameters				
I _r adjustable	-	-	•	
l _i adjustable	•	-	-	•
I _r fixed	-		-	-
I _i fixed	-	•		-
_N 1)	-	•	•	•

^{3 3}VA10 only without N protection 3VA11, 3VA12, 3VA13, 3VA14 without, 50% or 100% N protection 50% N protection from In ≥100 A

Protection functions of the 3VA2 with electronic trip unit

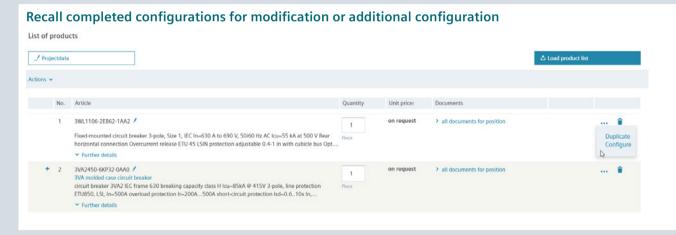
	ETU310M	ETU320	ETU330	ETU340	ETU350	ETU350M	ETU550	ETU550M	ETU560	ETU850	ETU860	ETU860M
	1	LI	LIG	ELISA®	LSI	LSI	LSI	LSI	LSIG	LSI	LSIG	LSIG
Protection												
Starter protection		-	-	-	-	-	-	-	-	-	-	-
Motor protection	-	-	-	-	-		-		-	-	-	
Line protection	-					-		-				-
Generator protection	-			-	-	-		-			-	-
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	l²t	l²t	l²t	I ⁴ t	l²t	l²t	l²t	l²t	l²t	l²t	l²t	l²t
l _r	-				-							
t_r at $6 \times I_r$	-			-	-	-	-	-	•	-	-	-
t _c	-	-	-	-	-		-	•	-	-	-	
t _p	-	-	-	-	-	-	-		-	-	-	
Thermal image				-	-					-	-	
Thermal image can be switched on/off	-	-	-	-	-	-	•	-	•	•	•	-
I _{sd}	-	-	-	-								
t_{sd} at $8 \times I_r$	-	-	-	-	-				•		-	
Characteristic in S range: I ² t _{sd}	-	-	-	-	-	-		-		-	-	-
Characteristic in S range: selectable I ² t _{sd} / t _{sd}	-	-	-	-	-	-	•	-	•	•	•	-
l _i					•						•	
I _N 1)	-				-	-	-	-			-	-
l _g	-	-		-	-	-	-			-	•	
t_g at 2 × I_g	-	-		-	-	-	-			-		
Characteristic in G range: I ² t _g	-	-		-	-	-	-		•	-	-	
Characteristic in G range: selectable I ² t _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

Online configurator highlights

siemens.com/lowvoltage/configurators



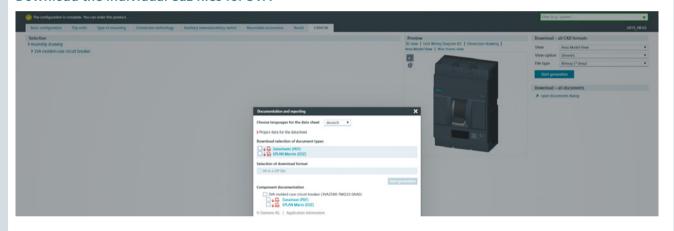




www.siemens.com/lowvoltage/3va-configurator and www.siemens.com/lowvoltage/3va27-configurator



Download the individual edz files for 3VA



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



System overview

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

Basic units







3VA2 for selective applications

Trip unit



Thermal-magnetic trip



Electronic trip unit (ETU)



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

Trip unit accessories



24 V module



tion module



server



display



unit (TMTU)

Installation type

function

Supplementary accessories



Fixed-mounted



ದದದ Draw-out unit, complete kit



ದೆದೆದ Plug-in unit, complete kit



Auxiliary circuit connector



feedthrough signaling switch





Cylinder lock Crank adapter

Main conductor connection



Front bus connectors extended



Front bus connectors offset



Circular conductor Box terminal



terminals

Connection accessories



Insulation accessories

Auxiliary releases/auxiliary switches



releases



release



release



switch





signaling switch switch LCS





switches EAS



Mountable accessories







Manual operator

Motorized operating mechanism

Residual current device

Additional circuit breaker accessories







Cover frame Adapter for DIN rails

Mechanical interlocks











Locking device

Sliding bar interlock

Interlocking with rod

Handle interlock using a Bowden cable

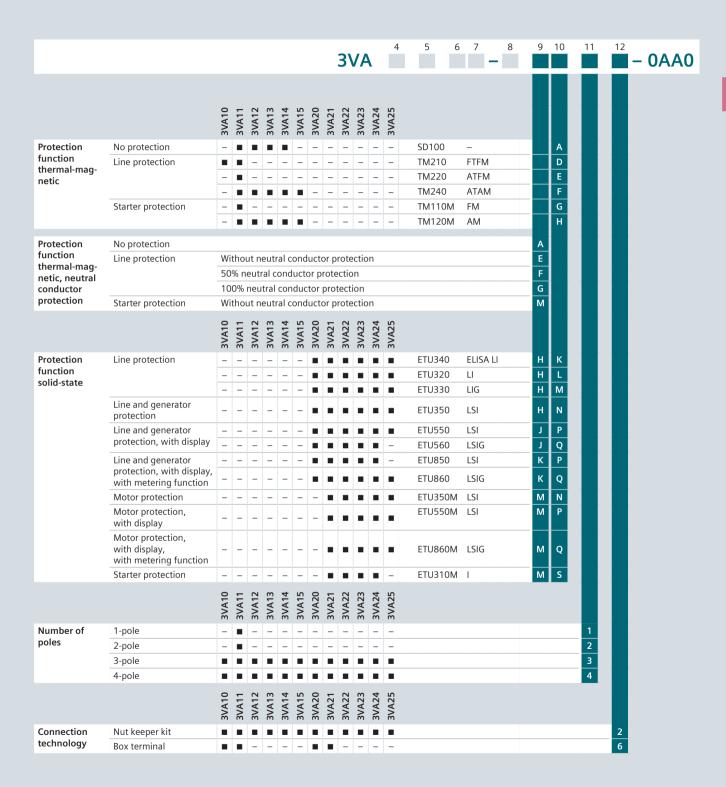
Cylinder lock

Structure of the article numbers

Basic configuration

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

										יכ	1	۸	4	5	6		7	8	8	9	10	11	12	_ 4	^ ^	Λ
										3	V /	1												_ (OA	A
Trip units	Thermal-magnetic												1			ł	-		-							
mp umes	Electronic												2			ı	-									
	Electronic												ù			ı	-									
Size	100 A													0		ı										
	160 A													1		ı										
	250 A													2		ı										
	400 A													2 3 4 5		ı										
	630 A													4		ı										
	1000 A													5		ı										
		10	1	12	13	14	15	20	121	75	23	24	25			ı	-		1							
		3VA10	3VA11	3VA12	3VA13	3VA14	3VA15	3VA20	3VA21	3VA22	3VA23	3VA24	3VA25			ı			ı							
Current setting of	8 A	_	•	-	-	-	-	-	-	-	-	_	-		0		8									
the inverse-time delayed overload	12.5 A	_		_	_	_	_	_	-	-	-	_	-		9		2 6									
protection	16 A	•	•	-	-	-	-	_	-	_	-	-	-		9		_									
	20 A	•	-	_	_	-	_	_	_	_	-	_	-		2		0									
	25 A		-	_	_	-	_	•	•	_	-	_	_		2	1	5 2									
	32 A			_	-	_	_	_	-	_	_	_	-		3											
	40 A			_	_	-	_		-	-	-	_	-		4 5	1	0									
_	50 A			_	-	-	_	_	-	-	-	-	-				0									
	63 A			_	-	-	_			-	-	-	-		6		3									
	80 A			_	-	_	_	_	_	_	_	_	-		8	1	0									
	100 A			_	_	_	_			-	_	-	-		1	Ţ	0									
	125 A	_		_	_	-	_	_	-	_	_	_	-		1		2									
	160 A	_	•		_	-	_	_	•	•	_	_	-		1		6									
	200 A	-	_	•	-	-	_	-	_	-	-	_	-		2	1	0									
	250 A	-	_	•	-	-	_	-	_	•		_	-		2	1	5 2									
	320 A	-	-	_	•	-	_	-	-	-	-	_	-		3		2									
	400 A	-	-	-	•	-	_	-	-	-			-		4	4	0									
	500 A	-	-	-	-	•	-	-	-	_	-		-		5		0									
	630 A	-	-	-	-	•		-	-	_	_				6		3									
	800 A	-	-	-	-	-	•	-	-	-	-	-			8		0									
	1000 A	_	-	-	-	-	•	-	-	-	-	-			1		0									
		3VA10	3VA11	412	3VA13	۸14	415	3VA20	3VA21	3VA22	3VA23	3VA24	3VA25						1							
		37/	37,	37,	37,	37,	37,	37,	37,	37,	37,	37,	3V,													
Short-circuit breaking capacity I _{cu} = I _{cs} at	Without overload protection, without short-circuit protection	-	•	•			-	-	-	-	-	-	-						1							
I _{cu} = I _{cs} at 380 415 V	16 kA		-	_	-	-	_	_	_	_	_	_	_						2							
	25 kA			_	-	-	_	-	_	_	_	_	_						3							
	36 kA		•		•		_	_	_	_	_	_	_						4							
	55 kA	-			•			•		-		•							5							
	70 kA	-		•	•	•		_	_	_	_	_							6							
	85 kA	-	-	_	-	-	_	-		-									2 3 4 5 6 6 7							
	110 kA	-	-	_	•	•													7							
	150 kA	-	_	_	_	_	_				_	_	_						. 1							



System overview, page 2/20 Siemens LV 10 · 10/2019 2/23

Internal accessories

Auxiliary switches and alarm switches

Configure your molded case circuit breaker easily online at www.siemens.com/lowvoltage/configurator-3VA

										3VA20
										3VA21
										3VA22
								3VA12		3VA23
								3VA13		3VA23
						3VA10	3VA11	3VA14	3VA15	3VA24
Auxiliary	switches	AUX				JVAIO	JVAIT	JVAIT	JVAIS	JVAZJ
Auxiliary			the nos	sition of the mai	n contacts of					
		molded ca								
				uxiliary switch a	nd the molded					
_				ose in unison						
	Туре	Width	l _e	U _e AC/DC	Version					_
	HQ	7 mm	6 A	240 V/250 V	Standard			3VA9988-0AA12		
		(1 slot)	<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 o	changeov	er switche	es LCS							
				ng, for example the main conta	cts with a lead					
				ince of circuit br						
6	Туре	Width	l _e	U _e AC/DC	Version					
	HQ	7 mm	6 A	240 V/250 V	Standard	-		3VA998	8-0AA22	
		(1 slot)	<1 A	24 V/24 V	Electronic- compatible	-		3VA998	8-0AA23	
	НР	14 mm (2 slots)	10 A	600 V/250 V	Standard	-		3VA998	8-0AA21	
Trip alarr	n switche	s TAS								
	• Are	actuated v	whenev	reaker tripping o er the molded ca ne TRIP position						
<u> </u>	Type	Width	I _a	U AC/DC	Version					
	HQ	7 mm	6 A	240 V/250 V	Standard			3VA9988-0AB12		
		(1 slot)	<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 circ	cuit alarm	switches	SAS							
				tions only if they	have been					
	initi	iated by a s	short cir	rcuit						
	ackı	nowledger	nent of	n must be reset the fault before	the molded					
				an be switched t						_
	Туре	Width	l _e	U _e AC/DC	Version	21/40002 2122	21/40000 0122	21/40000 2:25	21/40002 2122	
	HQ	7 mm (1 slot)		240 V/250 V			3VA9988-0AB32			-
		(1 5101)	<1 A	24 V/24 V	Electronic- compatible	3VA9988-0AB33	3VA9988-0AB33	3VA9988-0AB35	3VA9988-0AB37	-
Electrical	l alarm cu	vitches EA	S							
Liectrical				as the main con	tacts of the					
	mol	lded case o	ircuit bi	reaker open in the by the ETU						
	Туре	Width	I _a	U _a AC/DC	Version					
	HQ	7 mm	6 A	240 V/250 V	Standard	-	-	-	-	3VA9988-0AB22
		(1 slot)		24 V/24 V	Electronic- compatible	-	-	-	-	3VA9988-0AB23
May .										

Auxiliary releases

Configure your molded case circuit breaker easily online at

www.siem						
		3 3		3VA10		
				3VA11	3VA20	
				3VA12	3VA21	
				3VA13	3VA22	
				3VA14	3VA23	277.22
	C 071			3VA15	3VA24	3VA25
Shunt trips le						
	breaker • Have particula	ote-controlled tripping of arly low power consump	tion			
_		table for electrical interlo				
	Version	U _e 50/60 Hz AC	U _e DC			
1444	Standard		12 V		3VA9988-0BL10	
Set MEAS		24 V	24 30 V		3VA9988-0BL30	
		48 60 V	48 60 V		3VA9988-0BL31	
		110 127 V	110 127 V		3VA9988-0BL32	
		208 277 V	220 250 V		3VA9988-0BL33	
		380 600 V	-		3VA9988-0BL20	
	Electrical (EI)	-	24 V		3VA9988-0BM10	
Shunt trips fl						
	Used for remo breakerFlexible instal	ote-controlled tripping of llation	the molded case circuit			
ACTION .	Version	U _e 50/60 Hz AC	U _e DC			
2444		24 V	-	-	3VA9988-0BA20	-
SHARES		48 60 V	-	-	3VA9988-0BA21	-
(本)		110 127 V	-	_	3VA9988-0BA22	-
		208 277 V	_	-	3VA9988-0BA23	-
		380 500 V	-	-	3VA9988-0BA24	-
		600 V	_	-	3VA9988-0BA25	-
المسامعين أميال						
Universal rei	eases UNI					
universal rei		of shunt release and und	lervoltage release			
Universal rei		of shunt release and und U _e 50/60 Hz AC	lervoltage release U _e DC	_	_	_
Universal rei	Combination			_	3VA9908-0BD11	_
Universal rei	Combination		U _e DC		3VA9908-0BD11 3VA9908-0BD12	
Universal reio	Combination		U _e DC 12 V			
	Combination	U _e 50/60 Hz AC - -	U _e DC 12 V 24 V		3VA9908-0BD12	
	Combination Version e releases UVR Trips the mole	U _e 50/60 Hz AC ded case circuit breaker in nonitored circuit drops be	U _e DC 12 V 24 V		3VA9908-0BD12	
	Combination Version e releases UVR Trips the mole voltage of a m	U _e 50/60 Hz AC ded case circuit breaker in nonitored circuit drops be	U _e DC 12 V 24 V 48 V n the event that the rated		3VA9908-0BD12	
	Combination Version Pereleases UVR Trips the mole voltage of a management of the limit or fails along the voltage.	U _e 50/60 Hz AC ded case circuit breaker in nonitored circuit drops be ltogether	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible		3VA9908-0BD12	
	Combination Version Pereleases UVR Trips the mole voltage of a management of the limit or fails along the voltage.	U _e 50/60 Hz AC ded case circuit breaker in nonitored circuit drops be ltogether	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC		3VA9908-0BD12 3VA9908-0BD13	
	Combination Version Pereleases UVR Trips the mole voltage of a management of the limit or fails along the voltage.	U _e 50/60 Hz AC ded case circuit breaker in nonitored circuit drops be ltogether	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10	
	Combination Version Pereleases UVR Trips the mole voltage of a management of the limit or fails along the voltage.	U _e 50/60 Hz AC ded case circuit breaker in nonitored circuit drops be ltogether U _e 50/60 Hz AC -	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V 24 V —		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11	
	Combination Version Pereleases UVR Trips the mole voltage of a management of the limit or fails along the voltage.	U _e 50/60 Hz AC ded case circuit breaker in nonitored circuit drops be ltogether U _e 50/60 Hz AC 24 V	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12	
	Combination Version Pereleases UVR Trips the mole voltage of a management of the limit or fails along the voltage.	U _e 50/60 Hz AC ded case circuit breaker in nonitored circuit drops be ltogether U _e 50/60 Hz AC 24 V	U _e DC 12 V 24 V 48 V n the event that the rated elow a minimum permissible U _e DC 12 V 24 V - 48 V		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB22 3VA9908-0BB21	
	Combination Version Pereleases UVR Trips the mole voltage of a management of the limit or fails along the voltage.	U _e 50/60 Hz AC ded case circuit breaker in nonitored circuit drops be ltogether U _e 50/60 Hz AC 24 V - 48 V	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V 24 V - 48 V - 60 V		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB13	
	Combination Version Pereleases UVR Trips the mole voltage of a management of the limit or fails along the voltage.	U _e 50/60 Hz AC ded case circuit breaker in nonitored circuit drops be ltogether U _e 50/60 Hz AC 24 V - 48 V - 60 V	U _e DC 12 V 24 V 48 V n the event that the rated elow a minimum permissible U _e DC 12 V 24 V - 48 V - 60 V -		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB21 3VA9908-0BB23	
	Combination Version Pereleases UVR Trips the mole voltage of a management of the limit or fails along the voltage.	U _e 50/60 Hz AC ded case circuit breaker in nonitored circuit drops be ltogether U _e 50/60 Hz AC 24 V - 48 V - 60 V 110 V	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V 24 V - 48 V - 60 V		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB23 3VA9908-0BB22 3VA9908-0BB23	
	Combination Version Pereleases UVR Trips the mole voltage of a management of the limit or fails along the voltage.	U _e 50/60 Hz AC ded case circuit breaker in nonitored circuit drops be ltogether U _e 50/60 Hz AC 24 V - 48 V - 60 V	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V 24 V - 48 V - 60 V - - - - -		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB13 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB24	
	Combination Version Pereleases UVR Trips the mole voltage of a management of the limit or fails along the voltage.	U _e 50/60 Hz AC	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V 24 V - 48 V - 60 V - 125 127 V		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB23 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB24	
	Combination Version Pereleases UVR Trips the mole voltage of a management of the limit or fails along the voltage.	U _e 50/60 Hz AC ded case circuit breaker in nonitored circuit drops be ltogether U _e 50/60 Hz AC 24 V - 48 V - 60 V 110 V	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V 24 V - 48 V - 60 V - 125 127 V		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB24 3VA9908-0BB24	
	Combination Version Pereleases UVR Trips the mole voltage of a management of the limit or fails along the voltage.	U _e 50/60 Hz AC	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V 24 V - 48 V - 60 V - 125 127 V - 220 230 V		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB23 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB24 3VA9908-0BB14 3VA9908-0BB15	
	Combination Version Pereleases UVR Trips the mole voltage of a management of the limit or fails along the voltage.	U _e 50/60 Hz AC	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V 24 V - 48 V - 60 V - 125 127 V - 220 230 V 250 V		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB23 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB24 3VA9908-0BB14 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB16	
	Combination Version Pereleases UVR Trips the mole voltage of a management of the limit or fails along the voltage.	U _e 50/60 Hz AC	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V 24 V - 48 V - 60 V - 125 127 V - 220 230 V		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB24 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB26	
Undervoltage	Combination Version e releases UVR Trips the mole voltage of a m limit or fails al Version	U _e 50/60 Hz AC	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V 24 V - 48 V - 60 V - 125 127 V - 220 230 V 250 V		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB23 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB24 3VA9908-0BB14 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB16	
Undervoltage	Combination Version e releases UVR Trips the mole voltage of a main limit or fails all version evices for undervolta	U _e 50/60 Hz AC	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V 24 V - 48 V - 60 V - 125 127 V - 220 230 V 250 V - -		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB24 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB26	
Undervoltage	Combination Version e releases UVR Trips the mole voltage of a m limit or fails al Version	U _e 50/60 Hz AC	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V 24 V - 48 V - 60 V 125 127 V - 220 230 V 250 V U _e DC		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB25 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB26 3VA9908-0BB27	
Undervoltage	Combination Version e releases UVR Trips the mole voltage of a main limit or fails all version evices for undervolta	U _e 50/60 Hz AC	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V 24 V 48 V 60 V 125 127 V 220 230 V 250 V U _e DC 110 V		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB12 3VA9908-0BB13 3VA9908-0BB23 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB25 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB27	
	Combination Version e releases UVR Trips the mole voltage of a main limit or fails all version evices for undervolta	U _e 50/60 Hz AC	U _e DC 12 V 24 V 48 V In the event that the rated elow a minimum permissible U _e DC 12 V 24 V - 48 V - 60 V 125 127 V - 220 230 V 250 V U _e DC		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB25 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB26 3VA9908-0BB27	

Manual operators

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	iens.com/now	<i>g</i>		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25
Front mount	ed rotary operato	rs						
	HandleFor IECDegree of protectFor 3-pole and 4							
	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
9		With	Without	3VA9157-0EK13	3VA9257-0EK13	3VA9267-0EK13	3VA9467-0EK13	-
			With	3VA9157-0EK23	3VA9257-0EK23	3VA9267-0EK23	3VA9467-0EK23	-
	EMERGENCY-	Without	Without	3VA9157-0EK15	3VA9257-0EK15	3VA9267-0EK15	3VA9467-0EK15	3VA9687-0EK15
	STOP (red/yellow)		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 mounte	ed rotary operator	s with toleran	ce compensati	ion				
	 Shaft 300 mm (3) With mounting the shadle with man (100 × 100 mm) Degree of protections of the shadle of the shadle	tolerance compe sking plate 75 × for 3VA15/3VA ction IP65	ensation 75 mm					
	Version	Illumination kit	Door interlock					
7	Standard (gray)	Without	With	3VA9157-0FK21	3VA9257-0FK21	3VA9267-0FK21	3VA9467-0FK21	3VA9687-0FK21
		With	With	3VA9157-0FK23	3VA9257-0FK23	3VA9267-0FK23	3VA9467-0FK23	3VA9467-0FK23
//-	EMERGENCY-	Without	With	3VA9157-0FK25	3VA9257-0FK25	3VA9267-0FK25	3VA9467-0FK25	3VA9687-0FK25
	STOP (red/yellow)	With	With	3VA9157-0FK27	3VA9257-0FK27	3VA9267-0FK27	3VA9467-0FK27	3VA9467-0FK27
Door mounte	ed rotary operator	s without tole	rance compen	sation new				
	 Shaft 300 mm (: Handle with mar (100 × 100 mm) Degree of protection For 3-pole and 4 	sking plate 75 × for 3VA15/3VA ction IP65	75 mm					
	Version	Illumination kit	Door interlock					
	Standard (gray)	Without	With	3VA9157-0FK61	3VA9257-0FK61	3VA9267-0FK61	3VA9467-0FK61	3VA9687-0FK61
Door mounte	ed rotary operator	s without han	dle					
	For IECDegree of protectFor 3-pole and 4	-pole breakers						
	Version	Illumination kit	Door interlock					
	With shaft stub (gray)	-	Without	3VA9157-0GK00	3VA9257-0GK00	3VA9267-0GK00	3VA9467-0GK00	3VA9687-0GK00

							21/412	
						2)/420	3VA13	
				21/440		3VA20	3VA14	2)/445
				3VA10 3VA11	3VA12	3VA21 3VA22	3VA23 3VA24	3VA15 3VA25
Side wall mo	unted rotary oper	ators		SVATT	SVATZ	SVAZZ	3VA24	SVAZS
4)	 Rotary operator Handle with ma Degree of prote For 3-pole and 4 	with shaft 300 sking plate 75 > ction IP65						
	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-	Without	Without	3VA9157-0PK15	3VA9257-0PK15	3VA9267-0PK15	3VA9467-0PK15	-
	STOP (red/yellow)		With	3VA9157-0PK17	3VA9257-0PK17	3VA9267-0PK17	3VA9467-0PK17	-
Side wall mo	unted rotary oper	ators with mo	ounting plates					
46	 Rotary operator plate for mount Handle with ma Degree of prote For 3-pole and 4 	ing directly on t sking plate 75 > ction IP65	he side wall					
	Version	Mounting bracket	Illumination kit					
	Standard (gray)	With	Without	3VA9157-0PK51	3VA9257-0PK51	3VA9267-0PK51	-	-
			With	3VA9157-0PK53	3VA9257-0PK53	3VA9267-0PK53	-	-
	EMERGENCY-	With	Without	3VA9157-0PK55	3VA9257-0PK55	3VA9267-0PK55	-	-
	STOP (red/yellow)		With	3VA9157-0PK57	3VA9257-0PK57	3VA9267-0PK57	-	-
Extended DIN	l rails for N/PE ter	minals new						
•	Version	Rated currer	it					
7	For mounting plate	Up to 250 A		3VA9987-0GL30	3VA9987-0GL30	3VA9987-0GL30	-	-
Auxiliary swi	tch modules for re	otary operatir	ng mechanisms	new				
	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 ad	apters for side wa	all mounted ro	tary operators	new				
	Version							
	Necessary accessor rotary operators, if modules are used			3VA9257-0GX01	3VA9257-0GX01	3VA9467-0GX01	-	-
Masking plat	es, standard new							
	Version							
	Necessary accessor operators and 3VA operators, if 3VA9. modules are used	side wall mour	ited rotary	8UD1900-0BB01	8UD1900-0BB01	8UD1900-0BB01	8UD1900-0BB01	-
Masking plat	es, EMERGENCY S	TOP new						
	Version							
	Necessary accessor operators and 3VA operators, if 3VA9. modules are used	side wall mour	ited rotary	8UD1900-0BB05	8UD1900-0BB05	8UD1900-0BB05	8UD1900-0BB05	-

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Manual operators

Configure your molded case circuit breaker easily online at www.siemens.com/lowvoltage/configurator-3VA

			3VA10		3VA20 3VA21	3VA13 3VA14 3VA23	3VA15
6 1 .			3VA11	3VA12	3VA22	3VA24	3VA25
Supplementa		or mounted rotary operators					
	• For operation w Version	hen cabinet door is open					
	Standard (gray)		2\/\0297.06C01	2\/\0297.06C01	2\/\0.497.06.001	3VA9487-0GC11	3VA9687-0GC01
	EMERGENCY-			3VA9287-0GC01			3VA9687-0GC01
	STOP (red/yellow)		3VA9287-0GC03	3VA9287-0GC03	3VA9487-0GC03	3VA9487-0GC13	3VA9087-0GC03
Handles							
	With masking pl	ate					
	Version	Tolerance compensation					
	Standard (gray)	With		8UD1721-0AB21		8UD1731-0AB21	8UD1741-0AB21
		Without		8UD1721-0AB11		8UD1731-0AB11	8UD1741-0AB11
	EMERGENCY-	With		8UD1721-0AB25		8UD1731-0AB25	8UD1741-0AB25
	STOP (red/yellow)	Without		8UD1721-0AB15		8UD1731-0AB15	8UD1741-0AB15
Handle exter							
		e lever extension is already scope of supply of the					
						21/40/497 05/510	21/40007 05610
Shafts			-	-	-	3VA9487-03C10	3VA9987-0SC10
Sildits	Versions	Length					
	8 × 8 mm	300 mm		8UD1900	D-2WA00		_
		600 mm			D-2WB00		_
	12 × 12 mm	300 mm	_	-	_	_	8UD1900-4WA00
		600 mm	_	-	_	-	8UD1900-4WB00
Adapters for	shafts						
	Versions	Purpose					
	8 × 8 mm	With door mounted rotary operator and side wall mounted rotary operator		8UD190	0-2DA00		-
	12 × 12 mm	For door mounted rotary operator	-	-	-	-	8UD1900-4DA00
Door couplin	gs						
	Versions						
	8 × 8 mm			8UD190	0-2HA00		-
	12 × 12 mm		-	-	-	-	8UD1900-4HA00

			3VA20	3VA13 3VA14	
	3VA10		3VA21	3VA23	3VA15
	3VA11	3VA12	3VA22	3VA24	3VA25
Mounting tolerance compensations					
Versions					
8 × 8 mm		8UD190	0-2GA00		-
12 × 12 mm	-	-	-	-	8UD1900-4GA00
Fixing brackets for shafts					
14 A					
	3VA928	7-0GA80	3VA948	7-0GA80	3VA9687-0GA80
Variable depth adapters					
Size					
8 × 8 mm		3VA948	7-0GB10		-

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Manual operators

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www.siem	nens.com/lowvoltage/d	configurator-	·3VA				ı
						3VA20	
						3VA21	
			3VA10			3VA22	
			3VA11	3VA13		3VA23	
			3VA12	3VA14	3VA15	3VA24	3VA25
Labeling plate	es for manual operators						
1					3VA9087-0SX10		
Illumination k	its for manual operators						
	24 V DC voltage						
	Version	Rated current					
	Front rotary operating	100 250 A	8UD1900-0KA10	_	_	_	_
\prec	mechanism	100 630 A	-	8UD1900-0KA20	_	8UD1900-0KA20	_
		630 1000 A	_	-	8UD1900-0KA30	-	8UD1900-0KA30
	Door mounted rotary operator	100 630 A	8UD1900-0KA20	8UD1900-0KA20	8UD1900-0KA20	8UD1900-0KA20	-
	and side wall mounted rotary	630 1000 A	-	-	-	-	8UD1900-0KA30
	operator	030 1000 A					00D1900-0KA30
Cylinder locks	(type Kaba), standard masking	plates					
	Purpose	Key					
	For door mounted rotary	1	8UD1900-0MB01	8UD1900-0MB01	-	8UD1900-0MB01	-
	operator and side wall	2	8UD1900-0NB01	8UD1900-0NB01	-	8UD1900-0NB01	-
	mounted rotary operator	3	8UD1900-0PB01	8UD1900-0PB01	-	8UD1900-0PB01	-
	(in the masking plate)	4	8UD1900-0QB01	8UD1900-0QB01	-	8UD1900-0QB01	_
Cylinder locks	(type Kaba), EMERGENCY OFF	masking plates					
	Purpose	Key					
	For door mounted rotary	1	8UD1900-0MB05	8UD1900-0MB05	-	8UD1900-0MB05	-
	operator and side wall	2	8UD1900-0NB05	8UD1900-0NB05	_	8UD1900-0NB05	_
	mounted rotary operator	3	8UD1900-0PB05	8UD1900-0PB05	_	8UD1900-0PB05	_
	(in the masking plate)	4	8UD1900-0QB05	8UD1900-0QB05	_	8UD1900-0QB05	_
Cylinder locks	(type Ronis)		·				
	 Includes a lock with 2 keys For locking or interlocking For installation in all rotary of For mounting in the adapter 						
0	accessories compartment Note: The cylinder lock adapt						
	operators is also needed for le interlocking circuit breakers v operators						
	Key						
	1				3VA9980-0VL10		
	3				3VA9980-0VL30		
	4				3VA9980-0VL40		
Cylinder lock	adapters for rotary operators						
II II * 000	To mount the cylinder lock in operator (also possible with c rotary operator and side wall operator)	loor mounted					
	Rated current						
	100 630 A		3VA9980-0LF20	3VA9980-0LF20	-	3VA9980-0LF20	_
	1000 A		-	-	3VA9680-0LF20	-	3VA9680-0LF20

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Motor operators

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www.siemens.com/lowvoltage/configurator-3VA

Side mounted motor operators (MO310)



 Cover size 45 mi 	m					
Addressable via control signals	Isolating features in accordance with IEC/EN 60947-1	Make time, t for 3VA1	typically for 3VA2	Break time, for 3VA1	typically for 3VA2	Rated operational power
•	•	<300 ms	-	<300 ms	-	250 W, max. 500 W

Motor operators without stored energy operators (MO320)



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

Motor operators with stored energy operators (SEO520)

- Synchronizable remote operating mechanism with optional communication link
- Has two spring assemblies that are used to switch the 3VA2 molded case circuit breaker on and off quickly. This new principle in the MCCB
 area ensures fast, reliable and easily controllable switching sequences, especially in load transfer switching applications.
- The connection with the COM060 communication module, via a plug-in connection, integrates the SEO520 into the communication
 environment of the 3VA molded case circuit breakers and ensures that the molded case circuit breaker can also be switched via the
 supported communication networks and the powerconfig and 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, ty for 3VA1	ypically for 3VA2	Break time, ty for 3VA1	pically for 3VA2	Rated operational power
•	•	-	<80 ms	-	<80 ms	300 W, max. 500 W (60 ms)

Mechanical c	pperating cy	cles counters (for installatio	n in the SEO520)
Wiccinattical	peracing cy	cics counters ((101 III3tallatio	II III tile SEOSZO)



MountingArticle No.For installation in the SEO5203VA9987-0HX10

Cylinder lock adapters for SEO520



 Mounting
 Article No.

 For installation of cylinder locks in the SEO520
 3VA9980-0LF30

Cylinder locks (type Ronis)



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

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

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

Rated c supply		With communication				
42 60 24 60		-	3VA9117-0HB10	-	-	-
	230 V AC, 250 V DC	-	3VA9117-0HB20	-	-	-
Rated c supply		With communication				
24 60) V DC	-	3VA9157-0HA10	3VA9257-0HA10	3VA9267-0HA10	3VA9467-0HA10
	230 V AC, 250 V DC	-	3VA9157-0HA20	3VA9257-0HA20	3VA9267-0HA20	3VA9467-0HA20
Rated c supply		With communication				
24 V DC		-	-	-	3VA9267-0HC10	-
42 60	V AC/DC	-	-	-	3VA9267-0HC20	-
	230 V AC, 250 V DC	-	-	-	3VA9267-0HC30	-
24 V DC		Yes	-	-	3VA9267-0HC15	-
	230 V AC, 250 V DC	Yes	-	-	3VA9267-0HC35	-



Reset mode

All motor operators have the following reset modes:

Reset mode 1: Automatic reset

Reset mode 2: Reset via OFF-signal

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

Connection technology



• For mounting onto the circuit breaker

For mounting onto withdrawable and plug-in units

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						3VA10
						3VA11
Box terminals						
	Conn	ection options	Scope of supply	Copper stranded		
湖海南	0	2	3 single terminals	1.5 70 mm²		3VA9153-0JA11
(A) (B) (B)				6 120 mm²		-
				25 185 mm²		-
				50 185 mm²		-
				35 300 mm²		-
	0	2	4 single terminals	1.5 70 mm²		3VA9154-0JA11
20 20 20 20				6 120 mm²		-
e e				25 185 mm²		-
				50 185 mm²		_
				35 300 mm²		_
Nut keeper units						
	Conn	ection options	Scope of supply	Max. tap width	Max. tap thickness	
	0	2	3 single terminals	17 mm	6.5 mm	3VA9113-0QA00
0.0.0				25 mm	8 mm	-
				35 mm	10 mm	-
			Nut keeper kit for 3-pole	50 mm	25 mm	-
			breakers, 1 terminal cover			
7000	0	2	4 single terminals	17 mm	6.5 mm	3VA9114-0QA00
or on the				25 mm	8 mm	-
				35 mm	10 mm	-
			Nut keeper kit for 4-pole	50 mm	28 mm	-
			breakers, 1 terminal cover			
Circular conducto	_					
	Conn	ection options	Scope of supply	Copper/aluminum stranded		
4	0	2	3 single terminals	1.5 10 mm ² new		3VA9113-0JB10
0 0 0				1.5 50 mm²		-
				10 95 mm²		3VA9113-0JB11
				16 185 mm²		-
				35 185 mm²		-
				50 300 mm²		-
-	0	2	4 single terminals	1.5 10 mm² new		3VA9114-0JB10
0 0 0 0				1.5 50 mm²		-
				10 95 mm²		3VA9114-0JB11
				16 185 mm²		-
				35 185 mm²		-
				50 300 mm²		-

Only permitted up to 400 A
 Maximum current-carrying capacity of copper cables 380 A Maximum current-carrying capacity of aluminum cables 310 A

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

Connection technology



• For mounting onto the circuit breaker

For mounting onto withdrawable and plug-in units

Configure your molded case circuit breaker easily online at www.siemens.com/lowvoltage/configurator-3VA

						3VA10 3VA11
ular conducto	r termina	als with auxiliary	conductor terminals, 1 ca	ble ²⁾		
	Conn	ection options	Scope of supply	Copper/aluminum stranded		
	0	2	3 single terminals	1.5 10 mm² new		3VA9113-0JG10
a a				1.5 50 mm²		-
				10 95 mm²		3VA9113-0JG11
				16 185 mm²		-
				35 185 mm²		-
				50 300 mm ²		-
	0	2	4 single terminals	1.5 10 mm² new		3VA9114-0JG10
ଗ ଗ ଗ				1.5 50 mm²		_
				10 95 mm²		3VA9114-0JG11
				16 185 mm²		_
				35 185 mm²		_
				50 300 mm²		-
ular conducto	r termina	als, 2 cables				
	Conn	ection options	Scope of supply	Copper/aluminum stranded	Aux. conductor terminal	
	0	2	3 single terminals,	120 300 mm²	No	-
			1 short terminal cover		Yes ²⁾	-
1-1-1	0	0	4 single terminals,	120 300 mm²	No	-
			1 short terminal cover		Yes ²⁾	-
ina						
2 2						
ular conducto	r termina	als, 3 cables				
	Conn	ection options	Scope of supply	Copper/aluminum stranded	Aux. conductor terminal	
	0	2	3 single terminals,	120 185 mm²	No	-
27			1 short terminal cover		Yes ²⁾	-
前衛						
-1-1-1	0	2	4 single terminals,	120 185 mm²	No	-
តាតា _{តា}			1 short terminal cover		Yes ²⁾	-
iliary conduct		nals for box term	inals ²⁾			
	Versi					
		-mounted				3VA9110-0WB00
	Plug-i	in and draw-out tec	hnology			3VA9150-0WB00
W						
iliary conduct	or termi	nals for busbars 2)				
	Versi					
	Fixed	-mounted				3VA9110-0WC00
2	Plug-i	in and draw-out tec	hnology			3VA9150-0WC00
	,					

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

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

		3VA13	
	3VA20	3VA14	
	3VA21	3VA23	3VA15
3VA12	3VA22	3VA24	3VA25
-	-	-	-
-	3VA9103-0JG11	-	-
-	-	-	-
	3VA9263-0JG12	-	-
3VA9253-0JG12	-	-	-
-	-	3VA9383-0JG13 ¹⁾	
	20/40104 01611		
	3VA9104-0JG11 _	-	-
	3VA9264-0JG12	_	_
3VA9254-0JG12	-	_	_
-	_	3VA9384-0JG13 ¹⁾	_
-	-	-	3VA9503-0JB23
-	-	-	3VA9503-0JG23
-	-	-	3VA9504-0JB23
-	_	-	3VA9504-0JG23
-	-	-	3VA9503-0JB32
-	-	-	3VA9503-0JG32
-	-	-	3VA9504-0JB32
-	-	-	3VA9504-0JG32
2000	21/10/20 20/2	21/40/402 200722	
3VA9200-0WB00	3VA9200-0WB00	3VA9480-0WB00	-
3VA9280-0WB00	3VA9280-0WB00	3VA9480-0WB00	-
3VA9200-0WC00	3VA9200-0WC00	3VA9480-0WC00	-
3VA9280-0WC00	3VA9280-0WC00	3VA9480-0WC00	-

Connection technology



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

Configure your molded case circuit breaker easily online at www.siemens.com/lowvoltage/configurator-3VA

	nectors extended Number of poles	Conn	ection options	Scope of supply	Max. tap width	Max. tap thickness
	1P	0	-	1 busbar connection piece	22 mm	8 mm
44	3P	0	2	3 single terminals,	22 mm	8 mm
				2 phase barriers	32 mm	10 mm
					40 mm	12.5 mm
0					50 mm	28 mm
444	4P	0	2	4 single terminals,	22 mm	8 mm
				3 phase barriers	32 mm	10 mm
					40 mm	12.5 mm
					50 mm	28 mm
ront bus conr	nectors offset					
	 Distance between 100/160 A = 250 A = 45 r 	35 mm	enters:			
	 400/630 A = Number of poles 		ection options	Scope of supply	Max. tap width	Max. tap thickness
4.4	3P	0	2	3 single terminals,	30 mm	8 mm
	J.		· ·	2 phase barriers	35 mm	10 mm
				·	60 mm	12.5 mm
444	4P	0	2	4 single terminals,	30 mm	8 mm
				3 phase barriers	35 mm	10 mm
					60 mm	12.5 mm
us connector	s edgewise					
	Number of poles	Conn	ection options	Scope of supply	Max. tap width	Max. tap thickness
44	3P	0	2	3 single terminals,	20 mm	6 mm
4				2 phase barriers	25 mm	7 mm
					40 mm	8 mm
4.4	4P	•	0	4 single terminals,	20 mm	6 mm
	41	0	2	3 phase barriers	20 mm	6 mm 7 mm
				5 phase samers	40 mm	8 mm
					40 111111	O Hilli
lut kee <u>per un</u>	its, right-angled ¹⁾					
	Number of poles	Conn	ection options		Max. tap width	Max. tap thickness
44	3P	0	2	3 single terminals,	22 mm	8 mm
1				2 phase barriers	32 mm	10 mm
777					40 mm	12.5 mm
	4P	0	2	4 single terminals,	22 mm	8 mm
444	71	•				
444	41			3 phase barriers	32 mm	10 mm

		2)/4.20	3VA13	
		3VA20	3VA14	21/4/5
3VA10	21//42	3VA21	3VA23	3VA15
3VA11	3VA12	3VA22	3VA24	3VA25
3VA9151-0QB00		_	_	_
3VA3131-0000				
3VA9153-0QB00	-	-	-	-
	3VA9253-0QB00 -	3VA9263-0QB00 -	- 3VA9483-0QB00	
_	_	_	-	3VA9603-0QB00
3VA9154-0QB00	-	-	-	-
-	3VA9254-0QB00	3VA9264-0QB00	-	-
-	-	-	3VA9484-0QB00	-
-	-	-	-	3VA9604-0QB00
3VA9153-0QC00	-	-	-	-
-	3VA9253-0QC00	3VA9263-0QC00	-	-
-	-	-	3VA9483-0QC00	-
3VA9154-0QC00	-	-	-	-
-	3VA9254-0QC00	3VA9264-0QC00	-	-
_	-	-	3VA9484-0QC00	-
3VA9153-0QD00	-	-	-	-
-	3VA9253-0QD00	3VA9263-0QD00	-	-
-	-	-	3VA9483-0QD00	-
3VA9154-0QD00	-	-	-	-
-	3VA9254-0QD00	3VA9264-0QD00	-	-
-	-	-	3VA9484-0QD00	-
3VA9113-0QG00	-	-	-	-
-	3VA9213-0QG00	3VA9223-0QG00	-	-
-	-	-	3VA9403-0QG00	-
3VA9114-0QG00	-	-	-	-
-	3VA9214-0QG00	3VA9224-0QG00	-	-
-	-	-	3VA9404-0QG00	-

Connection technology



For mounting onto the circuit breakerFor mounting onto withdrawable and plug-in units

Configure your molded case circuit breaker easily online at

www.siemens.com/lowvoltage/configurator-3VA

Rear connection s	studs flat			
	Number of poles	Conne	ction options	Scope of supply
	1P	0	2	1 short connection stud flat
				1 long connection stud flat
- N	3P	0	2	2 short connection studs flat,
333				1 long connection stud flat
N 50	4P	0	0	2 short connection studs flat,
3333				2 long connection studs flat
Rear connection s	studs round			
	Number of poles	Conne	ction options	Scope of supply
a	1P	0	2	1 short connection stud round
				1 long connection stud round
~ 🔊	3P	0	2	1 long connection stud round,
4				2 short connection studs round
A 0	4P	0	2	2 long connection studs round,
1				2 short connection studs round

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			3VA13	
		3VA20	3VA14	
3VA10		3VA21	3VA23	3VA15
3VA11	3VA12	3VA22	3VA24	3VA25
3VA9111-0QE10	3VA9211-0QE10	3VA9201-0QE10	3VA9401-0QE10	-
3VA9111-0QE20	3VA9211-0QE20	3VA9201-0QE20	3VA9401-0QE20	-
3VA9113-0QE00	3VA9213-0QE00	3VA9203-0QE00	3VA9403-0QE00	-
3VA9114-0QE00	3VA9214-0QE00	3VA9204-0QE00	3VA9404-0QE00	-
3VA9111-0QF10	3VA9211-0QF10	3VA9201-0QF10	3VA9401-0QF10	-
3VA9111-0QF20	3VA9211-0QF20	3VA9201-0QF20	3VA9401-0QF20	-
3VA9113-0QF00	3VA9213-0QF00	3VA9203-0QF00	3VA9403-0QF00	-
3VA9114-0QF00	3VA9214-0QF00	3VA9204-0QF00	3VA9404-0QF00	-

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Connection technology



• For mounting onto the circuit breaker

For mounting onto withdrawable and plug-in units

Configure your molded case circuit breaker easily online at www.siemens.com/lowvoltage/configurator-3VA

	Connection options	Scope of supply	Number of cables	Copper/aluminum	Aux. conductor terminal
l		2 single terminals,	1	stranded 25 150 mm²	Yes 1)
	0 -	1 extended terminal cover,	1	23 130 111111	
		1 insulation plate	6	1.5 35 mm²	No No
1			0	1.5 35 mm²	No
lar condu	uctor terminals, 3P				
	Connection options	Scope of supply	Number of cables	Copper/aluminum stranded	Aux. conductor terminal
·	0 –	3 single terminals,	1	25 150 mm²	Yes 1)
		1 extended terminal cover,			No
1		1 insulation plate		50 240 mm²	Yes 1)
					No
			2	25 150 mm²	Yes 1)
					No
		2 25 150 mm ² Yes ¹⁾			
					No
			4 120 240 mm ² Yes ¹⁾		
					No
			6	1.5 35 mm²	No
	- 2	3 single terminals,	1	25 150 mm²	Yes 1)
		1 extended terminal cover,		50 240 mm²	Yes 1)
		1 insulation plate	2	25 150 mm²	Yes 1)
				70 300 mm²	Yes 1)
			6	1.5 35 mm²	No
ar condu	uctor terminals, 4P				
	Connection options	Scope of supply	Number of cables	Copper/aluminum stranded	Aux. conductor terminal
	0 –	4 single terminals,	1	25 150 mm²	Yes 1)
<u> </u>		1 extended terminal cover, 1 insulation plate			No
ig Iga		i ilisulation plate		50 240 mm²	Yes 1)
liga I		i ilisulation plate			No
		i insulation plate	2	50 240 mm² 25 150 mm²	
ig		i ilisulation plate	2	25 150 mm²	No Yes ¹⁾ No
199		i ilisulation plate	2		No Yes 1)
		i ilisulation plate	2	25 150 mm²	No Yes ¹⁾ No
		i ilisulation plate	2	25 150 mm²	No Yes ¹⁾ No Yes ¹⁾
1		i ilisulation plate		25 150 mm ²	No Yes 1) No Yes 1) No
		i ilisulation plate		25 150 mm ² 70 300 mm ² 120 240 mm ²	No Yes 1) No Yes 1) No Yes 1)
	- 2	4 single terminals,	4	25 150 mm ² 70 300 mm ² 120 240 mm ² 1.5 35 mm ² 25 150 mm ²	No Yes 1) No Yes 1) No Yes 1) No Yes 1) No No No Yes 1)
	- 0	4 single terminals, 1 extended terminal cover,	6	25 150 mm ² 70 300 mm ² 120 240 mm ² 1.5 35 mm ² 25 150 mm ² 50 240 mm ²	No Yes 1) No Yes 1) No Yes 1) No No No
	- 2	4 single terminals,	4	25 150 mm ² 70 300 mm ² 120 240 mm ² 1.5 35 mm ² 25 150 mm ²	No Yes 1) No Yes 1) No Yes 1) No Yes 1) No No No Yes 1)

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

		3VA20	3VA13 3VA14	
3VA10		3VA21	3VA23	3VA15
3VA11	3VA12	3VA22	3VA24	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
3VA9113-0JF60	3VA9213-0JF60	3VA9223-0JF60	3VA9303-0JF60	_
3VA9153-0JC12	-	_	-	_
_	3VA9253-0JC13	3VA9263-0JC13	_	_
_	3VA9253-0JC22	3VA9263-0JC22	_	_
_	_	_	3VA9483-0JC23	_
3VA9153-0JF60	3VA9253-0JF60	3VA9263-0JF60	3VA9383-0JF60	_
3VA9114-0JC12	-	-	-	_
3VA9114-0JJ12	_	_	_	_
-	3VA9214-0JC13	3VA9224-0JC13	_	_
_	3VA9214-0JJ13	3VA9224-0JJ13	_	_
	3VA9214-0JJT3	3VA9224-0JJT3	_	
	3VA9214-0JJ22	3VA9224-0JU22	_	
			3VA9404-0JC23	
	-	-	3VA9404-0JC23 3VA9404-0JJ23	-
_	-	-		-
-	_	-	-	3VA9604-0JC43
- 2\/\0.0114.0\[60	21/40214 01560	- 21/40224 0 IE60	-	3VA9604-0JJ43
3VA9114-0JF60	3VA9214-0JF60	3VA9224-0JF60	3VA9304-0JF60	
3VA9154-0JC12	- 2VA02E4 0IC12	21/40264 01612	_	-
-	3VA9254-0JC13	3VA9264-0JC13	-	-
-	3VA9254-0JC22	3VA9264-0JC22	-	-
-	-	-	3VA9484-0JC23	-
3VA9154-0JF60	3VA9254-0JF60	3VA9264-0JF60	3VA9384-0JF60	-

Connection technology



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

Configure your molded case circuit breaker easily online at www.siemens.com/lowvoltage/configurator-3VA

					3VA10	3VA11
	for fixed mou					
Versio		Number of poles		ing location	21/40444 21/1242	20112444
Short		1P	0	-	3VA9111-0WD10	3VA9111-0WD1
		2P	0		3VA9111-0WD20	3VA9111-0WD2
		3P	0	-	3VA9111-0WD30	3VA9111-0WD3
		4P	0	_	3VA9111-0WD40	3VA9111-0WD4
Extend	ded 1)	2P	0	-	3VA9111-0WF20	3VA9111-0WF2
		3P	0	-	3VA9111-0WF30	3VA9111-0WF3
		4P	0	-	3VA9111-0WF40	3VA9111-0WF4
Broade	ened 1)	3P	0	-	3VA9111-0WG30	3VA9111-0WG
		4P	0	-	3VA9111-0WG40	3VA9111-0WG
• To p	provide circuit br mounting to the	d draw-out units (s eaker touch protection molded case circuit l supply: Cover for the	on breaker		_	
Versio		Number of poles		ing location		
Short		3P	0	-	3VA9113-0KB01	3VA9113-0KB
	-	4P	0		3VA9114-0KB01	3VA9114-0KB0
ore for plug	in or draw-out				STASTAT GREET	3773777 0135
• For	touch protection	i in the termination a	rea			
of t • For		w-out socket the plug-in or draw-or	ut socket	ing location		
of t	the plug-in or dra mounting onto t	w-out socket	ut socket	ing location	-	3VA9153-0KB(
of t • For Version	the plug-in or dra mounting onto t	w-out socket the plug-in or draw-or Number of poles	ut socket	0	:	
of t • For Version	the plug-in or dra mounting onto t	w-out socket the plug-in or draw-or Number of poles 3P	ut socket		-	
of t • For Version	the plug-in or dra mounting onto t on	w-out socket the plug-in or draw-or Number of poles 3P	ut socket	0	-	3VA9154-0KB
of t • For Versic Short	the plug-in or dra mounting onto t on	w-out socket the plug-in or draw-or Number of poles 3P 4P	ut socket Mount - -	0	- - -	3VA9154-0KB0 3VA9153-0KB0
of t • For Versic Short	the plug-in or dra mounting onto to on	w-out socket the plug-in or draw-or Number of poles 3P 4P	ut socket Mount - -	9 9	- - -	3VA9154-0KB 3VA9153-0KB 3VA9154-0KB
of t • For Versic Short	the plug-in or dra mounting onto to on ded 1)	w-out socket the plug-in or draw-ou Number of poles 3P 4P	ut socket Mount - -	2222	- - - -	3VA9153-0KB0 3VA9154-0KB0 3VA9154-0KB0 3VA9153-0KB0 3VA9154-0KB0
of t • For Versic Short Extend	the plug-in or dra mounting onto to on ded 1)	w-out socket the plug-in or draw-ou Number of poles 3P 4P 3P 4P	ut socket Mount - - - -	22222	-	3VA9154-0KB0 3VA9153-0KB0 3VA9154-0KB0 3VA9153-0KB0
of t • For Versic Short Extend	the plug-in or dra mounting onto to on ded 1)	w-out socket the plug-in or draw-ou Number of poles 3P 4P 3P 4P Number of poles	wit socket Mount - - - - Mount	222	- - - - -	3VA9154-0KB0 3VA9153-0KB0 3VA9154-0KB0 3VA9153-0KB0 3VA9154-0KB0
of t • For Versic Short Extend	che plug-in or dra mounting onto to on ded 1)	w-out socket the plug-in or draw-ou Number of poles 3P 4P 3P 4P Number of poles 2P	Mount Mount	22222	- - - - - - 3VA9111-0WJ20	3VA9154-0KB0 3VA9153-0KB0 3VA9154-0KB0 3VA9154-0KB0 3VA9111-0WJ
of t • For Versic Short Extend	che plug-in or dra mounting onto to on ded 1)	w-out socket the plug-in or draw-or Number of poles 3P 4P 3P 4P Number of poles 2P 3P	Mount Mount 0	22222	3VA9111-0WJ30	3VA9153-0KB0 3VA9153-0KB0 3VA9153-0KB0 3VA9154-0KB0 3VA9111-0WJ3
extended ates Versice Standa	che plug-in or dra mounting onto to on ded 1)	w-out socket the plug-in or draw-or Number of poles 3P 4P 3P 4P Number of poles 2P 3P 4P	Mount Mount	22222	3VA9111-0WJ30 3VA9111-0WJ40	3VA9154-0KB0 3VA9153-0KB0 3VA9154-0KB0 3VA9154-0KB0 3VA9111-0WJ
of t • For Versic Short Extend	che plug-in or dra mounting onto to on ded 1)	w-out socket the plug-in or draw-or Number of poles 3P 4P 3P 4P Number of poles 2P 3P	Mount Mount 0	e e e ing location - -	3VA9111-0WJ30	3VA9153-0KB0 3VA9153-0KB0 3VA9153-0KB0 3VA9154-0KB0 3VA9111-0WJ

		3VA13	
	3VA20	3VA14	
	3VA21	3VA23	3VA15
3VA12	3VA22	3VA24	3VA25
-	-	-	-
-	-	-	-
3VA9211-0WD30	3VA9221-0WD30	3VA9481-0WD30	3VA9601-0WD30
3VA9211-0WD40	3VA9221-0WD40	3VA9481-0WD40	3VA9601-0WD40
_	-	-	-
3VA9211-0WF30	3VA9221-0WF30	3VA9481-0WF30	-
3VA9211-0WF40	3VA9221-0WF40	3VA9481-0WF40	-
3VA9211-0WG30	3VA9221-0WG30	3VA9401-0WG30	-
3VA9211-0WG40	3VA9221-0WG40	3VA9401-0WG40	-
21/40212 0//001	21/40122 0/001	21/40252 01/001	
3VA9213-0KB01	3VA9123-0KB01	3VA9353-0KB01	_
3VA9214-0KB01	3VA9124-0KB01	3VA9354-0KB01	-
3VA9253-0KB03	3VA9163-0KB03	3VA9353-0KB03	-
3VA9254-0KB03	3VA9164-0KB03	3VA9354-0KB03	-
21/40252 0/504	21/40452 01/204	2014 22 22 21 22 4	
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	_

Connection technology

Configure your molded case circuit breaker easily online at www.siemens.com/lowvoltage/configurator-3VA

			3VA10	3VA11	
Phase barrier	s (fixed mounting, plug-	in and draw-out units)			
44	Scope of supply				
	2 phase barriers		3VA915.	2-0WA00	
DC insulation	plates for 3VA1 for fixe	d-mounted molded case circuit breakers			
100	Number of poles				
	3P		3VA911	3-0SG10	
	4P		3VA911	4-0SG10	
Side plates for	or 3VA1 for fixed-mount	ed molded case circuit breakers			
1	Number of poles	Mounting			
n n	2P	On 2-pole molded case circuit breakers	3VA911	2-0SG20	

	3VA20	3VA13 3VA14	
	3VA21	3VA23	3VA15
3VA12	3VA22	3VA24	3VA25
3VA9252-0WA00	3VA9262-0WA00	3VA9482-0WA00	3VA9602-0WA00
-	-	-	-
-	-	-	-
-	-	_	-

Plug-in and draw-out technology

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

Thanks to plug-in and draw-out technology:

- Molded case circuit breakers can be replaced quickly and easily for overhauls or servicing
- Electrical isolation and clearly visible isolating distance
- The socket can be interlocked to prevent the 3VA molded case circuit breaker from being plugged in or moved in
- Identical connection technology for all molded case circuit breakers, whether they are plug-in, draw-out or fixed-mounted units

In addition, draw-out technology offers:

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

Configure your molded case circuit breaker easily online at

www.sieme	ns.com/lowvoltage/configu	rator-3VA			
					3VA13
				3VA20	3VA14
				3VA21	3VA23
		3VA11	3VA12	3VA22	3VA24
Draw-out units,	complete kits				
dda	Scope of supply: Draw-out socket Conversion kit Mounting screw kit Note: The crank handle for the draw-out unit must be ordered separately.				
	Number of poles				
	3P	-	3VA9213-0KD00	3VA9123-0KD00	3VA9323-0KD00
	4P	-	3VA9214-0KD00	3VA9124-0KD00	3VA9324-0KD00
	conversion kits				
dda	Scope of supply: Screw-fastened terminal covers for molded case circuit breakers Side panels Plug-in contacts Cable cages Autotrip plunger Note: The crank handle for the draw-out unit must be ordered separately.				
	Number of poles				
	3P	-	3VA9213-0KD10	3VA9123-0KD10	3VA9323-0KD10
	4P	-	3VA9214-0KD10	3VA9124-0KD10	3VA9324-0KD10
Plug-in units, co	omplete kits				
Track	 Scope of supply: Plug-in base Conversion kit Mounting screw kit 				
ೆ ರಡ	Number of poles	27/40442 01/000	2)// 02/12 0// 000	21/40422 01/000	2) (4.0.2.2.2. 0) (10.0.0
	3P 4P	3VA9113-0KP00	3VA9213-0KP00	3VA9123-0KP00	3VA9323-0KP00
Diam're and the	**	3VA9114-0KP00	3VA9214-0KP00	3VA9124-0KP00	3VA9324-0KP00
Plug-in units, co					
daa	Scope of supply: Screw-fastened terminal covers for molded case circuit breakers Plug-in contacts Cable cages Autotrip plunger				
	Number of poles				
	3P	3VA9113-0KP10	3VA9213-0KP10	3VA9123-0KP10	3VA9323-0KP10
	4P	3VA9114-0KP10	3VA9214-0KP10	3VA9124-0KP10	3VA9324-0KP10

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

Accessories

Communication I	inks for draw-out i	unit	
	Scope of supply		Article No.
ttr		h three special position signaling switches, connecting cables	3VA9987-0KC00
Position signaling	g switches for drav	v-out unit and plug-in unit	
			Article No.
			3VA9987-0KB00
Connecting cable			
	Purpose		Article No.
	Connection of po	osition signaling switches for communication with COM060	3VA9987-0KC10
Crank handles for			
-	Version	Scope of supply	Article No.
)	Insulated	Including crank handle holder	3VA9987-0KD81
Auxiliary circuit c			
	 Each auxiliary 	circuit connector is designed for 4 cables.	
	Version		Article No.
14	For all draw-out i	units	3VA9987-0KD80
-	For all plug-in un	its	3VA9987-0KP80
Cylinder locks			
	 Scope of supp 1 lock with For locking or Note: Not for 	2 keys interlocking	
	Key	Lock number	Article No.
	1	1	3VA9980-0VL10
	3	3	3VA9980-0VL30
	4	4	3VA9980-0VL40
Cylinder lock ada	pters for draw-out	t units	
-40		authorized withdrawal or insertion of the circuit breaker into the draw-out unit r can be locked in the CONNECT, TEST and DISCONNECT positions	
	Purpose		Article No.
	For fitting a cylin side wall of the d	der lock in the right-hand Iraw-out unit	3VA9980-0LF40

Residual current devices RCD

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

Configure your molded case circuit breaker easily online at

www.siemens.com/lowvoltage/configurator-3VA

Mounted onto the side (left) • Can be mounted onto switch disconnectors and molded case circuit breakers Sensitivity³⁾ Rated Limit value of Rated voltage Pre-alarm Tripped signal Number of residual non-tripping U_e current frequency poles response current I_{∆n} RCD510 0.03 ... 5 A. 0 ... 3 s 127 ... 480 V AC 50/60 Hz 3-pole Type A instantaneous 127 ... 480 V AC 50/60 Hz 4-pole RCD310 0.03 ... 5 A. Type A RCD510 Type A 0.03 ... 5 A. 0 ... 3 s 127 ... 480 V AC 50/60 Hz

Mounted below (under trip unit)

· Can be mounted onto molded case circuit breakers

	Num-	Туре	Sensitivity 3)	Rated		Rated voltage	Fault	Pre-a	larm		Tripp	ed signal	
	ber of poles			residual response current I _{∆n}	non-tripping time Δt	U _e	frequency	<u>-</u> }	NC COM	СОМ	TRIP	NC COM	СОМ
	3-pole	RCD520	Type A	0.03 5 A.	0 3 s	127 480 V AC	50/60 Hz	1	-	-		•	-
		RCD520B 1)4)	Type B	0.03 5 A.	0 10 s	127 690 V AC	0 100 kHz	1	•	-			-
		new	Type B+	0.03 0.3 A.									
		RCD820 ²⁾	Type A	0.03 30 A ⁵⁾	0 10 s	127 690 V AC	50/60 Hz	2	•			•	•
	4-pole	RCD320	Type A	0.03 5 A.	instantaneous	127 480 V AC	50/60 Hz	1	-	-		•	-
1		RCD520	Type A	0.03 5 A.	0 3 s	127 480 V AC	50/60 Hz	1	-	-	•		-
ı		RCD520B ⁴⁾	Type B	0.03 5 A.	0 10 s	127 690 V AC	0 100 kHz	1	•	-		•	-
_		new	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) new



Version Scope of supply For RCD310 or RCD510

RCR, RCR-RCD cables

- 1) 3-pole version in 4-pole enclosure
- 2) With energy infeed from below, the required auxiliary switch (AUX) must be ordered separately
- Type A: pulse current sensitive, type B/B+: universal current sensitive
- Sensitivity selectable for type B/B+
- $I_{\Lambda n} = 30A$: type AC
- o) If the molded case circuit breaker has no box terminals as connections, a set of box terminals must be ordered additionally for the taps below the thermal-magnetic trip units.
- $^{7)}\,$ 1 set of box terminals is included in scope of supply of the RCD510 (3VA921.-0RS20).

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

					3VA20			
			3VA11	3VA12	3VA20 3VA21	3VA22	3VA23	3VA24
			SVATI	SVATZ	SVAZI	3VA22	3VA23	3VA24
Monitoring mode (tripping can be disabled as an option)	Remote test/ remote reset	Communica- tion-capable						
	_	_	3VA9113-0RS20 ⁶⁾	3VA9213-0RS20 ⁷⁾	-	-	_	_
	_	_	3VA9114-0RS10 6)	_	_	_	_	_
•	-	-	3VA9114-0RS20 ⁶⁾	3VA9214-0RS20 ⁷⁾	-	-	-	-
Monitoring mode (tripping can be disabled as an option)	Remote test/ remote reset	Communica- tion-capable						
-	_	-	3VA9113-0RL20	3VA9213-0RL20	-	-	-	-
•	-	-	3VA9113-0RL21	-	-	-	-	-
			_	_	3VA9123-0RL30	3VA9223-0RL30	3VA9323-0RL30	3VA9423-0RL30
_	_	_	3VA9114-0RL10	_	_	_	_	_
_	_	_	3VA9114-0RL20	3VA9214-0RL20	_	_	_	_
•	-	-	3VA9114-0RL21	-	-	-	-	-
			_	_	3VA9124-0RL30	3VA9224-0RL30	3VA9324-0RL30	3VA9424-0RL30
			3VA9988-0BR10	3VA9988-0BR10	-	-	-	-

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Communication

Metering function 1)			ETU 5- series	ETU 8- series	Display in ETU	Display DSP800	Communication COM800/COM100
Current							
Phase and neutral conductor currents	I ₁ , I ₂ , I ₃ , I _N	А					
Residual current to ground	l _g	А					
Phase with highest load		Α		•			
Mean value over the three phase currents	$I_{leading axis} = (I_1 + I_2 + I_3)/3$	Α	-		-		
Asymmetry of the phase currents	I _{nba}	%	-		-		
THD of the 3 phases	THDI ₁ , THDI ₂ , THDI ₃	%	-		-		
Voltage							
Phase voltages incl. mean value	U ₁₂ , U ₂₃ , U ₃₁ , U _{phavg}	V	-				
Voltages to N conductor incl. mean value	U _{1N} , U _{2N} , U _{3N} , U _{Navg}	V	-		-		
Voltage unbalance		%	-		-		
THD phase/phase and phase/N	THDI ₁ , THDI ₂ , THDI ₃	%	-	•	-		
Power							
Active power, total and per phase	P ₁ , P ₂ , P ₃ , P _{tot}	kW	-	•	□ (P _{tot})		
Apparent power, total and per phase	S ₁ , S ₂ , S ₃ , S _{tot}	kVA	-		-		
Reactive power, total and per phase	Q ₁ , Q ₂ , Q ₃ , Q _{tot}	kVAr	-	•			
Power factor of the fundamental	P _{F1} , P _{F2} , P _{F3} , P _{Favg}		-	•	□ (PF _{avg})		
Energy							
Active energy, infeed and feedback	Ep	kWh	-	•			
Reactive energy, infeed and feedback	E _q	kVArh	-		-		
Apparent energy	E _s	kVAh	-	•	-		
Frequency							
Present frequency	f	Hz	-	•			
Maximum pointer function							
Min./max. current, voltage, power	With time stamp	-	-	-	-	-	-

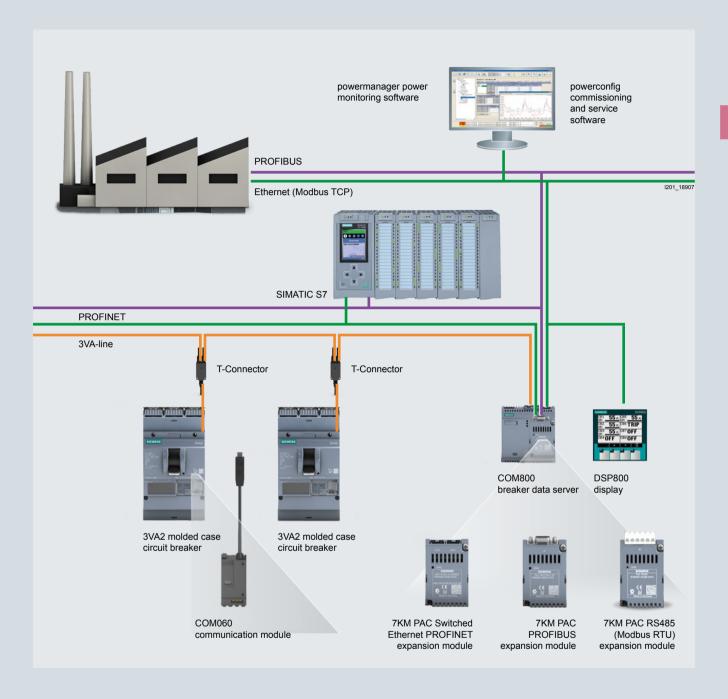
¹⁾ Depending on ETU version

■ Available

□ Displayable

- Not available

		3VA20	3VA23
		3VA21	3VA24
		3VA22	3VA25
COM060 commun	ication modules		
	 For mounting in the right-hand accessories compartment of the 3VA2 molded case circuit breaker (including ETU power supply) Including a T-Connector 		
	Purpose		
	Communication to the COM800/COM100 breaker data server via 3VA line	3VA9187-0TB10	3VA9387-0TB10
24 V modules			
	24 V DCFor mounting in the right-hand accessories compartment of the 3VA2		
	Purpose		
W 14	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



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Communication

Breaker data server

COM800 breaker data servers



Central communication module for connection of up to eight 3VA2 molded case circuit breakers via the 3VA line, Ethernet 10/100 Mbps interface module socket for inserting an optional PROFIBUS DP or PROFINET module, 2 terminating resistors

Article No. 3VA9987-0TA10

COM100 breaker data servers



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

3VA9987-0TA20

7KM PAC PROFIBUS DP expansion modules



Purpose Used for connecting the COM800/COM100 breaker data server, and the 3VA molded case circuit breakers connected to it, to PROFIBUS DPV1. Supplies the state and measured variables of the 3VA molded case circuit breaker for the PROFIBUS DP master. Receives information (e.g. commands) from the PROFIBUS DP master and transmits them to the 3VA molded case circuit breaker.

Article No.

7KM PAC Switched Ethernet PROFINET expansion modules

2 terminating resistors



Purpose Used for connecting the COM800/COM100 breaker data server, and the connected 3VA molded case circuit breakers, to PROFINET via two Ethernet interfaces. Supplies the state and measured variables of the 3VA molded case circuit breakers to PROFINET via the PROFINET IO, PROFlenergy and Modbus TCP protocols.

Article No. 7KM9300-0AE01-0AA0

7KM9300-0AB01-0AA0

7KM PAC RS485 Modbus RTU expansion modules



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

Operating voltage

7KM9300-0AM00-0AA0

Article No.

6MF28021AA00

6MF28620AA00

6MF28622AA00

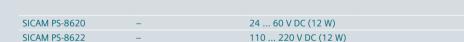
Interfaces to IEC 61850 new

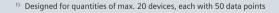
• The SICAM A8000 smart breaker data server connects the circuit breakers from the SENTRON portfolio via the MODBUS TCP/IP protocol and transmits data via communication protocols (e.g.: IEC 61850, IEC 60870-5-104, IEC 60870-5-101, MODBUS and DNP) to higher-level systems.

Processor assembly

4 interfaces

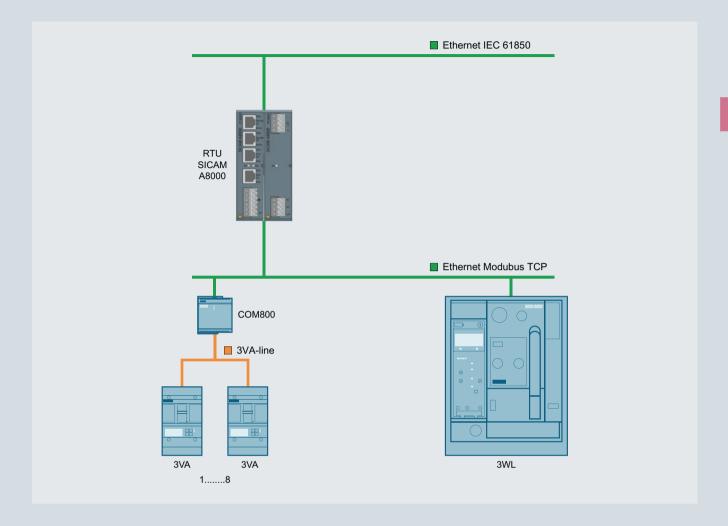






SICAM CP-8021 1)

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



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Communication

Accessories for communication

	are part)		
C TO	Purpose		Article No.
10	Provides a stub connection to the COM060 and lo	ops through to the next circuit breaker.	3VA9987-0TG10
DIN rail adapters			
1	Purpose		Article No.
mmm	For snapping the T-Connector onto a DIN rail.		3VA9987-0TG11
Prefabricated cor	nnecting cables, T-connector – T-connector or T-c	connector – COM800/COM100	
	Length		Article No.
	0.4 m		3VA9987-0TC10
	1 m		3VA9987-0TC20
	2 m		3VA9987-0TC30
	4 m		3VA9987-0TC40
Prefabricated cor	nnecting cables for extending the COM060 – T-co	onnector stub connection	
	Length		Article No.
	0.4 m		3VA9987-0TF20
	0.8 m		3VA9987-0TF10
Additional bus te	rminating resistors (spare part)		
	Purpose		Article No.
	For COM800 and COM060		3VA9987-0TE10
Voltage tap for ex	xternal N conductors (spare part)		
	Purpose		Article No.
and a	Cable for connection of the star point for the meter	ering function of the 8-series ETU, length 1.5 m	3VA9987-0UC10
B			
External current t	transformer for N conductors		_
External current t	transformer for N conductors Purpose	Rated current I _n	Article No.
External current t		Rated current I _n 25 150 A	Article No. 3VA9007-0NA10
External current	Purpose For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs,	·	
External current	Purpose For 3VA2 3-pole molded case circuit breakers,	25 150 A	3VA9007-0NA10
	Purpose For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs,	25 150 A 160 350 A	3VA9007-0NA10 3VA9107-0NA10
	Purpose For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables	25 150 A 160 350 A	3VA9007-0NA10 3VA9107-0NA10
	Purpose For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables transformers as straight-through transformers	25 150 A 160 350 A	3VA9007-0NA10 3VA9107-0NA10 3VA9307-0NA10
	Purpose For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables transformers as straight-through transformers Rated current I _n	25 150 A 160 350 A	3VA9007-0NA10 3VA9107-0NA10 3VA9307-0NA10 Article No.
	Purpose For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables transformers as straight-through transformers Rated current I _n 25 150 A	25 150 A 160 350 A	3VA9007-0NA10 3VA9107-0NA10 3VA9307-0NA10 Article No. 3VA9077-0NA10
	Purpose For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables transformers as straight-through transformers Rated current I _n 25 150 A 160 350 A	25 150 A 160 350 A	3VA9007-0NA10 3VA9107-0NA10 3VA9307-0NA10 Article No. 3VA9077-0NA10 3VA9177-0NA10
External current	Purpose For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables transformers as straight-through transformers Rated current I _n 25 150 A 160 350 A 400 630 A	25 150 A 160 350 A 400 630 A	3VA9007-0NA10 3VA9107-0NA10 3VA9307-0NA10 Article No. 3VA9077-0NA10 3VA9177-0NA10 3VA9377-0NA10
External current	Purpose For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables transformers as straight-through transformers Rated current I _n 25 150 A 160 350 A 400 630 A 600 1250 A	25 150 A 160 350 A 400 630 A	3VA9007-0NA10 3VA9107-0NA10 3VA9307-0NA10 Article No. 3VA9077-0NA10 3VA9177-0NA10 3VA9377-0NA10
External current	Purpose For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables transformers as straight-through transformers Rated current I _n 25 150 A 160 350 A 400 630 A 600 1250 A	25 150 A 160 350 A 400 630 A	3VA9007-0NA10 3VA9107-0NA10 3VA9307-0NA10 Article No. 3VA9077-0NA10 3VA9377-0NA10 3VA9377-0NA10 3VA9677-0NA10

Display

DSP800 displays



For displaying the status and measured values of up to eight devices

3VA2 via COM800/100

- 3VA27
- 3WL10
- PAC3200T

• 3WL11-13

System overview, page 2/20

Article No.

3VA9987-0TD10

External function box

EFB300 external function boxes



- 4 digital outputs for information output1 digital input
- ZSI functionality
- SO-Interface Including cable 1.5 m in length

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

Connecting cables for EFB300



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

Test devices			
TD300 test devices			
	Purpose	Connection	Article No.
	For activation of the ETU and initiation of a test tripping operation	On the front interface of the ETU	3VA9987-0MA10
TD400 test devices			
	 Energy supply via batteries or the USE USB-C interface for connecting a PC w Bluetooth interface for connection to ETU parameterization Including adapter and connecting cab Including case 	ith powerconfig	
	Purpose	Connection	Article No.
	Initiation of a test tripping operation	On the front interface of the ETU (3VA and IEC 3WL ETU release 2)	3VW9011-0AT40

TD500 test devices



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

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

External power supplies for TD500 (spare part)



Voltage 110 ... 240 V

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



Article No. 3VA9987-0MY10

Article No.

3VA9987-0MX10

Locking, blocking and interlocking

					3VA20 3VA21
			3VA11	3VA12	3VA22
Locking	The locking devices make it possib in either the OFF or the ON operat	le to lock the 3VA molded case circuit breakers ing position.			
	Version				
	Cylinder lock Key 1 (l	ock number 1)		3VA9980-0VL10	
		ock number 3)		3VA9980-0VL30	
	Key 4 (I	ock number 4)		3VA9980-0VL40	
	Adapter kit for mounting the cylinder of the molded case circuit breaker	lock (type Ronis) in the accessories compartment	3VA9157-0LF10	3VA9257-0LF10	3VA9167-0LF10
	Locking device for toggle operating n	nechanism	3VA908	8-0LB10	3VA9388-0LB10
Interlocking					
	 molded case circuit breakers. The interlock system is designed to circuit breaker can be operated at 	s possible to mutually interlock two or more o ensure that no more than one molded case a time. king can be used on 3VA molded case			
	Version				
	Cylinder lock Key 1 (l	ock number 1)		3VA9980-0VL10	
		ock number 3)		3VA9980-0VL30	
	Key 4 (I	ock number 4)		3VA9980-0VL40	
	Sliding bar interlock		3VA9158-0VF30	3VA9258-0VF30	3VA9168-0VF30
15	Module for handle interlock using a B	Bowden cable	3VA9157-0VF10	3VA9257-0VF10	3VA9167-0VF10
	Bowden cable	Length 1.0 m		3VA9980-0VC10 3VA9980-0VC20	
		Length 1.0 m Length 1.5 m		3VA9980-0VC20 3VA9980-0VC30	
	Rear interlock with rod	Circuit breaker, fixed-mounted		3VA9088-0VM10	
		Plug-in/draw-out technology		3VA9088-0VM30	
	Mounting frame for rear interlock wit		3VA9088-0VK10	-	-
		Mounting panels	3VA9158-0VK20	3VA9258-0VK20	3VA9268-0VK20

Available from Q1/2020
 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 3VA23	3VA15						
	3VA24	3VA25						
	377121	317.23	Locking					
			<u> </u>					
			Use in	Locking in OFF position	Locking in ON position	Front mounting	Rear mounting	Interlocked breakers
	3VA9980-0VL10	-	Breakers, motor-drive		•	•	-	-
	3VA9980-0VL30	-	mechanisms, manual					
	3VA9980-0VL40	-	operators, withdraw- able technology					
	3VA9367-0LF10	3VA9587-0LF10	Circuit breaker	•	•	•	_	-
	3VA9388-0LB10	3VA9588-0LB10	Circuit breaker	•	•	•	-	-
			Interlocking					
			Use in	Locking in OFF position	Locking in ON position	Front mounting	Rear mounting	Interlocked breakers
	3VA9980-0VL10	-	Breakers, manual			•	-	Unlimited
	3VA9980-0VL30	-	operators					
	3VA9980-0VL40	-						
	3VA9368-0VF30	-	Circuit breaker	-	-	•	-	3
	3VA9367-0VF10	3VA9587-0VF10	Circuit breaker					3
	3VA9367-UVF1U	3VA9367-UVF1U	Circuit breaker	-	-	•	-	3
		0-0VC10						
		0-0VC20						
3VA9980-0VC30								
	3VA9088-0VM10	3VA9588-0VM10 1) 2)	Circuit breaker, fixed-mounted	-	-	-		2
	3VA9088-0VM30	3VA9588-0VM10 1) 2)	Plug-in/draw-out technology				•	
	- 3VA9468-0VK20	-		_	_			

Cover frame and mounting

		3VA11	3VA12
for door cutouts for molded			
Number of poles	Door cut-out with trip unit		
3P	No	3VA9053-0SB10	3VA9253-0SB
	Yes	3VA9053-0SB20	3VA9253-0SB
4P	No	3VA9054-0SB10	3VA9254-0SB
	Yes	3VA9054-0SB20	3VA9254-0SB2
for MO320 motor operators			
Purpose			
MO320 motor operator		3VA9053-0SB20	3VA9257-0SB
Motor operator with SEC	520 stored energy operator	-	-
for RCD320, RCD520 and RCI	0820 residual current devices	_	
Number of poles			
3P		3VA9053-0SB10	3VA9253-0SB
4P		3VA9054-0SB10	3VA9254-0SB
for front mounted rotary op	erators		
		3VA9053-0SB10	3VA9253-0SB
for door feedthroughs			
		-	3VA9253-0SB
s for cover frame		_	
for cover frame	_	3VA	9087-0SX10
s for cover frame	o circuit broakors	3VA	9087-05X10
s for cover frame DIN rails for 3VA1 molded ca: Number of poles	se circuit breakers	3VA	9087-0SX10
IN rails for 3VA1 molded ca	se circuit breakers	3VA 3VA9181-0SH10	9087-0SX10 _
DIN rails for 3VA1 molded cas Number of poles	se circuit breakers		9087-05X10 - -
OIN rails for 3VA1 molded case Number of poles 1P	se circuit breakers	3VA9181-0SH10 3VA9182-0SH10	9087-05X10 - - -
DIN rails for 3VA1 molded cas Number of poles 1P 2P		3VA9181-0SH10	-
DIN rails for 3VA1 molded car Number of poles 1P 2P 3P and 4P		3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10	-
DIN rails for 3VA1 molded car Number of poles 1P 2P 3P and 4P 3P and 4P in connection		3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10	-
Number of poles 1P 2P 3P and 4P 3P and 4P in connection	with RCD310 or RCD510 Number of poles	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10	-
Number of poles 1P 2P 3P and 4P 3P and 4P in connection we kits Purpose	with RCD310 or RCD510 Number of poles	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20	-
Number of poles 1P 2P 3P and 4P 3P and 4P in connection w kits Purpose	with RCD310 or RCD510 Number of poles ers 1P	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20 3VA9111-0SS10 3VA9111	
Number of poles 1P 2P 3P and 4P 3P and 4P in connection we kits Purpose	with RCD310 or RCD510 Number of poles ers 1P 2P and 3P (apart from 125 A/160 A with 55 kA and 70 kA)	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20 3VA9111-0SS10 3VA9111	- - - - - 6-0SS10
Number of poles 1P 2P 3P and 4P 3P and 4P in connection w kits Purpose	with RCD310 or RCD510 Number of poles ers 1P 2P and 3P (apart from 125 A/160 A with 55 kA and 70 kA) 3P (125 A/160 A with 55 kA and 4P	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20 3VA9111-0SS10 3VA9111	- - - - 6-0SS10 4-0SS10
IN rails for 3VA1 molded case Number of poles 1P 2P 3P and 4P 3P and 4P in connection w kits Purpose	with RCD310 or RCD510 Number of poles ers 1P 2P and 3P (apart from 125 A/160 A with 55 kA and 70 kA) 3P (125 A/160 A with 55 kA and 70 kA) and 4P 3P	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20 3VA9111-0SS10 3VA9111	- - - - 6-0SS10 4-0SS10
IN rails for 3VA1 molded cas Number of poles 1P 2P 3P and 4P 3P and 4P in connection w kits Purpose	with RCD310 or RCD510 Number of poles ers 1P 2P and 3P (apart from 125 A/160 A with 55 kA and 70 kA) 3P (125 A/160 A with 55 kA and 70 kA) and 4P 3P 4P	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20 3VA9111-0SS10 3VA911 - -	- - - - 6-0SS10 4-0SS10

	3VA13	
3VA20	3VA14	
3VA21	3VA23	3VA15
3VA22	3VA24	3VA25
21/40162 05010	21/40202 05040	21/40502 05010
3VA9163-0SB10 3VA9163-0SB20	3VA9383-0SB10 3VA9363-0SB20	3VA9503-0SB10 3VA9503-0SB20
3VA9163-03B20 3VA9164-0SB10	3VA9383-03B20 3VA9384-0SB10	3VA9503-03B20 3VA9504-0SB10
3VA9164-0SB20	3VA9364-0SB20	3VA9504-0SB20
3VA9257-0SB30	3VA9387-0SB30	-
3VA9257-03B30	- -	_
37.13.107 03230		
21/40252 05840	21/40202 05040	
3VA9253-0SB10 3VA9254-0SB10	3VA9303-0SB40 3VA9304-0SB40	-
3VA9234-03B10	3VA93U4-U3D4U	_
3VA9163-0SB10	3VA9383-0SB10	3VA9503-0SB50
3VA9253-0SB20	3VA9353-0SB20	-
	21/40027 001/40	
	3VA9087-0SX10	
-	-	-
-	_	_
_	-	_
-	-	-
_	-	-
-	-	-
3VA9126-0SS10 3VA9124-0SS10	-	-
5VA9124-U551U	- 3VA9328-0SS10	- 3VA9517-0SS10
	- -	- -
3VA9124-0SS10	3VA9328-0SS10	-

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System overview

For a complete and verified configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/configurator-3VA27

Basic units





Handle

Stored energy operator

Trip units



Electronic trip unit (ETU)

Accessories









Communication module

Rating plugs

Breaker Connect module

Test devices and breaker data adapters

Main conductor connections



Rear vertical/

horizontal

Rear



broadened

Front extended



Front broadened

Cable lug

Accessories





Phase barriers

Terminal cover

Motors



Spring charging motor

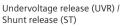
Accessories



Mechanical operating cycles counter (MOC)

Auxiliary releases / closing coils







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

Auxiliary switches

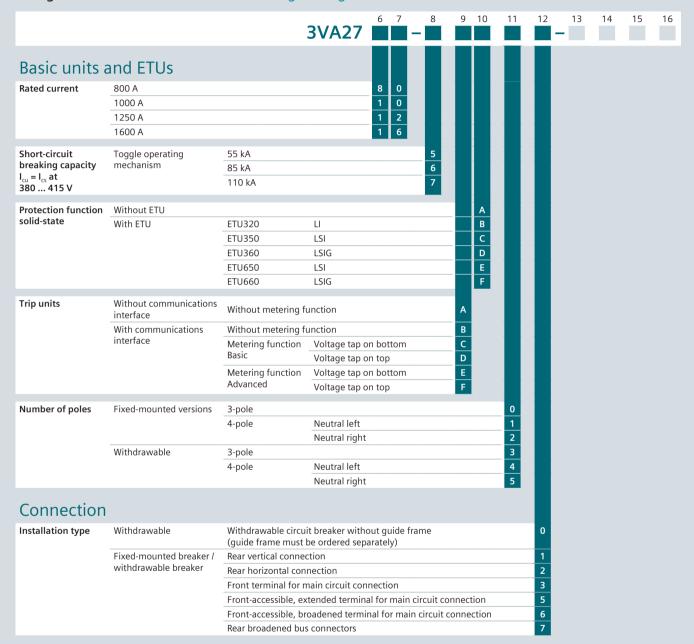


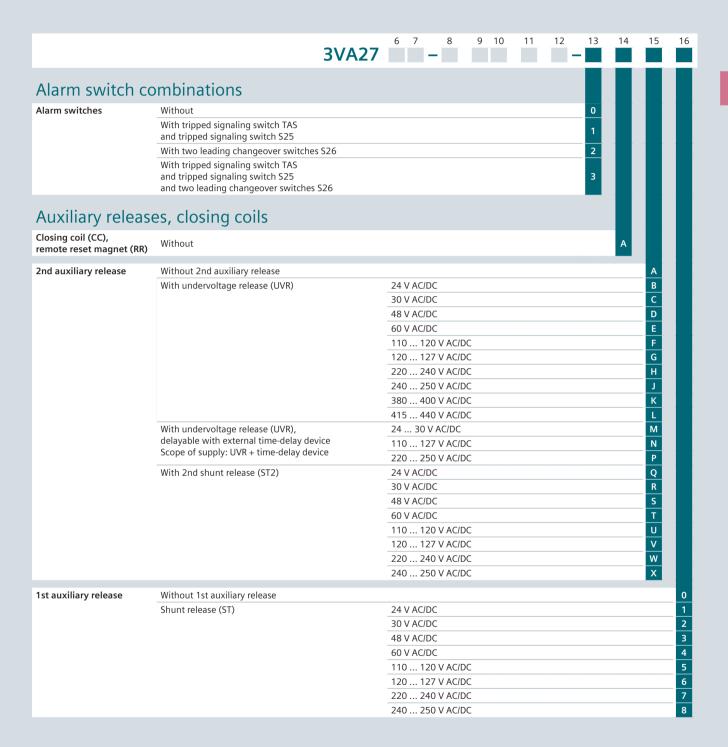


Structure of the article numbers

Basic configuration with toggle operating mechanism 🚄

For a complete and verified configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/configurator-3VA27



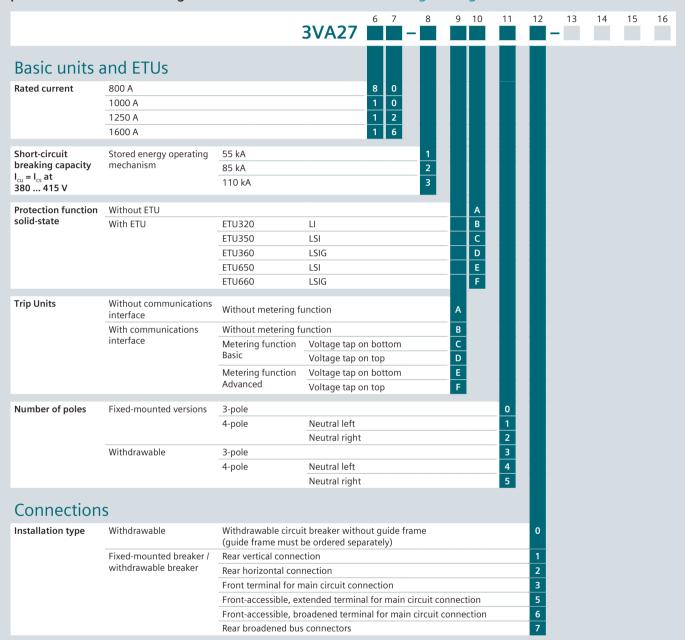


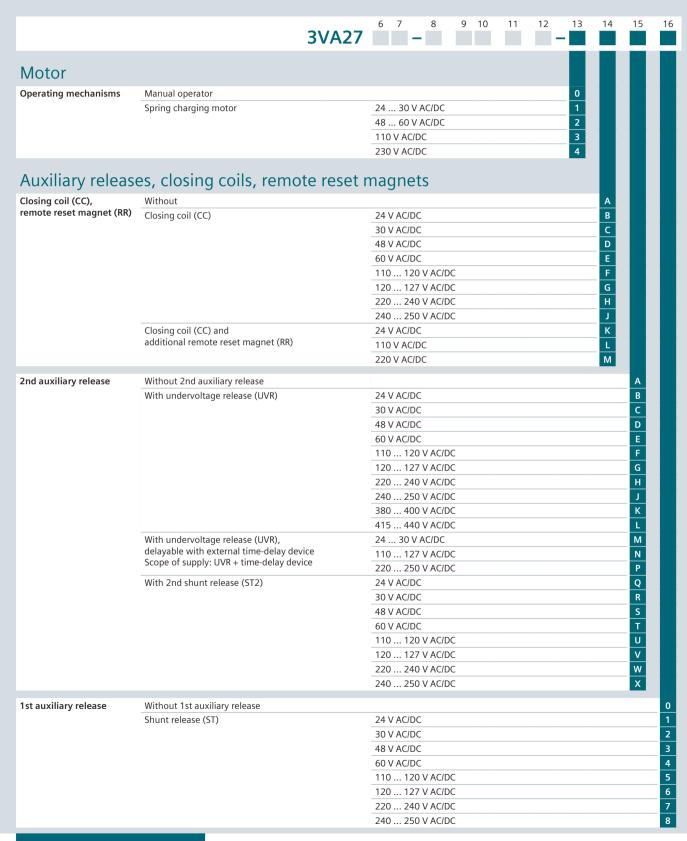
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Structure of the article numbers

Basic configuration with stored energy operating mechanism 9

For a complete and verified configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/configurator-3VA27





Accessory options

Configure your molded case circuit breaker easily online at

www.siemens.com/lowvoltage/configurator-3VA27

To specify the options, add "-Z" to the complete Article No. and

indicate the appropriate order code(s). 3VA27..-....-Z Accessories for basic configuration Mounting options for fixed mounting • In the basic configuration, the fixed-mounted circuit breaker is mounted onto the rear panel. Floor mounting is possible as an option. The device must additionally be modified if it is to be extended to include functionalities such as external auxiliary switches or mechanical interlocks.1) Mounting options for Mounting support standard Floor mounting fixed mounting¹⁾ S 5 ୭ ∡ 6 Mounting support extended 2) ୭ ∡ Rear panel mounting onto mounting plate Side wall extended 2) Accessories for electronic trip units ETU Rating plugs The electronic trip units are equipped as standard with a rating plug for setting the rated current In, which is equal to the maximum rated circuit breaker current ($< I_{n \text{ max}}$). The rated current of the selected rating plug must be less than or equal to $I_{n \text{ max}}$ To downrate the circuit breaker, a rated current smaller than $I_{n \text{ max}}$ is selected for the rating plug via a Z option. Other functions can also be activated using rating plugs (L = OFF or Rc protection). For setting the rated current In Rating plug For all ETU ୭ ∡ В 0 6 630 A ഉ В 0 8 800 A 4 1000 A ഉ 4 0 В 2 1200 A ഉ 4 4 For setting the rated current I_n, with overload ഉ For ETU 6-series 400 A 2 protection L = OFF 6 0 ඉ 2 630 A 0 8 ര 800 A 2 0 ရ 1000 A

Communication modules

• Up to 2 different communication modules can be used at the same time.

COM043

COM042

110 ... 240 V AC/DC

• When using an IOM040 digital I/O module (Z option K56), only 1 communication module can be used.

For enabling the residual current protection function.

The residual current function is only possible with the

For setting the rated current I,

MF Advanced metering function.

В	Breaker Connect modules	١
•	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.	١
•	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.	ı

Modbus TCP

Modbus RTU

Breaker Connect module

Communication modules

I/O modules interna	I						
I/O modules internal	IOM040 digital I/O module	2 inputs, 2 outputs	ඉ	4	К	5	6

1250 A

1600 A

400 A

630 A

800 A

1250 A

For ETU660 only

9

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9 <u>∡</u> 9 <u>∡</u>

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Order code

⁹ For molded case circuit breakers with stored energy operating mechanism

 $^{{\}color{red} \angle}$ For molded case circuit breakers with toggle operating mechanism

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

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

appropriate order code	, add "-Z" to the complete Article N e(s).	Io. and indicate the 3VA27			Z	Ord	ler co	ode
Accessories to	r matars	2 27 32 37 37						
Accessories for	rmotors							
5-digit mechanical operat	ting cycles counter		9	-		С	0	1
Auxiliary switc	hes and signaling swit	ches						
 For currents <100 mA for The auxiliary/signaling s minimum load above 	witches for currents >100 mA and up to 4 or PLC connections, these auxiliary and sig witches for 24 V DC digital signals are des 1 mA at 5 V DC, and a apacity of 100 mA at 24 V DC.	naling switches can be replaced.						
Position signaling switches for guide frames 2 CO 2 CO 2 CO (connected test disconnected position)				∡		к	5	5
Signaling switch	Ready-to-close signaling	1 CO contact digital 24 V DC	9	-		К	5 5	0
	Tripped signaling switch (S24) 1 CO contact digital 24 V DC			≟		К		3
	Spring charged signaling switch (S2	1) 1 CO contact digital 24 V DC	9	-		K	5	4
	O LOff ALIV	4.60		,		К	5	1
Auxiliary switch	On / Off AUX	4 CO contacts digital 24 V DC	ഉ	∠				
Auxiliary switch	On / Off AUX	4 CO contacts digital 24 V DC 2 CO contacts 400 V AC, and 2 CO contacts digital 24 V DC	9	≟		K	5	2
,	ing and interlocking							
,	ing and interlocking To prevent movement of		9					
Locking, block	ing and interlocking	2 CO contacts 400 V AC, and 2 CO contacts digital 24 V DC	9	∡		K	5	2
Locking, block	ing and interlocking To prevent movement of	2 CO contacts 400 V AC, and 2 CO contacts digital 24 V DC Cylinder lock Made by Ronis For no more than three 8-mm padlocks	9	∡ ∡		K R	5 7	2
Locking, block Locking devices	ing and interlocking To prevent movement of withdrawable circuit breaker To prevent movement to disconnect	2 CO contacts 400 V AC, and 2 CO contacts digital 24 V DC Cylinder lock Made by Ronis For no more than three 8-mm padlocks	9	∡ ∡		R R R	5 7 6	2 8 5
Locking, block Locking devices Locking mechanism	ing and interlocking To prevent movement of withdrawable circuit breaker To prevent movement to disconnect	2 CO contacts 400 V AC, and 2 CO contacts digital 24 V DC Cylinder lock Made by Ronis For no more than three 8-mm padlocks ted position	9 9	∡ ∡ ∡		K R	7 6 7 0	2 8 5 9
Locking, block Locking devices Locking mechanism	ing and interlocking To prevent movement of withdrawable circuit breaker To prevent movement to disconnect to prevent unauthorized activation	2 CO contacts 400 V AC, and 2 CO contacts digital 24 V DC Cylinder lock Made by Ronis For no more than three 8-mm padlocks ted position Cylinder lock, made by Ronis	9 9 9	∡ ∡ ∡ -		R R R S S	7 6 7 0 2	8 5 9 8
Locking, block Locking devices Locking mechanism	ing and interlocking To prevent movement of withdrawable circuit breaker To prevent movement to disconnect to prevent unauthorized activation	2 CO contacts 400 V AC, and 2 CO contacts digital 24 V DC Cylinder lock Made by Ronis For no more than three 8-mm padlocks ted position Cylinder lock, made by Ronis For no more than 3 padlocks, plastic 4 mm	9 9 9	≼ ≼ ≼ − −		R R R S	7 6 7 0	2 8 5 9 8 2
Locking, block Locking devices Locking mechanism	ing and interlocking To prevent movement of withdrawable circuit breaker To prevent movement to disconnect to prevent unauthorized activation	2 CO contacts 400 V AC, and 2 CO contacts digital 24 V DC Cylinder lock Made by Ronis For no more than three 8-mm padlocks ted position Cylinder lock, made by Ronis For no more than 3 padlocks, plastic 4 mm For no more than 1 padlock, metal 7 mm	9 9 9	∡ ∡ ∠ - -		R R R S S	5 7 6 7 0 2 2 2	8 5 9 8 2 3 7
Locking, block Locking devices Locking mechanism Locking device	ing and interlocking To prevent movement of withdrawable circuit breaker To prevent movement to disconnect to prevent unauthorized activation in the operator panel (safe OFF)	2 CO contacts 400 V AC, and 2 CO contacts digital 24 V DC Cylinder lock Made by Ronis For no more than three 8-mm padlocks ted position Cylinder lock, made by Ronis For no more than 3 padlocks, plastic 4 mm For no more than 1 padlock, metal 7 mm For no more than 2 padlocks, metal 8 mm	9 9 9 9	<u>∡</u>		R R R S S S S S S S	7 6 7 0 2	2 8 5 9 8 2 3
Locking, block Locking devices Locking mechanism Locking device	ing and interlocking To prevent movement of withdrawable circuit breaker To prevent movement to disconnect To prevent unauthorized activation in the operator panel (safe OFF) For mechanical ON and/or OFF on	2 CO contacts 400 V AC, and 2 CO contacts digital 24 V DC Cylinder lock Made by Ronis For no more than three 8-mm padlocks ted position Cylinder lock, made by Ronis For no more than 3 padlocks, plastic 4 mm For no more than 1 padlock, metal 7 mm For no more than 2 padlocks, metal 8 mm For no more than 3 padlocks, plastic 4 mm	9 9 9 9	∡ ∡ ∠ - - - -		R R R S S	5 7 6 7 0 2 2 2	8 5 9 8 2 3 7
Locking, block Locking devices Locking mechanism Locking device	ing and interlocking To prevent movement of withdrawable circuit breaker To prevent movement to disconnect To prevent unauthorized activation in the operator panel (safe OFF) For mechanical ON and/or OFF on	2 CO contacts 400 V AC, and 2 CO contacts digital 24 V DC Cylinder lock Made by Ronis For no more than three 8-mm padlocks ted position Cylinder lock, made by Ronis For no more than 3 padlocks, plastic 4 mm For no more than 1 padlock, metal 7 mm For no more than 2 padlocks, metal 8 mm For no more than 3 padlocks, plastic 4 mm For no more than 1 padlock, metal 7 mm For no more than 1 padlock, metal 7 mm For no more than 2 padlocks, metal 8 mm	9 9 9 9 9	∡		R R R S S S S S S S	7 6 7 0 2 2 0 4 4	8 5 9 8 2 3 7 2

⁹ For molded case circuit breakers with stored energy operating mechanism

Guide frames

Guide frames for ordering separately without circuit breakers

3VA27



- Guide frames without breakers up to 1250 A
- Note: All CB bus modules for communication COM04x / IOM300 / Breaker Connect module, as well as COMPSS signaling switches are configured without frames in the withdrawable circuit breaker and defined there by means of Z options, and are included with the switching device. PSS Standard is always included in the frame and can be changed to an electronics-capable signal by means of a Z option.

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

To specify the options, add "-	-Z" to the complete Article No	o. and indicate				Ord	er co	ode
the appropriate order code(s).	3VW8			Z			
Locking, blocking a	and interlocking							
Locking device	To prevent movement of	Cylinder lock, made by Ronis	ඉ	∡		R	7	8
withdrawable circuit breaker		For no more than 3 8-mm padlocks	ඉ	∠		R	6	5
Locking mechanism	To prevent movement to disco	nnected position (only in combination with R78 or R65)	9	<u>~</u>		R	7	9
Auxiliary/signaling	switches							
Position signaling switch PSS for guide frame	For 24 V DC digital signals, for minimum currents	2 CO 2 CO 2 CO (connected test disconnected position)	9	∡		К	5	5

Auxiliary and signaling switches for currents >100 mA and up to 400 V AC are installed as standard. For currents <100 mA for PLC connections, these auxiliary and signaling switches can be modified. The auxiliary/signaling switches for 24 V DC digital signals are designed for

- The auxiliary/signaling switches for 24 V DC digital
 a minimum load above 1 mA at 5 V DC, and
- a maximum breaking capacity of 100 mA at 24 V DC.

⁹ For molded case circuit breakers with stored energy operating mechanism

 $^{{\}color{red} {\color{red} \angle}}$ For molded case circuit breakers with toggle operating mechanism

Electronic trip unit ETU and accessories

						3VA27
Electronic trip unit	ts (ETU)					
	Version	With communications / metering function, enhanced protection functions	Туре	Protective function		Article No.
THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	With rotary coding switches	No	ETU320	LIN	9 ∡	3VW9011-5AA00
			ETU350	LSIN	9 ≰	3VW9012-5AA00
			ETU360	LSING	9 🚣	3VW9012-7AA00
740 (8)	With display	Yes	ETU650	LSIN	9 <u>∡</u>	3VW9017-5AA00
			ETU660	LSING	9 ≰	3VW9017-7AA00
Metering function	s for ETU650 or ETU660					
MINE	Description	Protective function / version		Arrangement		Article No.
	Metering function	MF Basic		-	9 <u>∡</u>	3VW9011-0AT01
2		MF Advanced		_	୭ <u>∡</u>	3VW9011-0AT04
O management	Set of cables for voltage tap for MF	For 4-pole circuit breakers with N conductor right		Top or bottom	9 <u>⊀</u>	3VW9011-0AT08
		For 4-pole circuit breakers		Тор	9 ≰	3VW9011-0AT75
		with N conductor left		Bottom	9 ≰	3VW9011-0AT76
		For 3-pole circuit breakers		Тор	9 <u>∡</u>	3VW9011-0AT72
				Bottom	୭ <u>⊀</u>	3VW9011-0AT73
External current tr	ansformers for N conductor					
01/100	Accessory for	Purpose			0 1	Article No.
0.100	ETU320, ETU350, ETU360, ETU650, ETU660	Only for 3-pole circuit breakers			9 ≰	3VW9011-0AA30
External current tr	ansformers for grounded tr	ansformer star points				
	Accessory for	G _{ret} (Ground return)				Article No.
	ETU660	100 A			୭ <u>∡</u>	3VW9011-0GF30
		250 A			9 ∡	3VW9011-0GF31
Summation curren		CT for residual current measureme	ent			
		etering function and Rc rating plug				Article No.
	Accessory for	Purpose For outcome! recidue! current			9 ≰	
	ETU660	For external residual current measurement			9 =	3VW9011-0RC30
Remote reset mag	nets RR for the circuit break	ers including tripped signal				
	Remote reset magnet (RR)	for resetting the circuit breaker after t	ripping as a res	ult of overcurren	t conditions	
	Accessory for	Voltage				Article No.
	ETU320, ETU350, ETU360,	24 V DC			9 -	3VW9011-0AK03
CO.	ETU650, ETU660	110 V AC/DC			9 -	3VW9011-0AK05
		250 V AC/DC			9 –	3VW9011-0AK06
Replacement batte	eries for electronic trip unit	ETU				
	Accessory for					Article No.
	ETU320, ETU350, ETU360, E	TU650, ETU660			<u> </u>	3VW9011-0AT38

- **9** For molded case circuit breakers with stored energy operating mechanism
- riangle For molded case circuit breakers with toggle operating mechanism

Electronic trip unit ETU and accessories

							3VA27
Rated current mod	ules / rating plugs						
	Only one module	is possible per circuit breaker.					
In =400A	Accessory for	Version		Rated current I _n			Article No.
	ETU320, ETU350,	Rating plugs for setting (< I _{n max})		400 A	9	∡	3VW9011-0AA53
	ETU360, ETU650,	the rated current I _n		630 A	9	∡	3VW9011-0AA55
	ETU660			800 A	9	<u>∡</u>	3VW9011-0AA56
				1000 A	9	<u>∡</u>	3VW9011-0AA57
				1250 A	9	∡	3VW9011-0AA58
				1600 A	9	∡	3VW9011-0AA61
	ETU 6-series	Rating plug without overload protection (L = OFI	F)	400 A	9	<u>∡</u>	3VW9011-0LF53
		and for setting ($< I_{n \text{ max}}$) the rated current I_n		630 A	9	<u>∡</u>	3VW9011-0LF55
				800 A	9	∠	3VW9011-0LF56
				1000 A	9	<u>∡</u>	3VW9011-0LF57
				1250 A	9	<u>∡</u>	3VW9011-0LF58
				1600 A	9	∡	3VW9011-0LF61
	ETU660	Rating plug Rc for ETU660 for enabling the resid	ual	400 A	9	∡	3VW9011-0RC53
		current protection function and setting (< I _{n max}) the rated current I _n . The residual current function is only possible		630 A	9	∡	3VW9011-0RC55
				800 A	9	∡	3VW9011-0RC56
		with the MF Advanced metering function.		1250 A	9	<u>∡</u>	3VW9011-0RC58
CB bus modules - c	ommunication mod	ules					
	 When using a digi Can only be used breaker. This can 	communication modules can be used at the same ti tal I/O module IOM040 (Z option K56), only 1 comi with ETU of the 6-series and require a Breaker Conr also be configured directly on the device by means TU 6-series is selected.	municatior nect modul	e for connection t	to th	e circuit	
	Communication module	Protocol					Article No.
	COM043	Modbus TCP			9	∡	3VW9011-0AT16
	COM042	Modbus RTU			9	<u>∡</u>	3VW9011-0AT17
CB bus modules - I/	O modules external	IOM300					
	For snapping onto	standard mounting rail					
100	Accessory for	Maximum switching current per contact	Inputs	Outputs			Article No.
	ETU 6-series	 2 A at ≤ 30 V DC 0.8 A at 50 V DC 0.2 A at 150 V DC 4 A at 250 V AC 	11	10	9	≼	3VW9011-0AT20
CB bus modules - I/	O modules internal	IOM040					
72	When using a digi	tal I/O module IOM040, only 1 communication mo	dule can be	e used.			
	Accessory for	Maximum switching current per contact	Inputs	Outputs			Article No.
STATE	ETU 6-series	 2 A at ≤ 30 V DC 0.8 A at 50 V DC 0.2 A at 150 V DC 4 A at 250 V AC 	2	2	9	<u>∡</u>	3VW9011-0AT30

- $\underline{\textbf{9}} \;$ For molded case circuit breakers with stored energy 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 release (ST). Can only be used in combination with a communication module, spring charging motor, closing coil and 1st shunt release. Automatically included if the communications interface of theETU 6-series is selected in the basic circuit breaker configuration. Accessory for Article No. ETU 6-series 3VW9011-0AT10 ഉ **Breaker Connect modules** • For external power supply for the electronics components Article No. 110 ... 240 V AC/DC ୭ ∡ 3VW9011-0AT06 24 ... 48 V DC ഒ 4 3VW9011-0AT07 Auxiliary contact signals for communications interfaces · Auxiliary contacts for signaling the readiness to close or for position signaling switches of the withdrawable positions. Can only be used in combination with communication module. Can be combined with standard position signaling switches or ready-to-close signaling contacts. Note: Both signaling switches are automatically included in the basic circuit breaker (COM PSS only with withdrawable versions) if the communications interface of the ETU 6-series is selected. Function Article No. Ready-to-close signaling switch for communication (COM RTC) 9 3VW9011-0AT11 Position signaling switch COM PSS (for withdrawable breaker only) 9 ∡ 3VW9011-0AT12 Test devices and breaker data adapters • Usable for all ETU 3-series and 6-series Description Article No. Test device TD310 ඉ <u>∡</u> 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 Breaker data adapter TD410 3VW9011-0AT34 As gateway for parameterization of the ETU with powerconfig • For generation of a report of the set parameters with powerservice Test device and breaker data adapter TD420 **9** 🔏 3VW9011-0AT33 As gateway for parameterization of the ETU with powerconfig Testing a tripping operation using powerconfig For use with the powerservice software Testing of the basic protection functions LSING Testing of the enhanced protection functions Test data storage Readout of ETU buffer Generation of a report of the set parameters

- **9** For molded case circuit breakers with stored energy operating mechanism
- ${\color{red} oldsymbol{\angle}}$ For molded case circuit breakers with toggle operating mechanism

Accessories for connection and insulation

					3VA27
terminals f		ections acc. to IEC 60947-2 .7-2 for 3VA27 up to 1600 A (dependi	ng on application condit	ions)	
		eparately for top and bottom	ng on application colldit	ions)	
	Version	Description	Mounting onto	Number of poles / quantity	Article No.
7	Fixed-mounted	Front terminals for main circuit	-	3-pole / 3 units 🧕 📥	3VW9011-0AL01
9 00		connection		4-pole / 4 units 9 👱	3VW9011-0AL02
4		Extended main terminals,	Front terminals	3-pole / 3 units ೨ ∠	3VW9011-0AL77
		including insulation plate and phase barriers, standard	for main circuit connection	4-pole / 4 units	3VW9011-0AL78
•••		Broadened main terminals, including insulation plate and extended phase barriers	Front terminals for main circuit connection, top	3-pole / 3 units	3VW9011-0AL73
			Front terminals for main circuit connection, bottom	3-pole / 3 units	3VW9011-0AL75
			Front terminals for main circuit connection, top/bottor	4-pole / 4 units ೨ ∠	3VW9011-0AL74
6.6	Withdrawable	Front-accessible terminals for	Guide frame flange	3-pole / 3 units ೨ ∡	3VW9011-0AN01
		main circuit connection		4-pole / 4 units 9 🗷	3VW9011-0AN02
		Broadened main circuit	Front-accessible	3-pole / 3 units ೨ <u>∡</u>	3VW9011-0AN73
		connections	terminals for main circuit connection	4-pole / 4 units 9 ∠	3VW9011-0AN74
erminals fo	or main circuit conne	ctions acc. to IEC 60947-2			
		7-2 for 3VA27 up to 1600 A (dependi eparately for top and bottom	ng on application condit	ions)	
	Fixing	Version	Mounting onto	Number of poles / quantity	Article No.
	Fixed-mounted	Rear terminals for main circuit	-	3-pole / 3 units	3VW9011-0AL32
		connection, rotatable for horizontal / vertical connection Including terminal cover		4-pole / 4 units	3VW9011-0AL33
	Withdrawable	Rear terminals for main circuit	-	3-pole / 3 units ೨ ∠	3VW9011-0AN32
4-1		connection, rotatable for horizontal / vertical connection Including terminal cover		4-pole / 4 units 9 👱	3VW9011-0AN33
		Broadened main terminals	Rear horizontal main	3-pole / 3 units ೨ ∠	3VW9011-0AN75
0.			connections	4-pole / 4 units 9 👱	3VW9011-0AN76
ble con	nections acc. to IEC 6	0947-2			
	To be ordered se	7-2 for 3VA27 up to 1600 A (dependi eparately for top and bottom	ng on application condit		
	Fixing	Version	Mounting onto	Number of poles / quantity	Article No.
-	Fixed-mounted	Circular conductor terminals	Front terminals	3-pole / 3 units ೨ ∠	3VW9011-0AL71
00		4 x 240 mm ² for front cable connection, including insulation plate and high, extended terminal cover	for main circuit connection	4-pole / 4 units 9 🚄	3VW9011-0AL72
3 .0	Withdrawable	Set of circular conductor	Rear vertical main	3-pole / 3 units ೨ ∠	3VW9011-0AN71
5 113		connection pieces 4 x 240 mm ² for cable lugs for rear cable connection	connections	4-pole / 4 units 9 <u>4</u>	3VW9011-0AN72

⁹ For molded case circuit breakers with stored energy operating mechanism

3VA27 Auxiliary supply connectors in push-in version · Auxiliary conductor terminal in push-in version for upgrading fixed-mounted breakers and guide frames. • The device is always fitted at the factory with the exact number of auxiliary conductor terminals required. Article No. Push-in <u> ∡</u> 3VW9011-0AB11 Terminal covers for fixed circuit breakers • Finger-proof for front terminals for main circuit connection for fixed-mounting Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately. Version Number of poles / quantity Article No. Standard 3-pole / 2 units 9 ∡ 3VW9723-0WD30 4-pole / 2 units 9 ∡ 3VW9724-0WD40 3VW9723-0WF30 Extended 3-pole / 2 units ඉ <u>∡</u> 4-pole / 2 units ඉ ∡ 3VW9724-0WF40 Phase barriers for fixed breakers · Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately • For operating voltages >440 V AC the use of phase barriers is mandatory; up to 440 V AC their use is optional. Number of poles / quantity Height Article No. 100 mm (standard) 9 ∡ 3VW9723-0WA00 3-pole / 4 units 4-pole / 6 units 9 3VW9724-0WA10 2 9 3VW9723-0WA01 200 mm (extended) 3-pole / 4 units 4-pole / 6 units 9 🚄 3VW9724-0WA11 Supports for mounting the fixed-mounted breakers on the floor · For fixed-mounted versions only **Purpose** Article No. Mounting support standard ୭ ∡ 3VW9011-0BB51 (circuit breaker feet) (= Z option A07) Mounting support extended • Fixation for external auxiliary switches AUX 15 CO 3VW9011-0BB52 (circuit breaker feet) (3VW9011-0AG15) Locking mechanism for control cabinet door, direct including mechanical trans-(for 3VW9011-0BB10) mission of switch position on circuit breaker side panel • Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16), (= Z option S56) Mutual mechanical interlocking to 3WL/3VA (for 3VW9011-0BB21) Extension kits for modification of the side wall of the fixed-mounted breakers · For fixed-mounted breakers only · Rear fixation on mounting plate • For modification for mechanical transmission of switch position on circuit breaker side panel (= Z option S57) **Purpose** Article No. Extension kit for side wall • Fixation for external auxiliary switches AUX 15 CO ୭ ∡ 3VW9011-0BB53 (3VW9011-0AG15) Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16), Mutual mechanical interlocking to 3WL/3VA (for 3VW9011-0BB21)

- For molded case circuit breakers with stored energy operating mechanism
- ${\color{red} oldsymbol{\angle}}$ For molded case circuit breakers with toggle operating mechanism

Motor operators and manual operators

					3VA27
Spring charging m	otor (MO)				
F-50	Description		Version		Article No.
	For automatic charging of t	he stored energy operating	24 30 V AC/DC	9 –	3VW9011-0AF01
The	mechanism		48 60 V AC/DC	9 –	3VW9011-0AF02
			100 130 V AC/DC	9 –	3VW9011-0AF03
			220 250 V AC/DC	9 –	3VW9011-0AF04
Mechanical operat	ting cycles counter MOC				
	Description		Version		Article No.
00000	Only possible in combination motor.	n with a spring charging	5 digits	<u>9</u> –	3VW9011-0AH07
Manual operators	for circuit breakers with to	ggle operating mechanisi	m		
	Description	Version	Color		Article No.
	Front rotary operating	Standard	Gray	- <u>-</u>	3VW9727-0EK11
	mechanism incl. door sealing frame	EMERGENCY STOP	Yellow-red	- ≰	3VW9727-0EK15
	Door mounted rotary	Standard	Gray	- 👱	3VW9727-0FK21
	operator	EMERGENCY STOP	Yellow-red	- 👱	3VW9727-0FK25
		Basic without handle		- ≰	3VW9727-0GK00
		Shaft stub		- <u>4</u>	8UD1900-3WD00
		Handle	Gray	- <u>-</u>	8UD1861-0AB11
			Yellow-red	- <u>∡</u>	8UD1861-0AB15

⁹ For molded case circuit breakers with stored energy operating mechanism

Auxiliary release, closing coil

3VA27 Closing coils / shunt releases CC / ST Version 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 releases · The TD320 test unit allows the operational availability and functions of the closing coils and shunt releases with a rated operational voltage between 24 V and 250 V (AC and DC) to be tested. The operational availability test is performed cyclically at intervals of 30 seconds. The unit has visual indicators in the form of LEDs on the front in order to display the following states: LED POWER ON LIT: Correct function of the YO/YC test unit LED DEACTIVATION LIT: Power supply failure, wire break - LED SHORT-CIRCUIT LIT: Winding short-circuit LED DEACTIVATION and SHORT-CIRCUIT FLASHING: Incorrect power supply LED DEACTIVATION and SHORT-CIRCUIT OFF: Closing coil / shunt release OK Description Article No. For all closing coils / shunt releases ඉ 3VW9011-0AT31 Auxiliary / signaling switches • The auxiliary/signaling switches for 24 V DC digital signals are designed for a minimum load above 1 mA at 5 V DC, and a maximum breaking capacity of 100 mA at 24 V DC. For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed-mounted breakers a 3VW9011-0BB5x side wall modification. Description Article No. Version Ready-to-close signal RTC 1 CO standard 3VW9011-0AH01 1 CO digital 3VW9011-0AH02 4 CO standard Auxiliary switch ON/OFF AUX 3VW9011-0AG01 4 CO digital 3VW9011-0AG02 2 CO standard + 2 CO digital 3VW9011-0AG03 External auxiliary switch ON/OFF AUX 15 CO standard 3VW9011-0AG05 15 CO digital 3VW9011-0AG06 Tripped signaling switch S24 1 CO standard 3VW9011-0AH14 3VW9011-0AH15 Spring charged signaling switch S21 1 CO standard 3VW9011-0AH10 1 CO digital 3VW9011-0AH08 Position signaling switches PSS 2 CO | 2 CO | 2 CO 3VW9011-0AH11 (only with draw-out versions) (connected | test | disconnected position) standard 2 CO | 2 CO | 2 CO ୭ ∡ 3VW9011-0AH12

(connected | test | disconnected position) digital

- **9** For molded case circuit breakers with stored energy operating mechanism

Auxiliary release, closing coil

3VA27 Auxiliary / signaling switches for toggle operating mechanisms · Auxiliary and signaling switches are each offered in two versions: Standard version for currents >100 mA and up to 400/250 V AC, Minimum load above 100 mA at 24 V DC Maximum breaking capacity 5 A at 250 V AC Digital version for currents <100 mA for PLC connections, minimum load above 1 mA at 5 V DC, and maximum breaking capacity of 100 mA at 24 V DC For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed-mounted breakers a 3VW9011-0BB5x side wall modification. Version Description Article No. Trip alarm switch TAS signals the trip position 1 CO standard - <u>Z</u> 3VW9727-0AB11 irrespective of the tripping reason 1 CO digital 3VW9727-0AB13 Tripped signaling switch via auxiliary release S25 signals 1 CO standard 3VW9727-0AB41 tripping operations via auxiliary releases (UVR, ST) in 1 CO digital 3VW9727-0AB43 UVR/ST2 pocket Leading auxiliary switch S26 (2 units) 1 NO standard, 250 V AC 3VW9727-0AA21 4 Fixation for external auxiliary switches AUX 15 CO • External auxiliary switches ON/OFF AUX 15 CO must be ordered separately. Article No. For fixed-mounted breakers with rear panel or floor mounting 3VW9011-0AG15 (in combination with Z option S56 or S57) For guide frames 9 ∡ 3VW9011-0AG17 Undervoltage releases UVR Version 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 9 ∡ 3VW9011-0AE17 415 ... 440 V AC ඉ <u>∡</u> 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. 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

- **9** For molded case circuit breakers with stored energy operating mechanism
- $\underline{\boldsymbol{\measuredangle}}$ For molded case circuit breakers with toggle operating mechanism

Interlocking

				3VA27
ocking devices	to prevent movement of the withdrawa	ble circuit breakers		
	Version			Article No.
	Ronis cylinder lock (replacement for R78) Padlock 8 mm (replacement for R65), for		9 <u>⊀</u> 9 <u>⊀</u>	3VW9011-0BA80 3VW9011-0BA87
ocking mechan	isms to prevent movement of the withd	rawable circuit breakers in disconnected p	osition	_
CKING INCCION	<u>·</u>	unction with R78 (3VW9011-0BA80) and/or R65		
	Description			Article No.
	Locking mechanism (replacement for R7	9)	9 🚣	3VW9011-0BA84
cking devices	in OFF position			
	 For fixed-mounted versions and withd To prevent unauthorized activation in The disconnector unit fulfills the cond 		ce acc. to EN 60204-1.	
	Description			Article No.
	Cylinder lock, made by Ronis (replaceme	nt for S08)	9 -	3VW9011-0BA33
rking devices	in OFF position			_
	For fixed-mounted versions and withd To prevent unauthorized activation in			
	Description	Version		Article No.
	Padlock 4 mm (replacement for S22)	Plastic for no more than 3 locks	9 –	3VW9011-0BA41
	Padlock 7 mm (replacement for S23)	Metal for no more than 1 lock	9 –	3VW9011-0BA42
	Padlock 8 mm (replacement for S07)	Metal for no more than 2 locks	9 –	3VW9011-0BA44
king devices	in OFF position for toggle operating me	• • • • • • • • • • • • • • • • • • • •		_
	<u> </u>	the case of molded case circuit breakers with ro	tary operator	
	Description For Pania		,	Article No.
	For Ronis		- ∡	3VW9727-0VL10
king devices	in OFF position for toggle operating me	chanisms without rotary operators		_
	To prevent unauthorized activation in molded case circuit breakers without it	· · · · · · · · · · · · · · · · · · ·		
	Description	otally operator		Article No.
A	For padlocks		- 🚄	3VW9727-0LB10
	For Ronis		- ≰	3VW9727-0LF10
dlockable prot	tective covers ON/OFF on the operator p			
	Description	Version		Article No.
	Padlock 4 mm (replacement for \$42)	Plastic for no more than 3 locks	9 -	3VW9011-0BA22
	Padlock 7 mm (replacement for S43)	Metal for no more than 1 lock	9 -	3VW9011-0BA23
	Padlock 8 mm (replacement for S44)	Metal for no more than 2 locks	9 –	3VW9011-0BA24

- **9** For molded case circuit breakers with stored energy operating mechanism
- ∡ For molded case circuit breakers with toggle operating mechanism

Interlocking

					3VA27
Protective covers	s for mechanical ON/OFF				
1 940	Mechanical ON/OFF tNot lockable.	o protect against unintentio	nal actuation on the operator panel.		
	Description				Article No.
	Not lockable (replaceme	ent for S41)		9 –	3VW9011-0BA21
Mutual mechani	cal interlocking				
E	 Mutual mechanical ir 	terlocking with Bowden cab	le 2 m		
	Fixing	Mounting			Article No.
是机	Fixed-mounted	Rear panel or floor mo	ounting	9 ∡	3VW9011-0BB21
	Withdrawable	Mounting onto guide	frame	9 🗹	3VW9011-0BB22
Bowden cables,	separate				
	 One required for each 	n circuit breaker			
	Variant				Article No.
	1000 mm				3VW9011-0BB23
	2000 mm				3WL9111-0BB45-0AA0
	3000 mm				3WL9111-0BB46-0AA0
Locking mechan	isms to prevent opening	of the control cabinet do	ors in ON position		
		of the control cabinet door in ts the circuit breaker from be	ON position eing closed when the control cabinet door	is open.	
D .	Fixing		Version		Article No.
	Fixed mounting on side	panel or floor	Direct fixed interlocking	<u> </u>	3VW9011-0BB10
	, and the second se		Locking with Bowden cable	9 👱	3VW9011-0BB16
4 /	Withdrawable		Direct fixed interlocking	9 ∡	3VW9011-0BB14
Ė			Locking with Bowden cable	9 <u>∡</u>	3VW9011-0BB18
Door sealing fran	mes IP30				
	For IP4x and higher, y	ou must order the protectiv	e cover IP54 3VW9011-0AP03 or 3VW901	1-0AP13.	
	Description	Fixing	Version		Article No.
	Replacement part	Fixed-mounted	IP3x	9 ∡	3VW9011-0AP01
	for Z option T30.	Withdrawable	IP3x	<u>9</u> –	3VW9011-0AP02
				- 📥	3VW9011-0AP04
Protective covers	s IP54				
	 For implementing de 	grees of protection IP4x and	unted breakers and withdrawable breaker IP54 when installing in switchboard door. e and door mounted rotary operator.		
	Description		Version		Article No.
•	Lock with unique key		IP54	9 <u>∡</u>	3VW9011-0AP03
	Lock with standard key		IP54	9 🚄	3VW9011-0AP13

- $\ensuremath{\mathfrak{G}}$ For molded case circuit breakers with stored energy operating mechanism
- ${\color{red} \angle}$ For molded case circuit breakers with toggle 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 will only be able to be ordered as a spare part from 10/2020, and will be removed from the order portfolio from 10/2025.

Documents available for downloading:

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

3VL molded case circuit breaker (109769073)

A

Conditions of sale and delivery

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By using this catalog you can acquire hardware and software products described therein from Siemens AG subject to these conditions of sale and delivery (hereinafter: CSD). Please note! The scope, the quality and the conditions for supplies and services, including software products, by any Siemens entity having a registered office outside Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. These CSD apply exclusively for orders placed with Siemens AG, Germany.

1.1 For customers with a seat or registered office in Germany

For customers with a seat or registered office in Germany, the following shall be subordinate to these CSD

- for installation, the "Standard Terms and Conditions for Installation Germany" and
- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services for Customers in Germany" ¹⁾ and
- for standalone software products and software products that are part of another product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or Registered Office in Germany" 1)
 and
- for other supplies and services, the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry" ¹⁾.
 - In the event that such other supplies and services include open-source software, the conditions of which override the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry" ¹⁾, the product will be supplied with a notice detailing the special conditions that apply for the relevant open-source software. This applies accordingly in the case of a reference to other third-party software components.

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- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services" ¹⁾ (only available in English) and
- for services, the "International Terms & Conditions for Services" 1) supplemented by the "Software Licensing Conditions" 1) and
- for the supply of other hardware and software the "International Terms & Conditions for Products" 1) supplemented by the "Software Licensing Conditions" 1).

1.3 For customers with framework agreements

To the extent that our products and services are covered by an existing framework agreement, the conditions there apply instead of this CSD.

2. Additional terms and conditions

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

Illustrations are not binding.

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

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¹⁾ You can download the text of the Siemens AG terms and conditions of trade at www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

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Catalog LV 10

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Catalogs and further information



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

PDF (E86060-K8280-A101-A10-7600) Print (E86060-K8280-A101-A6-7600)



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PDF/Print (E86060-K1814-A101-A6-7600)



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

PDF (E86060-K8280-E347-A3-7600)



ET D1 Switches and Socket Outlets DELTA

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IK PI Industrial Communication SIMATIC NET

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