

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

Comprehensively certified. Deployable worldwide.

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



Molded Case Circuit Breakers



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Quick selection guide		
	reakers and switch disconnectors for all applications	
Molded open sines it be	realiers and assited discount estars for all and lighting	

A multitude of additional information ...

Information + ordering



All the important things at a glance

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



Your product in detail

The Siemens Industry Online Support (SIOS) provides comprehensive information

www.siemens.com/lowvoltage/product-support

- **Quick Selection Guide**
 - 3VA molded case circuit breaker (109757591)
- Technical Basic Information
 - 3VA molded case circuit breakers (109766672)

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

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



Siemens YouTube channel

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



Everything you need for your order

Refer to the Industry Mall for an overview of your products

Molded case circuit breakers sie.ag/2mmLcAk

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

Order supports are available in Siemens Industry Online Support (SIOS) at

www.siemens.com/lowvoltage/product-support

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



Configurators

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

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

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

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



The fast track to the experts

Contact persons in your region

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

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

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... can be found in our online services

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SENTRON powerconfig

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

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Your product in detail

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

- · Operating instructions Characteristic curves
- Certificates

Comprehensive mobile support via the Siemens Industry Online Support app available for download from the **App Store and Play Store** You will find further information at

www.siemens.com/support-app

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

- Siemens Industry Mall www.siemens.com/lowvoltage/mall
- Image database www.siemens.com/lowvoltage/picturedb

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

Manuals

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

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

Face-to-face or online training

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

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



Technical overview - Molded case circuit breakers



The fast way to get you to our online services

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

Molded case circuit breakers and switch disconnectors for all applications



3VA10 ... 3VA15 molded case circuit breakers

Setting standards for standard applications

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

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

Special features

- Compact design
- AC/DC applications
- No derating up to +50 °C
- Optimized for distribution boards (45 mm cover size)
- Universal platform of accessories
- 1, 2, 3 or 4-pole versions
- Rated current range of 1 to 1000 A



3VA20 ... 3VA26 molded case circuit breakers

The power to deliver in demanding applications

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

Special features

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



3VA27 molded case circuit breaker

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

Special features

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

Molded case circuit breakers, switch disconnectors and accessories













Protective functions	3VA10	3VA11	3VA12	3VA13	3VA14	3VA15	
Size	100 A	160 A	250 A	400 A	630 A	1000 A	
Switch disconnectors							
No protection	-	-				-	
Thermal-magnetic							
Line protection	-	-					
Starter protection	-	-					
Electronic							
Line protection	-	-	-	-	-	-	
Line and generator protection	-	-	-	-	-	-	
Line and generator protection, with display	-	-	-	-	-	-	
Line and generator protection, with display, with measurement function	-	-	-	-	-	-	
Motor protection	-	-	-	-	-	-	
Motor protection, with display	-	-	-	-	-	-	
Motor protection, with display, with measurement 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 version	-	-				-	
Front mounted rotary operator		-	-				
Door mounted rotary operator		-					
Side wall mounted rotary operator		-	-	-		-	
MO310 motor operator (mounted onto the side)	-	-		-	-	-	
MO320 motor operator (mounted onto the front)	-	-				-	
Motor operator with SEO520 stored energy mechanism	-	-	-	-	-	-	
Motor operator (MO), integrable	-	-	-	-	-	-	
Locking, blocking and interlocking		-	_				
Residual current device (mounted onto the side)	-	-	-	-	-	-	
Residual current device (mounted underneath)	-	-		-	-	-	
Communications interface	-	-	-	-	-	-	
EFB300	-	-	-	-	-	-	
Testing and commissioning devices	-	-	-	-	-	-	
Cover frame		-	_				
DIN-rail adapter		-	-	-	-	-	
Busbar adapter						-	

■ Available — Not available/not present

















3VA20	3VA21	3VA22	3VA23	3VA24	3VA25	3VA26	3VA27
100 A	160 A	250 A	400 A	630 A	1000 A	1250 A	1600 A
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
•	•	-	•	•		•	•
•	•	-	•	•		•	•
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_	-	_				-	•
-	-	-				_	
-	-		•	•		-	

100 A	160 A	250 A	400 A	630 A	1000 A	1250 A	1600 A
•	-	•		•			
•	-			•	•		
•	•	•	•	•		•	•
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•		-		•			
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•					-	-	-

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

Technical specifications

				SPANNE						S D S		
				3VA10)		3VA11			3VA11	1	
Electrical characte	eristics according to IEC 60947-2											
Number of poles				3/4-pole			1-pole			2-pole		
Size		Α		100			160			160		
Rated current I _n at	50 °C ambient temperature	Α		16 100)		16 160)		16 160)	
Rated operational	voltage U _e 50/60 Hz AC	V		690			415			415		
Rated insulation vo	oltage U _i	V		800			500			500		
Rated impulse with	nstand voltage U_{imp}	kV		8			8			8		
Use in IT networks (breaking capacity	acc. to IEC 60947-2, Annex H)	V		•			•			-		
Frequency		Hz		0 400	_		0 400			0 400	_	
Breaking capacity			В	N	S	N	S	М	N	S	М	
	ort-circuit breaking capacity I _{cu}											
50/60 Hz AC	220 240 V	kA	25	36	55	25	36	55	36	55	85	
	380 415 V	kA	16	25	36	5	6	6	25	36	55	
	440 V	kA	8	16	25	-	-	-	-	-	_	
	500 V	kA	5	5	7	-	-	-	-	-	_	
	690 V	kA	5	5	7	-	-	-	-	-	-	
DC 1)	125 V	kA	16	25	30	16	25	30	16	25	30	
	250 V	kA	25	36	55	-	-	-	36	55	85	
	500 V	kA	25	36	55	-	-	-	-	-	-	
	600 V	kA	8	16	25	-	-	-	-	-	-	
	750 V	kA	-	-	-	-	-	-	-	-	-	
	1000 V ²⁾	kA	-	-	-	-	-	-	-	-	_	
Rated service sho	rt-circuit breaking capacity I _{cs}											
50/60 Hz AC	220 240 V	kA	25	36	55	25	35	55	36	55	85	
	380 415 V	kA	16	25	36	5	6	6	25	36	55	
	440 V	kA	8	16	25	-	-	-	-	-	_	
	500 V	kA	5	5	5	-	-	-	-	-	_	
	690 V	kA	5	5	5	-	-	-	-	-	-	
DC	125 V	kA	16	25	30	16	25	30	16	25	30	
	250 V	kA	25	36	55	-	-	-	36	55	85	
	500 V	kA	25	36	55	-	-	_	-	-	-	
	600 V	kA	8	16	25	-	-	-	-	-	-	
	750 V	kA	-	-	-	-	-	-	-	-	-	
	1000 V ²⁾	kA	-	-	-	-	-	-	-	-	-	
Dimensions												
- D -	A	mm	76.2 (3P) 101	.6 (4P)		25.4			50.8		
A - C - 85	В	mm		130			130			130		
B B B B B B B B B B B B B B B B B B B	С	mm		70			70			70		
LLJ Ľ	D	mm		88			88			88		

¹⁾ For detailed data on DC breaking capacity, number of switching poles and circuit diagrams, see FAQ www.siemens.com/lowvoltage/product-support (109779932)

²⁾ For $I_n = 630 \text{ A}/800 \text{ A}$ ³⁾ $I_n 125 \text{ A}, 160 \text{ A}: I_{cu}I_{cs} = 36 \text{ kA}/36 \text{ kA}$

[■] Available — Not available/not present











3VA11					3	3VA12	2		3V/	A13			3V <i>A</i>	A14			3VA15		
			pole			3/4-pole				pole				pole			3/4-pole		
			60			250				00				30			1000		
			. 160		1	60 25	0			400			500.				630 1000	0	
			90			690			69	90				90		690			
			00			800				00				00		800 8			
			8			8				8		8							
		1				•						•					≤500		
		0	400			0 400			0	400		0 400					0 400		
	N	S	М	Н	S	M	Н	S	М	Н	С	S	М	Н	С	М	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	70	110	
	16	25	36	55 ³⁾	25	36	36	36	55	70	110	36	55	70	110	55	70	110	
	7	7	10	10	10	15	15	25	36	55	70	25	36	55	70	36	55	70	
	7	7	10	10	7	10	10	7	7	10	10	7	7	10	10	25	35	35	
	16	25	30	30	55	85	100	8	16	25	25	8	16	25	25	-	-	-	
	36	55	85	100	55	85	100	8	16	25	25	8	16	25	25	35	50	100	
	36	55	85	100	55	85	100	8	16	25	25	8	16	25	25	35	50	100	
	16	25	36	55	25	36	55	8	16	25	25	8	16	25	25	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	50	100	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	35	50	
	36	55	85	100	55	85	100	55	85	100	200	55	85	100	200	85	100	150	
	25	36	55	70	36	55	70	36	55	70	110	36	55	70	110	55	70	85	
	16	25	36	403)	25	36	36	36	55	70	110	36	55	70	110	55	70	70	
	5	5	5	5	10	10	10	25	36	55	70	25	36	55	70	36	55	65	
	5	5	5	5	5	5	5	5	5	6	6	5	5	6	6	19	19	19	
	16	25	30	30	55	85	100	8	16	25	25	8	16	25	25	-	-	-	
	36	55	85	100	55	85	100	8	16	25	25	8	16	25	25	35	50	100	
	36	55	85	100	55	85	100	8	16	25	25	8	16	25	25	35	50	100	
	16	25	36	55	25	36	55	8	16	25	25	8	16	25	25	-	-	-	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	50	100	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	35	50	
	74	ID)	10F	(3P) 140) (AD)		138 (3P)	l 19 <i>/</i> 1 (//D)	138 (3P) 184 (4P)				21/	J (3D) I 200	(AP)			
	76.2 (3P) 101.6 (4P) 130				1031	158	(+1)			1 104 (4r 48	,			104 (4r 18	,	210 (3P) 280 (4P)			
				70				10				+8 10		320					
			70			88											120		
	88					88			1.	37			1:	37			253		

System overview, page 2/20

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

Application

			1			
			3VA10	3VA11	3VA11	
Electrical characteristics ac	cording to IEC 60947-2					
Number of poles			3/4-pole	1-pole	2-pole	
Size		A	100	160	160	
Rated current I _n at 50 °C amb	ient temperature	Α	16 100	16 160	16 160	
3VA1 molded case circuit b	reakers for line protection, standard	d applications (IEC 6	0947-2)			
Service life/endurance (ope	erating cycles)					
Mechanical (CLOSE-OPEN cyc	cles)		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 b	reakers for starter protection (stand	lards and specificat	ions acc. to IEC 60947-2, <i>i</i>	Annex O)		
Rated current I _n at 50 °C amb	ient temperature	А	-	-	-	
Service life/endurance (ope	erating cycles)					
Mechanical (CLOSE-OPEN cyc	cles)		-	-	-	
Electrical	380 415 V		-	-	-	
Trip units						
TM120M	AM		-	-	-	
Switch disconnectors (IEC 6	50947-3)					
Electrical characteristics ac	cording to IEC 60947-3					
Rated uninterrupted current	I _u at 50 °C ambient temperature	A	-	-	-	
Rated operational voltage $U_{\rm e}$	50/60 Hz AC	V	-	-	-	
Rated operational voltage $U_{\rm e}$	DC	V	-	-	-	
Rated conditional short-circu with upstream 3VA1 circuit b		kA	-	-	-	
Permissible rated short-time	current I _{cw} (1 s)	kA	-	-	-	

■ Available — Not available/not present



System overview, page 2/20

3VA2 molded case circuit breakers up to 1600 A

Technical specifications







				3V/	A20			3'	VA2	21			3	VA2	22		
Electrical characteristic	cs according to IEC 60947-2																
Number of poles				3/4-	pole			3	/4-pol	е			3	l/4-pol	le		
Size		А		10	00				160			250					
Rated current I _n at 50 °C	ambient temperature	А			25	5 16	50		160 250								
Rated operational voltage	ge <i>U_e</i> 50/60 Hz AC	V		69	90				690					690			
Rated insulation voltage	e U _i	V		80	00				800					800			
Rated impulse withstan	d voltage U_{imp}	kV		8	3				8					8			
Use in IT networks (breaking capacity acc.	to IEC 60947-2, Annex H)	V			•				•					•			
Frequency		Hz		50	160				50/60					50/60			
Breaking capacity (line	protection)		М	Н	С	L	М	н	С	L	E	М	н	С	L	E	
Rated ultimate short-c	ircuit breaking capacity I _{cu}																
50/60 Hz AC	220 240 V	kA	85	110	150	200	85	110	150	200	-	85	110	150	200	-	
	380 415 V	kA	55	85	110	150	55	85	110	150	200	55	85	110	150	200	
	440 V	kA	55	85	110	150	55	85	110	150	-	55	85	110	150	-	
	500 V	kA	36	55	85	100	36	55	85	100	-	36	55	85	100	-	
	690 V	kA	2	2	2	25	2.5	2.5	2.5	25	85	3	3	3	25	85	
DC	125 V (1 switching pole)	kA	-	-	-	-	-	-	-	-	-	_	-	-	-	-	
	250 V (2 switching poles)	kA	-	-	-	-	-	-	-	-	_	-	-	-	-	-	
	500 V (3 switching poles)	kA	-	-	-	-	-	-	-	-	_	-	-	-	-	-	
	600 V (4 switching poles)	kA	-	-	-	-	-	-	-	-	_	-	-	-	-	-	
Rated service short-cir	cuit breaking capacity I _{cs}																
50/60 Hz AC	220 240 V	kA	85	110	150	200	85	110	150	200	_	85	110	150	200	-	
	380 415 V	kA	55	85	110	150	55	85	110	150	200	55	85	110	150	200	
	440 V	kA	55	85	110	150	55	85	110	150	-	55	85	110	150	-	
	500 V	kA	36	55	85	100	36	55	85	100	-	36	55	85	100	-	
	690 V	kA	2	2	2	18	2.5	2.5	2.5	18	65	3	3	3	18	65	
DC	125 V (1 switching pole)	kA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	250 V (2 switching poles)	kA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	500 V (3 switching poles)	kA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	600 V (4 switching poles)	kA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dimensions																	
- D -	A	mm	10)5 (3P)	140 (4	1P)		105 (3	P) 14	10 (4P)		105 (3	P) 14	40 (4P)	
1159	В	mm		18	31				181					181			
8 B B S S S S S S S S S S S S S S S S S	С	mm		8	6				86					86			
	D mm			10	07		107				107						

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

[■] Available — Not available/not present











3VA23						3	VA2	4			3VA25			3VA26	Í		3VA27		
	3	3/4-pole	9			3	3/4-pole	9			3/4-pole			3/4-pole		_	3/4-pole	_	
		400					630				1000			1250			1600		
	25	50 40	00			40	00 63	30			630 1000)		1250		8	300 1600)	
		690					690				690			690			690		
		800					800				800			800			1000		
		8					8				8			8			8		
		•					•				≤500			≤500					
		50/60					50/60				50/60			50/60			50/60		
М	Н	С	L	Е	М	Н	С	L	Е	М	Н	С	М	Н	С	М	Н	С	
85	110	150	200	-	85	110	150	200	_	85	110	200	85	110	200	100	150	200	
55	85	110	150	200	55	85	110	150	200	55	85	110	55	85	110	55	85	110	
55	85	110	-	-	55	85	110	-	-	55	85	110	55	85	110	55	85	100	
36	55	85	-	-	36	55	85	-	-	36	55	85	36	55	85	36	55	85	
5	5	5	25	85	6	6	6	25	85	25	35	35	25	35	35	25	36	50	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
85	110	150	200	-	85	110	150	200	-	85	110	150	85	110	150	100	150	200	
55	85	110	150	200	55	85	110	150	200	55	85	85	55	85	85	55	85	110	
55	85	110	-	-	55	85	110	-	-	55	70	70	55	70	70	55	85	100	
36	55	65	-	_	36	55	85 ¹⁾	-	-	36	55	65	36	55	65	36	55	63	
 5	5	5	18	65	6	6	6	18	65	19	19	19	19	19	19	25	36	36	
-	-	_	_	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
_	-	-	_	-	-	-	-	-	_	-	_	-	-	_	-	-	-	-	
_	_	_	_	_	_	-	-	-		-	_	_	_	_			_	_	
_			_	_					_	_	_	_	_	_	_	_	_	_	
 138 (3P) 184 (4P)						138 (3	3P) 18	4 (4P)	_	210	(3P) 280	(4P)	210	(3P) 280	(4P)	210	(3P) 280 ((4P)	
248						.50 (2	248	(-11)		210	320	(11)	210	320	(11)	210	291	(11)	
110							110				120			120		m 183	nandle oper nechanism) (stored ene ting mecha	l ergy	
137					137					253			253			225			

3VA2 molded case circuit breakers up to 1600 A

Application







			3VA20	3VA21	3VA22
Electrical characteristic	s according to IEC 60947-2				
Number of poles	·		3/4-pole	3/4-pole	3/4-pole
Size		Α	100	160	250
Rated current I _n at 50 °C	ambient temperature	А	25 100	25 160	160 250
Service life/endurance	(operating cycles)				
Mechanical (OPEN-CLOS	E cycles)		25000	25000	25000
Electrical	380 415 V I _n		15000	14000	12000
	I _n /2		20000	20000	17000
	690 V		10500	9800	8400
Trip units					
ETU320	LI				•
ETU330	LIG				•
ETU340	ELISA LI		-		
ETU350	LSI				
ETU550/ETU850	LSI				
ETU560/ETU860	LSIG				
ETU650	LSI		-	-	-
ETU360	LSIG		-	-	-
ETU660	LSIG		-	-	-
3VA2 molded case circu	uit breakers for motor/starter prot	ection (IEC 6	0947-4-1 standards and spe	ecifications acc. to AC-1)	
Rated current I _n at 50 °C	ambient temperature	А	-	25 100	160 200
Service life/endurance	(operating cycles)				
Mechanical (CLOSE-OPE	N cycles)		-	25000	25000
Electrical	380 415 V		-	14000	12000
Trip units			_		
ETU310M	1		-	•	•
ETU350M	LSI		-	-	-
ETU550M	LSI		-	•	•
ETU860M	LSIG		-		•
ETU320	LI		-	-	-
ETU350	LSI		-	-	-
ETU360	LSIG		-	-	-
ETU650	LSIG		-	-	-
ETU660	LSIG		-	-	-











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

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 measurement function
	TM240 1,//A 1,//A 000 000 000 000 000 000 000 000 000	ETU350 LSI	ETU550M LSI A ESC DANZ A AZ OK DESC DANZ OK DESC DANZ	ETU860M LSIG A ESC D XLT V OK D A CT A B CT
	TM 2-series	ETU 3-series	ETU 5-series	ETU 8-series
Protective function				
Line protection	TM210, TM220, TM240	ETU320, ETU330, ETU340, ETU350	ETU550, ETU560	ETU850, ETU860
Starter protection	TM120M	ETU310M	-	-
Motor protection	-	ETU350M	ETU550M	ETU860M
Integrated functions				
Parameterizing	Setting and reading the parameters • Current values	Setting and reading the parameters • Current values • Delay times	Setting and reading the parameters • Via display and communication • Fine setting of the parameters • Reading the measured values	 Setting and reading the parameters Via display and communication Fine setting of the parameters Reading the measured values
Status display	-	Indicating the ETU status via LEDs	Indicating the ETU status via LEDs	Indicating the ETU status via LEDs
Interface	-	Interface for test devices	Interface for test devices	Interface for test devices
Measurement function	-	-	-	Measurement function integrated
Optional expansions				
24 V module	_	_	24 V module for continuous power supply (also without primary current through the molded case circuit breaker)	24 V module for continuous power supply (also without primary current through the molded case circuit breaker)
External function box	-	EFB300 external function box	EFB300 external function box for	EFB300 external function box for
Communications module	-	for connection to the ETU	connection to the ETU COM060 communications module	connection to the ETU COM060 communications module
Data concentrator	-	-	COM800/COM100 data concentrator with interface to PROFIBUS PROFINET Modbus RTU Ethernet (Modbus TCP)	COM800/COM100 data concentrator with interface to PROFIBUS PROFINET Modbus RTU Ethernet (Modbus TCP)
External display	-	-	DSP800 external display for installing in the cubicle door	DSP800 external display for installing in the cubicle door
Test device	_	TD300/TD400/TD500 test device	TD300/TD400/TD500 test device	TD300/TD400/TD500 test device

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

	TM120M AM	TM210 FTFM	TM220 ATFM	TM240 ATAM
Protection	AIVI	I II IVI	ATTIVI	ATAW
Starter protection	-	-	-	-
Line protection	-			•
Version available with				
1-pole and 2-pole breakers	-		-	-
3-pole breaker			•	•
4-pole breaker	_		•	•
Available protection parameters				
I _r adjustable	-	-	•	•
I _i adjustable		-	-	
I _r fixed	-	•	-	-
I _i fixed	-	•		-
I _N 1)	-	•	•	

 $^{^{1)}}$ 3VA10 only without N protection 3VA11, 3VA12, 3VA13, 3VA14 without, 50% or 100% N protection 50% N protection from $I_{\rm n}\! \ge\! 100$ A

Protective functions of the 3VA2 with electronic trip unit

	ETU310M		ETU330	ETU340		ETU350M				ETU850		ETU860M
	I	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	I ² t	I ² t	I²t	I ⁴ t	I²t	I ² t	I²t	I ² t	I²t	I ² t	I²t	I ² t
I _r	-											
t_r at 6 × I_r	-			-		-		-				-
t _c	-	-	-	-	-		-		-	-	-	
$t_{\scriptscriptstyle D}$	-	-	-	-	-	-	-		-	-	-	
Thermal memory												
Thermal memory can be switched on/off	-	-	-	-	-	-	•	-	•	•	•	-
l _{sd}	-	-	-	-								
$t_{\rm sd}$ at 8 × $I_{\rm r}$	-	-	-	-								
Characteristic in S range: I ² t _{sd}	-	-	-	-		-		-				-
Characteristic in S range: selectable <i>I</i> ² <i>t</i> _{sd} / <i>t</i> _{sd}	-	-	-	-	-	-	•	-	•	•	•	-
I _i												
I _N 1)	-					-		-				-
I _q	-	-		-	-	-	-	-		-		
$t_{\rm g}$ at 2 × $I_{\rm g}$	-	-		-	-	-	-	-		-		
Characteristic in G range: I ² t _g	-	-	-	-	-	-	-	-		-		
Characteristic in G range: selectable l^2t_q/t_q	-	-	-	-	-	-	-	-	•	-	•	•
Ground-fault alarm function	-	-	-	-	-	-	-	-		-		
Blocking protection	-	-	-	-	-	-	-	-	-	-	-	
ZSI in combination with an EFB external function box	-	•	•	•	•	•	•	•	•	•	•	•

 $^{^{1)}\,}$ Available in a version with external current transformer for N conductor or 4-pole breaker

Available for:
- Circuit breakers with ETU (4-pole)

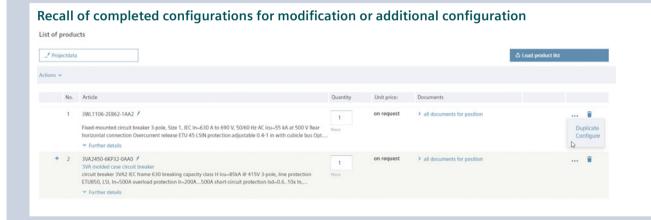
⁻ Circuit breakers with ETU5/ETU8 3-pole with external neutral conductor transformer or 4-pole

Online configurator highlights

www.siemens.com/lowvoltage/configurators



Product list stores multiple configurations and can transfer them collectively to the shopping cart List of products Projectidata Actions No. Article 1 3WL1106-2EB62-1AA2 / Fixed-mounted circuit breaker 3-pole, Size 1, IEC In-630 A to 690 V, 50/60 Hz AC Icu-55 kA at 500 V Rear horizontal connection Overcurrent release ETU 45 LSIN protection adjustable 0.4-1 in with cubicle bus Opt... Further details + 2 3WA250-6KP32-0AA0 / 3VA modead case circuit breaker 3VA2 IEC frame 630 breaking capacity class H Icu-85kA @ 415V 3-pole, line protection ETU850, LS, In-500A overload protection Ir-200A...500A short-circuit protection 8id-0.6.10x In,... Further details

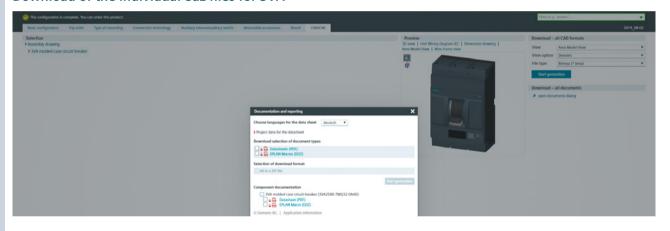




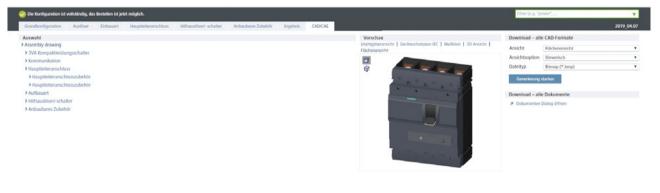
www.siemens.com/lowvoltage/3va-configurator and www.siemens.com/lowvoltage/3va27-configurator

Visualization of the internally mountable accessories (slot assignment) The configuration to complete. You can other this product. Bisk configuration to complete. You can other this product. Bisk configuration to complete. You can other this product. Bisk configuration to complete. You can other this product. Assembly option Figuration Trig units Sport floorating Connection technology Auditory relevanted assignment Auditory switch/datum waitch (changeover contacts - Form C) Auditory switch/datum waitch (changeover contacts - Form C) Auditory switch/datum waitch (changeover contacts - Form C) Auditory switch/goe IP Internation of the internally mountable or electronic circuits Auditory switch/datum waitch (changeover contacts - Form C) Auditory switch/goe IP Auditory switch/goe IP Internation of the internally mountable for electronic circuits Auditory switch/goe IP Internation of the complete. Auditory switch/goe IP Internation of th

Download of the individual edz files for 3VA



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



System overview

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

Molded case circuit breakers and switch disconnectors





3VA1 for standard applications

3VA2 for selective applications

Trip units







Electronic trip unit (ETU) with display, and optionally with measure-

Trip unit accessories



24 V module





External

display



Test device

Thermal-magnetic trip unit (TMTU)

Electronic trip unit (ETU)

ment function

Type of mounting





ಡೆಡೆಡೆ

Fixed-mounted

ಠಠಠ complete kit

Supplementary accessories

tions module concentrator



Auxiliary

connector

circuit



Door





signaling

switch



Cylinder lock

adapter



Crank

Withdrawable unit,

Plug-in unit, complete kit

Main conductor connection



connectors





connectors

broadened



conductor

terminals





Nut keeper kits, right-angled

Connection accessories

feedthrough



Insulation accessories

Note:

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

terminals

Auxiliary releases/auxiliary switches



Mountable accessories



Additional circuit breaker accessories



Mechanical interlocking mechanisms



Note:

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

Structure of the article numbers

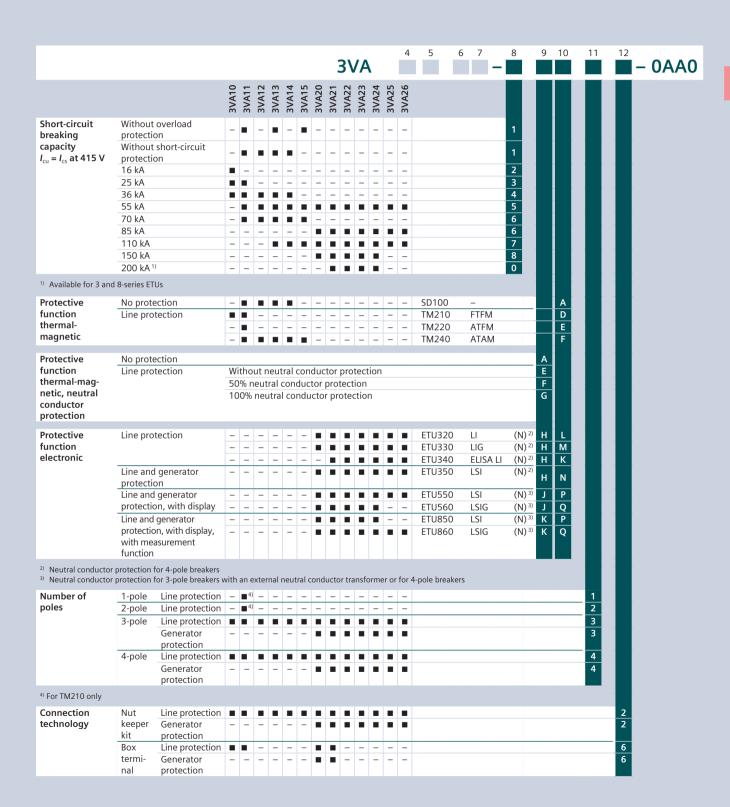
Basic configuration for line and generator protection

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

3															_									
												3	V	Α	4	5	6	7	8	3	9 1	0	11	1.
Trip units	Thermal-magn	etic													1 2									
	Electronic														_			l						
			3VA10	3VA11	3VA12	3VA13	3VA14	3VA15	3VA20	3VA21	3VA22	3VA23	3VA24	3VA25	3VA26			ı						
			.≥	>	>	>	>	≥ ≤		>	≥	>		>	Š			ı						
Size (SZ)	100 A				_	_					_		_	_	_	0		ł						
31Ze (3Z)				-			-	-	•	E	+	-	-	+				l						
	160 A		-	-	Ε	-	-	-	-	-	-	+-	-	-	-	<u> </u>		l						
	250 A 400 A		-	-		_	-	-	-	-	-	-	-	-	-	2		ł						
	630 A		-	-	Ē	-		-	H	=	+-	Ē	Ī	+=	-	1		ł						
	1000 A		-	-		_	-	•	H	-	-	_	-			1 2 3 4 5		ı						
	1250 A		-	-	-	_	-	-		-	-	_	-	-	•	6		ı						
/lax. rated	Line	16 A			-	-	-	-	-	-	-		-	-	-		9	6						
current I _{n max}	protection	20 A			-	-	-	-	-	-	-	-	-	-	-		2	6 0 5 2 0						
		25 A			-	-	-	-			-	-	-	-	-			5						
		32 A			-	-	-	-	-	-	-	-	-	-	-		3	2						
		40 A	•		-	-	-	-			-	<u> </u>	-	-	-		4							
		50 A			-	-	-	-	-	-	-	-	-	-	-		5	0 3 0 0 2 6						
		63 A			-	-	-	-			-	_	-	-	-		6 8	3						
		80 A			-	-	-	-	-	-	-	_	-	-	-			0						
		100 A		•	-	-	-	-	-		-	-	-	-	-		1	0						
		125 A	-	-	-	-	-	-	-	-	-	-	-	-	-		1	2						
		160 A	-	-	•		-	-	-	■ ,) =	-	-	-	-		1	6						
		200 A	-	-		-	-	-	-	-	_	-	-	-	-		2							
		250 A	-	-	-	-	-	-	-	-	-	' =	-	-	-		2	15						
		320 A	-	-	-		-	-	-	-	-	-1	\ \ \	-	-		3	5 2 0						
		400 A	-	-	-	-	_	-	-	-	+-) = 2	, –	-		4	10						
		500 A	-	-	-	-		_	-	-	-	_		_	-		5	0						
		630 A	-	-	-	-	-	-	-	-	-	_	-	-	-		6	3						
		800 A	-	-	-	-	-	-	-	-	-	_	-	-	-		8	0						
		1000 A 1250 A	-	-	-	-	-	•	-	-	-	-	-	_	-		1	1 3						
	Generator	25 A	-	-	-	-	-	-	_	_	-	_	-	-	_		2	4						
	protection	40 A	-	-	-	-	-	-			-	+=	-	-	_		4	2 5 0 3 0 6						
	protection	63 A	-	-	-	-	-	Ē			Η	+-	-	-	_		6	3						
		100 A	-	_	-	Ξ	-	-			-	+=	Е	+=			1	0						
		160 A	-	-	-	-	-	-	_			+-	Ε.		_		1	6_						
		250 A	-	-	-	-	-	-	-	-			-	-	_		2	5_						
		400 A	-	-	_	-	-	-	-	-	-		= 2		-			0						
		500 A	-	-	-	-	-	_	-	-	-	1-	Ε.) _	-		4 5	0						
		630 A	-	-	-	-	-	-	-	-	-	-	-		-		6	3						
		800 A	-	-	-	-	-	-	-	-	-	-	-		-		8	0 3 0 0 2						
		1000 A	-	-	-	-	-	-	-	-	-	-	-		-		1	0						
		1250 A	-	-	-	-	-	-	-	-	-	-	-	-			1	2						
	Switch	63 A	-		-	-	-	-	-	-	-	-	-	-	-		6	3						
	disconnector	100 A	-		-	-	-	-	-	-	-	-	-	-	-		1	0						
		125 A	-		-	-	-	-	-	-	-	-	-	-	-		1	2						
		160 A	-		-	-	-	-	-	-	-	-	-	-	-		1	6						
		250 A	-	_		-	_	_	-	-	-	-	-	-	-		2	5						
		400 A	-	-	-		_	_	-	-	-	-	-	-	-		4	0						
		500 A	-	-	-	-		-	-	-	-	-	-	-	-		5	0						
		630 A	_	-	-	_		_	_	-	-	+-	-	-	-		6	3						
1) Pated current not	available with ETH2						-												L					

¹⁾ Rated current not available with ETU340 ELISA LI

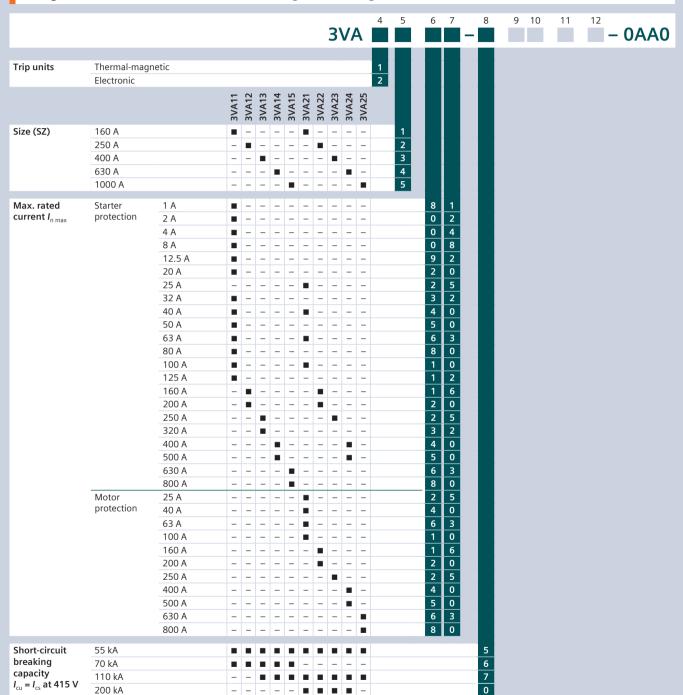
²⁾ With ETU 5-series and 8-series, utilization category B and ETU340 ELISA LI only

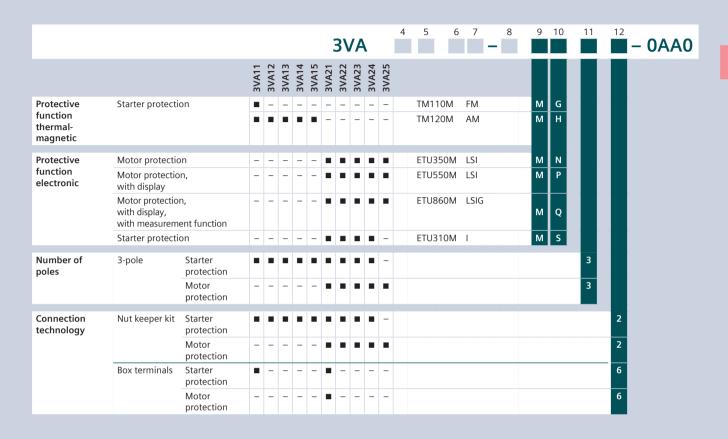


Structure of the article numbers

Basic configuration for starter and motor protection

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





Internal accessories

Auxiliary switches and alarm switches

										3VA20 3VA21 3VA22
								3VA12 3VA13		3VA23 3VA24 3VA25
						3VA10	3VA11	3VA14	3VA15	3VA26
Auxiliary										
	the • The	molded ca contacts o	se circu of the a	sition of the ma uit breaker uxiliary switch a ose in unison						
m.	Туре	Width	I _e	U _e AC/DC	Version					
	HQ	7 mm (1 slot)	6 A <1 A	240 V/250 V 24 V/24 V	Standard Electronic- compatible			3VA9988-0AA12 3VA9988-0AA13		
	HP	14 mm (2 slots)	10 A	600 V/250 V	Standard	-		3VA998	8-0AA11	
Leading c	hangeov	er switche	es LCS							
	• Sign	nal the ope	ning of	ng, for example the main containce of molded						
m.	Туре	Width	I _e	U _e AC/DC	Version					
-30	HQ	7 mm	6 A	240 V/250 V	Standard	-			8-0AA22	
		(1 slot)		24 V/24 V	Electronic- compatible	-			8-0AA23	
N/	HP	14 mm (2 slots)	10 A	600 V/250 V	Standard	-		3VA998	8-0AA21	
Trip alarm										
	 Are 	actuated v	vhenev	eaker tripping o er the molded o ne TRIP position	ase circuit					
<u> </u>	Туре	Width	I _e	U _e 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	-		3VA998	8-0AB11	
Short circ										
m.	initi • The ack	ated by a s tripping o nowledger	short cir peratio nent of	tions only if they rcuit n must be reset the fault before an be switched	by deliberate the molded					
	Туре	Width	I _e	U _e AC/DC	Version					
4	HQ	7 mm	6 A	240 V/250 V	Standard	3VA9988-0AB32	3VA9988-0AB32	3VA9988-0AB34	-	-
		(1 slot)	<1 A	24 V/24 V	Electronic- compatible	3VA9988-0AB33	3VA9988-0AB33	3VA9988-0AB35	-	-
Electrical										
	mo	ded case c	ircuit b	as the main cor reaker open in t by the ETU						
	Туре	Width	I _e	U _e AC/DC	Version					
	HQ	7 mm	6 A	240 V/250 V	Standard	-	-	-	-	3VA9988-0AB22
		(1 slot)	<1 A	24 V/24 V	Electronic- compatible	-	-	-	-	3VA9988-0AB23

Auxiliary releases

				3VA10		
				3VA11	3VA20	
				3VA12	3VA21	
				3VA13	3VA22	
				3VA14	3VA23	3VA25
				3VA15	3VA24	3VA26
Shunt trips left ST				SVAIS	JVA24	3 VA20
Situit trips left 5		to controlled tripping of	the molded case sirsuit breaker			
		rly low power consumpti	the molded case circuit breaker			
		able for electrical interloc				
A STATE OF THE STA	Version	U _e 50/60 Hz AC	U _e DC	_	_	_
	Standard	-	12 V		3VA9988-0BL10	
and the last	Staridard	24 V	24 30 V		3VA9988-0BL30	
ar L		48 60 V	48 60 V		3VA9988-0BL30	
		110 127 V	110 127 V		3VA9988-0BL31	
		208 277 V	220 250 V		3VA9988-0BL32	
		380 600 V	220 230 V		3VA9988-0BL20	
	Floatrical (FI)	360 000 V			3VA9988-0BM10	
Shunt trips flexib	Electrical (EI)	_	Z4 V		3VA9900-00IVITO	
Shalle anps hexib		te-controlled tripping of	the molded case circuit breaker			
	Flexible install		the molueu case circuit breaker			
A STATE OF THE STA	U ₂ 50/60 Hz AC	U _a DC				
	24 V	- DC		_	3VA9988-0BA20	_
	48 60 V	_		_	3VA9988-0BA21	_
22	110 127 V	_		_	3VA9988-0BA21	
	208 277 V				3VA9988-0BA22	
	380 500 V	_			3VA9988-0BA23	
	600 V	_			3VA9988-0BA25	
Universal release		_		_	3VA9900-UDA23	_
Offiversal release		of shunt trip and underv	oltago roloaco			
STATE OF THE PARTY.	U _a 50/60 Hz AC	U _a DC	ortage release	_	_	
ALL:	U _e 50/60 H2 AC	12 V			3VA9908-0BD11	
-	_	24 V				
		48 V			3VA9908-0BD12 3VA9908-0BD13	
Undervoltage rel	nasos LIVP	40 V			3VA9900-06D13	
Officer voltage fer		ed case circuit breaker in	the event that the rated			
			uit drops below a minimum			
120,000		nit or fails altogether	are arops below a minimum			
22 8	U _o 50/60 Hz AC	U, DC				
	-	12 V			3VA9908-0BB10	
		24 V			3VA9908-0BB11	
		48 V			3VA9908-0BB12	
		60 V			3VA9908-0BB13	
		125 127 V			3VA9908-0BB14	
		220 230 V			3VA9908-0BB15	
		250 V			3VA9908-0BB16	
	24 V	_			3VA9908-0BB20	
	48 V	_			3VA9908-0BB21	
	60 V	_			3VA9908-0BB22	
	110 V	_			3VA9908-0BB23	
	120 127 V	_			3VA9908-0BB24	
	208 230 V	_			3VA9908-0BB25	
	380 400 V	_			3VA9908-0BB26	
	440 480 V				3VA9908-0BB27	
Time-delay device	es for undervoltage				3VA3300-00027	
Time delay device	U _e 50/60 Hz AC	U _c DC				
esser!	110 V	110 V			3VA9988-0BF21	
	230 V	230 V			3VA9988-0BF22	
00000	230 V	24 V			3VA9988-0BF23	
	_	24 V			JVMJJ00-UDFZJ	

 $^{^{\}scriptsize 1)}$ In combination with TAS and AUX. For circuit diagrams, see the operating instructions

Manual operators

							3VA13	
						3VA20	3VA14	3VA15
				3VA10		3VA21	3VA23	3VA25
				3VA11	3VA12	3VA22	3VA24	3VA26
Front mounte	d rotary operators							
	 Handle For IEC Degree of prote For 3-pole and 4							
	Version	Illumination kit	Door interlock					
1	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-OFF	Without	Without	3VA9157-0EK15	3VA9257-0EK15	3VA9267-0EK15	3VA9467-0EK15	3VA9687-0EK15
	(red/yellow)		With	3VA9157-0EK25	3VA9257-0EK25	3VA9267-0EK25	3VA9467-0EK25	3VA9687-0EK25
<u> </u>		With	Without	3VA9157-0EK17	3VA9257-0EK17	3VA9267-0EK17	3VA9467-0EK17	-
			With	3VA9157-0EK27	3VA9257-0EK27	3VA9267-0EK27	3VA9467-0EK27	-
Door mounted	d rotary operators	with tolerance o	compensation					
	With mountingHandle with ma	sking plate 75 × for 3VA15/3VA2 ction IP65	ensation 75 mm					
	Version	Illumination kit	Door interlock					
(4.00	Standard (gray)	Without	With	3VA9157-0FK21	3VA9257-0FK21	3VA9267-0FK21	3VA9467-0FK21	3VA9687-0FK21
		With	With	3VA9157-0FK23	3VA9257-0FK23	3VA9267-0FK23	3VA9467-0FK23	3VA9687-0FK23
//	EMERGENCY-OFF	Without	With	3VA9157-0FK25	3VA9257-0FK25	3VA9267-0FK25	3VA9467-0FK25	3VA9687-0FK25
	(red/yellow)	With	With	3VA9157-0FK27	3VA9257-0FK27	3VA9267-0FK27	3VA9467-0FK27	3VA9687-0FK27
Door mounted	d rotary operators v	without toleran	ce compensatio	on				
	Shaft 300 mm (325 mm for 3VHandle with ma	'A15/3VA25/3VA sking plate 75 × for 3VA15/3VA2 ction IP65	26) 75 mm					
	Version	Illumination kit	Door interlock					
	Standard (gray)	Without	With	3VA9157-0FK61	3VA9257-0FK61	3VA9267-0FK61	3VA9467-0FK61	3VA9687-0FK61
Door mounted	d rotary operators	without handle						
	For IECDegree of proteFor 3-pole and 4	1-pole breakers						
	Version	Illumination kit	Door interlock					
	With shaft stub (gray)	-	Without	3VA9157-0GK00	3VA9257-0GK00	3VA9267-0GK00	3VA9467-0GK00	3VA9687-0GK00

							3VA13	
						3VA20	3VA14	3VA15
				3VA10		3VA21	3VA23	3VA25
				3VA11	3VA12	3VA22	3VA24	3VA26
Side wall mou	inted rotary operat	ors						
1 8	 Rotary operator Handle with ma Degree of prote For 3-pole and 4 	sking plate 75 × ction IP65						
	Version	Mounting bracket	Illumination kit					
	Standard	Without	Without	3VA9157-0PK11	3VA9257-0PK11	3VA9267-0PK11	3VA9467-0PK11	-
	(gray)		With	3VA9157-0PK13	3VA9257-0PK13	3VA9267-0PK13	3VA9467-0PK13	-
	EMERGENCY-OFF	Without	Without	3VA9157-0PK15	3VA9257-0PK15	3VA9267-0PK15	3VA9467-0PK15	-
	(red/yellow)		With	3VA9157-0PK17	3VA9257-0PK17	3VA9267-0PK17	3VA9467-0PK17	-
Side wall mou	ınted rotary operat	ors with mount	ing bracket					
	 Rotary operator bracket for mou Handle with ma Degree of prote For 3-pole and 4 	Inting directly or sking plate 75 × ction IP65	the side wall					
Version Mour	Mounting bracket	Illumination kit						
	Standard	With	Without	3VA9157-0PK51	3VA9257-0PK51	3VA9267-0PK51	-	-
	(gray)		With	3VA9157-0PK53	3VA9257-0PK53	3VA9267-0PK53	-	-
	EMERGENCY-OFF	With	Without	3VA9157-0PK55	3VA9257-0PK55	3VA9267-0PK55	-	-
	(red/yellow)		With	3VA9157-0PK57	3VA9257-0PK57	3VA9267-0PK57	-	-
xtended DIN	rail for N/PE termin	nals						
•	Version	Rated current						
	For mounting bracket	≤250 A		3VA9987-0GL30	3VA9987-0GL30	3VA9987-0GL30	-	-
Auxiliary swit	ch modules for rota	ary operator						
	Version							
6.20	2× leading to "ON"			3VA9257-0GX10	3VA9257-0GX10	3VA9467-0GX10	3VA9467-0GX10	-
60	2× leading to "ON" 1× leading to "OFF			-	-	3VA9467-0GX20	3VA9467-0GX20	-
Mounting ada	pters for side wall	mounted rotar	y operators					
-	Version							
	Necessary accessor rotary operators, if modules are used			3VA9257-0GX01	3VA9257-0GX01	3VA9467-0GX01	-	-

System overview, page 2/20

Manual operators

						3VA13	
					3VA20	3VA14	3VA15
			3VA10		3VA21	3VA23	3VA25
			3VA11	3VA12	3VA22	3VA24	3VA26
Supplementa	ry handles for door	mounted rotary operators					
	For operation when the second se	hen control cabinet door is open					
	Version						
	Standard (gray)		3VA9287-0GC01	3VA9287-0GC01	3VA9487-0GC01	3VA9487-0GC11	3VA9687-0GC01
	EMERGENCY-OFF (red/yellow)		3VA9287-0GC05	3VA9287-0GC05	3VA9487-0GC05	3VA9487-0GC15	3VA9687-0GC05
Handles							
100	With masking p						
	Version	Tolerance compensation					
	Standard	With		8UD1721-0AB21		8UD1731-0AB21	8UD1741-0AB21
	(gray)	Without		8UD1721-0AB11		8UD1731-0AB11	8UD1741-0AB11
	EMERGENCY-OFF	With		8UD1721-0AB25		8UD1731-0AB25	8UD1741-0AB25
	(red/yellow)	Without		8UD1721-0AB15		8UD1731-0AB15	8UD1741-0AB15
Handle lever	extensions						
		le lever extension is already scope of supply of the					
			_			27/10/107 00010	21440007.05540
Cl. C			-	-	-	3VA9487-0SC10	3VA9987-0SC10
Shafts	-						
	Туре	Length		0110100	214/4.00		
	8 × 8 mm	300 mm			0-2WA00		_
		600 mm		8UD190	0-2WB00		-
4	12 × 12 mm	300 mm	-	-	-	-	8UD1900-4WA00
		600 mm	-	-	-	-	8UD1900-4WB00
Adapters for s							
	Туре	Use					
	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 coupling	js						
	Туре						
	8 × 8 mm			8UD190	0-2HA00		-
	12 × 12 mm		-	-	-	-	8UD1900-4HA00

					3VA13	
				3VA20	3VA14	3VA15
		3VA10		3VA21	3VA23	3VA25
		3VA11	3VA12	3VA22	3VA24	3VA26
Mounting tole	erance compensations					
	Туре					
	8 × 8 mm		8UD190	0-2GA00		-
	12 × 12 mm	-	-	-	-	8UD1900-4GA00
Fixing bracket	ts for shafts					
44.						
		3VA928	7-0GA80	3VA948	7-0GA80	3VA9687-0GA80
Variable deptl	h adapters					
	Size					
	8 × 8 mm		3VA948	7-0GB10		-

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Manual operators

						3VA20	
						3VA21	
			3VA10			3VA22	
			3VA11	3VA13		3VA23	3VA25
			3VA12	3VA14	3VA15	3VA24	3VA26
Labeling plate	es for manual operators						
	·						
					3VA9087-0SX10		
Illumination	kits for manual operators						
Illullillation k	24 V DC voltage						
	Version	Rated current	_				
(*	Front mounted rotary operator	100 250 A	8UD1900-0KA10	_	_		_
\prec	Tront mounted rotary operator	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						0021700 010150
Cylinder locks	(type Kaba), standard masking						
O DE COM	Use	Key					
	For door mounted rotary	1	8UD1900-0MB01		-	8UD1900-0MB01	-
	operator and side wall mounted rotary operator	2		8UD1900-0NB01	-	8UD1900-0NB01	-
	(in the masking plate), only for	3	8UD1900-0PB01		-	8UD1900-0PB01	-
	locking, not for interlocking	4	8UD1900-0QB01	8UD1900-0QB01	-	8UD1900-0QB01	-
Cylinder locks	(type Kaba), EMERGENCY-OFF						
The state of the s	Use	Key					
	For door mounted rotary	1	8UD1900-0MB05		-	8UD1900-0MB05	-
	operator and side wall mounted rotary operator	2	8UD1900-0NB05		-	8UD1900-0NB05	-
	(in the masking plate), only for	3		8UD1900-0PB05	-	8UD1900-0PB05	-
	locking, not for interlocking	4	8UD1900-0QB05	8UD1900-0QB05	-	8UD1900-0QB05	-
Cylinder locks							
	Includes a lock with 2 keys						
	For locking or interlockingFor installation on the circuit	breaker side in all					
0 1	rotary operators						
	For mounting in the adapter I	kit for the					
	accessories compartmentNote: The cylinder lock adapt	er for rotary					
	operators is also needed for lo						
	interlocking circuit breakers v	ia rotary					
	operators						
	Key				2) // 0000 00 // 40		
	1				3VA9980-0VL10		
	4				3VA9980-0VL30 3VA9980-0VL40		
Cylinder lock	adapters for rotary operators				3VA9980-0VL40		
Cyllider lock	To mount the cylinder lock in	the rotary					
	operator (also possible with d						
II II A DO	rotary operator and side wall						
	operator), on circuit breaker s	side, NOT in					
	masking plate Rated current	_					
	100 630 A		3VA9980-0LF20	3VA9980-0LF20		3VA9980-0LF20	
	1000 A				3VA9680-0LF20		3VA9680-0LF20
	1000 A		_	_	3 VA 3000-0LI 20		34A3000-0LI 20

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Motor operators

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

Side mounted motor operators without stored energy mechanisms (MO310)



Cover size 45 mm

Addressable via control signals accordance with IEC/EN 60947-1

Addressable via control signals accordance with IEC/EN 60947-1

Addressable via accordance with For 3VA1

Addressable via accordance with For 3VA2

Break time, typically

For 3VA2

For 3VA1

For 3VA2

Addressable via accordance with For 3VA2

Addressable via accorda

Motor operators without stored energy mechanisms (MO320)



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

Spare parts kit for MO320

Scope of supply

Mounting plate, plug

Motor operators with stored energy mechanisms (SEO520)

- Synchronizable motor operator with optional communications interface
- Up to 3VA22 (250 A), it has two spring assemblies that are used to switch the 3VA2 molded case circuit breaker on and off quickly. This new
 principle in the MCCB area ensures fast, reliable and easily controllable switching sequences, especially in load transfer switching applications.
- The connection with the COM060 communications module, via a plug-in connection, integrates the SEO520 into the communication
 environment of the 3VA molded case circuit breakers and ensures that the molded case circuit breaker can also be switched via the
 supported communication networks and the SENTRON powerconfig and SENTRON powermanager software packages.
- Note: On account of the fast switching times, the SEO520 cannot be used with a leading changeover switch LCS.



Addressable via control signals	Isolating features in accordance with IEC/EN 60947-1	Make time, typ For 3VA1	pically For 3VA2	Break time, typ For 3VA1	pically For 3VA2	Rated operational power
•	•	<80 ms (400 A, 630 A)	<80 ms (100 A 630 A)	<5 s (400 A, 630 A)	<80 ms (100 A 250 A) <5 s (400 A, 630 A)	300 W, max. 500 W (60 ms)

Spare parts kit for SEO520

Scope of supply

Mounting plate, plug

Spare parts kit for SEO520 with communication

Scope of supply

Mounting plate, plug, SLC adapter

Mechanical operating cycles counters (for installation in the SEO520)



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)



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

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

		3VA10	3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14	3VA23 3VA24
Rated control supply voltage	With communication						
42 60 V AC, 24 60 V DC 110 230 V AC, 110 250 V DC	-	-	3VA9117-0HB10	-	-	-	-
		-	3VA9117-0HB20	-	-	-	-
Rated control supply voltage	With communication						
24 60 V DC	-	-	3VA9157-0HA10	3VA9257-0HA10	3VA9267-0HA10	3VA9467-0HA10	3VA9467-0HA10
110 230 V AC 110 250 V DC		-	3VA9157-0HA20	3VA9257-0HA20	3VA9267-0HA20	3VA9467-0HA20	3VA9467-0HA20
		-	3VA9157-0HA00	3VA9257-0HA00	3VA9267-0HA00	3VA9467-0HA00	3VA9467-0HA00
Rated control supply voltage	With communication						
24 V DC	-	-	-	-	3VA9267-0HC10	3VA9467-0HC10 ¹⁾ new 3VA9467-0HC20 ¹⁾ new 3VA9467-0HC30 ¹⁾ new	
42 60 V AC/D		-	-	-	3VA9267-0HC20		
110 230 V AC 110 250 V DC		-	-	-	3VA9267-0HC30		
24 V DC	Yes	-	-	-	3VA9267-0HC15	-	3VA9467-0HC15 1) new
110 230 V AC 110 250 V DC		-	-	-	3VA9267-0HC35	-	3VA9467-0HC35 ¹⁾ new
				_	3VA9267-0HC00	_	
_						_	_
		-	-		3476207 011600		
					3VA9267-0HC05		

¹⁾ For 3VA13 and 3VA14 (IEC) with product version < *E04* and for 3VA23 and 3VA24 (IEC) with product version < *E06*, the service life (mechanical operating cycles) of the molded case circuit breaker is reduced when the SE0520 is used. For newer product versions, this is not the case. We recommend upgrading the circuit breaker to a higher product version, if necessary.



Reset mode

All motor operators have the following reset modes:

Reset mode 1: Automatic reset Reset mode 2: Reset via OFF-signal

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

Connection technology



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

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

Box terminals							
	Conne	ection options	Scope of supply	Cable cross-section, copper stranded			
無無無	1	2	3 single terminals	1.5 70 mm²			
व का का				6 120 mm²			
				25 185 mm²			
				50 185 mm²			
				35 300 mm²			
海海海海	1	2	4 single terminals	1.5 70 mm²			
7 (a) (a) (a)				6 120 mm²			
				25 185 mm²			
				50 185 mm²			
				35 300 mm²			
Nut keeper kits							
	Conne	ection options	Scope of supply	Max. tap width	Max. tap th	ickness	
	1	2	3 terminals	17 mm	6.5 mm		
0.0.0				25 mm	8 mm		
				35 mm	10 mm		
			Nut keeper kit for 3-pole breakers, 1 terminal cover	50 mm	25 mm		
	1	2	4 terminals	17 mm	6.5 mm		
0.0.0.01				25 mm	8 mm		
				35 mm	10 mm		
			Nut keeper kit for 4-pole breakers, 1 terminal cover	50 mm	28 mm		
Circular conductor	termina	ls, 1 cable					
	Conne	ection options	Scope of supply	Cable cross-section	Copper/alur Cu	minum stranded Al	
444	1	2	3 single terminals	1.5 10 mm²		-	
ଗ ଗ ଗ				1.5 50 mm²		-	
				10 95 mm²			
				16 185 mm²		4)	
				35 185 mm²			
				50 300 mm²		3)	
# # # # # # # # # # # # # # # # # # #	1	2	4 single terminals	1.5 10 mm²		-	
ଗ ଗ ଗ ଗ				1.5 50 mm²		-	
				10 95 mm²			
				16 185 mm²		4)	
				35 185 mm²			
				50 300 mm²		3)	

¹⁾ Maximum current-carrying capacity of cable connection 400 A Flexible copper bar: No restrictions

²⁾ Maximum current-carrying capacity of cable connection 400 A
3) Al cable only tested according to UL486 A/B

⁴⁾ Use antioxidants

				3VA13	
				3VA14	
3VA10		3VA20		3VA23	3VA15
3VA11	3VA12	3VA21	3VA22	3VA24	3VA25
3VA9153-0JA11	-	_	_	_	_
-	3VA9253-0JA11	3VA9163-0JA12	3VA9163-0JA12		
	- -	3VA9263-0JA12	3VA9263-0JA12	_	
	3VA9253-0JA12	- SVA9203-03A12	- -		
	- JVKJ2JJ-0JK12	_	_	3VA9483-0JA13 ¹⁾	
3VA9154-0JA11				3VA9463-0JA13	
- JVA9134-0JA11				_	
	3VA9254-0JA11 –	3VA9164-0JA12	3VA9164-0JA12	_	_
-	- 3VA9254-0JA12	3VA9264-0JA12 _	3VA9264-0JA12 _	_	_
	3VA9254-UJA12		-	2\(\0.484.0\(\0.14.12.1\)	
				3VA9484-0JA13 ¹⁾	
3VA9113-0QA00	-	-	-	-	-
_	3VA9213-0QA00	3VA9203-0QA00	3VA9203-0QA00	_	_
_	-	-	-	3VA9403-0QA00	_
	_	_	_	-	3VA9603-0QA00
					317.3003 047.00
3VA9114-0QA00	-	_	-	-	-
-	3VA9214-0QA00	3VA9204-0QA00	3VA9204-0QA00	-	-
-	-	_	-	3VA9404-0QA00	-
-	-	-	-	-	3VA9604-0QA00
3VA9113-0JB10	-	-	-	-	-
_	_	3VA9103-0JB11	3VA9103-0JB11	_	_
3VA9113-0JB11	-	_	_	_	_
_	-	3VA9263-0JB12	3VA9263-0JB12	-	-
_	3VA9253-0JB12	-	-	-	-
_	-	-	-	3VA9383-0JB13 ²⁾	-
3VA9114-0JB10	_	_	-	-	-
_	_	3VA9104-0JB11	3VA9104-0JB11	_	_
3VA9114-0JB11	-	-	-	-	-
-	-	3VA9264-0JB12	3VA9264-0JB12	-	_
_	3VA9254-0JB12	-	-	_	-
	3				

Connection technology



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

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Circular conducto	r termina	als with control w	vire taps, 1 cable 2)			
	_	ection options	Scope of supply	Cable cross-section	Copper/aluminum stranded	
					Cu Al	
	1	2	3 single terminals	1.5 10 mm²	-	
0 0 0				1.5 50 mm²	-	
				10 95 mm²		
				16 185 mm²	■ 4)	
				50 185 mm²		
				50 300 mm²	■ 3)	
2222	1	2	4 single terminals	1.5 10 mm²	-	
୍ଥ ଗ ଗ ଗ				1.5 50 mm²	-	
				10 95 mm²		
				16 185 mm²	■ 4)	
				50 185 mm²		
				50 300 mm²	■ 3)	
Circular conducto	r termina	ils, 2 cables				
	Conne	ection options	Scope of supply	Cable cross-section	Copper/aluminum stranded ³⁷	Control wire tap
					Cu Al	
	1	2	3 single terminals,	120 300 mm²		No
and and an			1 short terminal cover			Yes ²⁾
	1	2	4 single terminals,	120 300 mm²		No
			1 short terminal cover			Yes ²⁾
Circular conducto	r termina	ıls, 3 cables				
	Conne	ection options	Scope of supply	Cable cross-section	Copper/aluminum stranded	Control wire tap
					Cu Al	
-1-1-1	1	2	3 single terminals,	120 185 mm²		No
की की की			1 short terminal cover			Yes ²⁾
20 E1 E1						
200						
	1	2	4 single terminals,	120 185 mm²		No
			1 short terminal cover			Yes ²⁾
សិសាសាសា						
7 7 7						
Control wire taps	for box t	erminals ²⁾				
	_	ection options				
	1					
tir	2					
Control wire taps	for bush:	ars ²⁾				
control wire taps		ection options				
	COMMI	cedon options				



- 1
- 2
- Maximum current-carrying capacity of copper cables 380 A Maximum current-carrying capacity of aluminum cables 310 A
- ²⁾ Maximum current-carrying capacity 15 A Maximum cable connection up to 2.5 mm²
- 3) Al cable only tested according to UL 486 A/B
- 4) Use antioxidants

	3VA13				
	3VA14				
3VA15	3VA23		3VA20		3VA10
3VA25	3VA24	3VA22	3VA21	3VA12	3VA11
-	-	-	-	-	3VA9113-0JG10
-	-	3VA9103-0JG11	3VA9103-0JG11	-	-
-	-	-	-	-	3VA9113-0JG11
-	-	3VA9263-0JG12	3VA9263-0JG12	-	_
-	-	-	-	3VA9253-0JG12	_
-	3VA9383-0JG13 ¹⁾	-	-	-	-
-	-	-	- 2VA0404 01644	-	3VA9114-0JG10 _
-	-	3VA9104-0JG11 –	3VA9104-0JG11 –	-	
	-			<u>-</u>	3VA9114-0JG11 _
-	-	3VA9264-0JG12 _	3VA9264-0JG12	3VA9254-0JG12	
_	3VA9384-0JG13 ¹⁾	- -	-	5VA9254-0JG12 -	
	3VA3304-01013				
3VA9503-0JB23	-	-	-	-	-
3VA9503-0JG23	_	_	_	_	_
3VA9504-0JB23	_	_	_	_	_
3VA9504-0JG23	-	-	-	-	_
3VA9503-0JB32	-	-	-	-	-
3VA9503-0JG32	-	-	-	-	_
3VA9504-0JB32	-	-	-	-	
3VA9504-0JG32	-	-	-	-	-
_	3VA9480-0WB00	3VA9200-0WB00	3VA9200-0WB00	3VA9200-0WB00	3VA9110-0WB00
	21/40/400 014/000	3VA9280-0WB00	3VA9280-0WB00	3VA9280-0WB00	3VA9150-0WB00
_	3VA9480-0WB00				
-	3VA948U-UWBUU				
-	3VA9480-UWB00				
-	3VA9480-UWB0U				
-	3VA9480-0WB00	3VA9200-0WC00	3VA9200-0WC00	3VA9200-0WC00	3VA9110-0WC00

Connection technology



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

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

Note:

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

Front bus connectors



• •					
Number of poles	Connec	tion options	Scope of supply	Max. tap width	Max. tap thickness
1P	1	-	1 terminal	22 mm	8 mm
3P	-	2	3 terminals	6 × 50 mm	8 mm

Front bus connectors, with phase barriers

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





Thase barriers are included in the connection technology scope of supply of can be ordered as a spare part (3VA3WA00).								
Number of poles	Connec	ction options	Scope of supply	Max. tap width	Max. tap thickness			
3P	1	②	3 terminals,	22 mm	8 mm			
			2 phase barriers	32 mm	10 mm			
				40 mm	12.5 mm			
				50 mm	28 mm			
4P	1	2	4 terminals, 3 phase barriers	22 mm	8 mm			
				32 mm	10 mm			
				40 mm	12.5 mm			
				50 mm	28 mm			

Bus connectors edgewise, with phase barriers

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



Number of poles	Connec	ction options	Scope of supply	Max. tap width	Max. tap thickness
3P	1	2	3 terminals, 2 phase barriers	20 mm	6 mm
				25 mm	7 mm
				40 mm	8 mm
4P	1	2	4 terminals, 3 phase barriers	20 mm	6 mm
				25 mm	7 mm
				40 mm	8 mm

Front bus connectors broadened, with phase barriers

- 3-pole and 4-pole bus connectors broadened only permitted if used with phase barriers!
- · Phase barriers are included in the connection technology scope of supply or can be ordered as a spare part (3VA9...- WA00).
- Distance between pole centers:
 - 100/160 A = 35 mm
 - 250 A = 45 mm
 - 400/630 A = 70 mm





100,050,1	0					
Number of poles	Conne	ction options	Scope of supply	Max. tap width	Max. tap thickness	
3P	1	2	3 terminals,	30 mm	8 mm	
			2 phase barriers	35 mm	10 mm	
	_			60 mm	12.5 mm	
				80 mm	10 mm	
		2	3 terminals,	80 mm	15 mm	
			2 Phase barriers			
4P	1	2	4 terminals,	30 mm	8 mm	
			3 phase barriers	35 mm	10 mm	
				60 mm	12.5 mm	
				80 mm	10 mm	

2000		3VA20	3VA13 3VA14	20045	
3VA10	21/1/2	3VA21	3VA23	3VA15	21/106
3VA11	3VA12	3VA22	3VA24	3VA25	3VA26
3VA9151-0QB00					
-			_	3VA9603-0QB01	
				34/13003 00001	
3VA9153-0QB00	-	-	-	-	-
-	3VA9253-0QB00	3VA9263-0QB00	-	-	-
-	-	-	3VA9483-0QB00	-	-
-	-	-	-	3VA9603-0QB00	-
21/40154 00000					
3VA9154-0QB00	- 2VA02E4 00000	-	-	-	-
-	3VA9254-0QB00	3VA9264-0QB00 -	- 2)/A0484 00000	-	-
- -	-	<u>-</u>	3VA9484-0QB00 _	- 3VA9604-0QB00	-
				3VA3004-0Q000	
2)/40152.00000					
3VA9153-0QD00 -	3VA9253-0QD00	- 3VA9263-0QD00	_	_	
	- -	- -	3VA9483-0QD00	_	
			34713 103 0QB00		
3VA9154-0QD00	-	-	-	-	-
-	3VA9254-0QD00	3VA9264-0QD00	-	-	-
-	-	-	3VA9484-0QD00	-	-
3VA9153-0QC00	-	-	-	-	-
_	3VA9253-0QC00	3VA9263-0QC00 -	- 2\/\\0.483\\0.000	-	-
_		-	3VA9483-0QC00 _	3VA9603-0QC00	_
_				3473003-00000	
-	-	-	-	3VA9603-0QC01	3VA9603-0QC01
3VA9154-0QC00	-	-	-	-	-
-	3VA9254-0QC00	3VA9264-0QC00	-	-	-
-	-	-	3VA9484-0QC00	-	-
_	_	_	-	3VA9604-0QC00	

Connection technology



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

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

20 01 120 130								
Nut keeper kits, righ								
	Number of poles	Conne	ction options	Scope of supply	Max. tap width	Max. tap thickness		
44	3P	1	2	3 terminals,	22 mm	8 mm		
				2 phase barriers	32 mm	10 mm		
777					40 mm	12.5 mm		
444	4P	(1)	②	4 terminals,	22 mm	8 mm		
				3 phase barriers	32 mm	10 mm		
					40 mm	12.5 mm		
TTT.								
Rear connection stu	ds flat							
	Number of poles	Conne	ction options	Scope of supply				
	1P	1	@	1 short connection stud flat				
				1 long connection stud flat				
ada Let	3P		2	2 short connection studs flat, 1 long connection stud flat				
-00		_	2	3 short connection studs flat				
dada	4P	1	@	2 short connection stud 2 long connection stud				
Rear connection stu	ds round							
	Number of poles	Conne	ction options	Scope of supply				
a	1P	1	2	1 short connection stud	l round			
				1 long connection stud	round			
ada An A	3P	1	@	1 long connection stud 2 short connection stud				
dede	4P	1	@	2 long connection studs 2 short connection stud				

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

3VA10		3VA20 3VA21	3VA13 3VA14 3VA23	3VA15
3VA11	3VA12	3VA22	3VA24	3VA25
3VA9113-0QG00	-	-	-	-
-	3VA9213-0QG00	3VA9223-0QG00	-	-
_	-	-	3VA9403-0QG00	-
3VA9114-0QG00	-	-	-	-
	3VA9214-0QG00	3VA9224-0QG00	-	-
-	-	-	3VA9404-0QG00	-
3VA9111-0QE10	3VA9211-0QE10	3VA9201-0QE10	3VA9401-0QE10	-
3VA9111-0QE20	3VA9211-0QE20	3VA9201-0QE20	3VA9401-0QE20	_
31.3.1.1 04220	377.527.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	377.520. 00220	317.5 10 1 0 2 2 2 0	
3VA9113-0QE00	3VA9213-0QE00	3VA9203-0QE00	3VA9403-0QE00	-
-	-	-	-	3VA9603-0QE01
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	_
377717-00100	3473217-00100	3V/19204-0Q100	3V/19T-19Q100	

Connection technology



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

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Circular conductor terminals, 2P									
	Connection options	Scope of supply	Number of cables	Cable cross-section	Cu/Al str	anded Al	Control wire tap		
	① -	2 single terminals, 1 extended terminal cover,	1	25 150 mm²	•	3)	Yes 1) No		
99		1 insulation plate	6	1.5 35 mm²	•	-	No		

Circular conductor terminals, 3P

Note on 3VA9603-0JJ25, 3VA9603-0JJ35 and 3VA9603-0JJ45:

1 set of front bus connectors 3VA9603-0QB01 is required

for installing circular conductor terminals on the load side and/or outgoing side.



Connection options	Scope of supply	Number of cables	Cable cross-section	Cu/Al stra Cu	nded Al	Control wire tap
① -	3 single terminals,	1	25 150 mm²	•	3)	Yes 1)
	1 extended terminal cover,					No
	1 insulation plate		50 240 mm²			Yes 1)
						No
		2	25 150 mm²		3)	Yes 1)
						No
			70 300 mm²		■ ²⁾	Yes 1)
						No
		4	120 240 mm²		-	Yes 1)
						No
			120 300 mm ²			Yes 1)
						No
		6	1.5 35 mm²		-	No
- 2	3 single terminals,	1	25 150 mm²		■ 3)	Yes 1)
	1 extended terminal cover,		50 240 mm²			Yes 1)
	1 insulation plate	2	25 150 mm²		3)	Yes 1)
			70 300 mm²		2)	Yes 1)
			150 300 mm ²			Yes 1)
		3	150 300 mm ²			Yes 1)
		4	150 300 mm ²		-	Yes 1)
		6	1.5 35 mm²		-	No

Circular conductor terminals, 4P



terminals, 4P						
Connection options	Scope of supply	Number of cables	Cable cross-section	Cu/Al stra	anded Al	Control wire tap
① -	4 single terminals,	1	25 150 mm²		3)	Yes 1)
	1 extended terminal cover,					No
	1 insulation plate		50 240 mm²			Yes 1)
						No
		2	25 150 mm²		■ 3)	Yes 1)
						No
			70 300 mm²		■ 2)	Yes 1)
						No
		4	120 240 mm²		-	Yes 1)
						No
			120 300 mm²	•		Yes 1)
						No
		6	1.5 35 mm²		_	No
- 2	4 single terminals,	1	25 150 mm²		3)	Yes 1)
	1 extended terminal cover,		50 240 mm²			Yes 1)
	1 insulation plate	2	25 150 mm²		3)	Yes 1)
			70 300 mm²		2)	Yes 1)
		6	1.5 35 mm²	•	-	No

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

Siemens LV 10 · 10/2022

²⁾ Al cable only tested according to UL 486 A/B

³⁾ Max. 225 A

	3VA13				
	3VA14	3VA20			
3VA15	3VA23	3VA21		3VA10	
3VA25	3VA24	3VA22	3VA12	3VA11	
377123					
-	-	-	-	3VA9112-0JC12	
_	-	-	-	3VA9112-0JJ12	
-	-	-	-	3VA9112-0JF60	
	_		_		
_		_	_	_	
-	-	-	-	3VA9113-0JC12	
-	-	_	-	3VA9113-0JJ12	
-	-	3VA9223-0JC13	3VA9213-0JC13	-	
-	-	3VA9223-0JJ13	3VA9213-0JJ13	-	
-	-	3VA9223-0JC22	3VA9213-0JC22	-	
-	-	3VA9223-0JJ22	3VA9213-0JJ22	-	
	3VA9403-0JC23	-	-		
-	3VA9403-0JJ23	-	-	-	
3VA9603-0JC43	-	-	-	-	
3VA9603-0JJ43	-	-	-	<u>-</u>	
3VA9603-0JC44 3VA9603-0JJ44	-	-			
- 34V3002-01144	3VA9303-0JF60	3VA9223-0JF60	3VA9213-0JF60	3VA9113-0JF60	
_	-	-	-	3VA9153-0JC12	
_	-	3VA9263-0JC13	3VA9253-0JC13	-	
-	-	3VA9263-0JC22	3VA9253-0JC22	_	
-	3VA9483-0JC23	-	-	-	
3VA9603-0JJ25	-	-	-	-	
3VA9603-0JJ35	-	-	-	-	
3VA9603-0JJ45	-	-	-	-	
-	3VA9383-0JF60	3VA9263-0JF60	3VA9253-0JF60	3VA9153-0JF60	
-	-	-	-	3VA9114-0JC12	
-	-	-	-	3VA9114-0JJ12	
-	-	3VA9224-0JC13	3VA9214-0JC13	-	
-	-	3VA9224-0JJ13	3VA9214-0JJ13	-	
-	-	3VA9224-0JC22	3VA9214-0JC22	-	
-	-	3VA9224-0JJ22	3VA9214-0JJ22	_	
-	3VA9404-0JC23	-	-	-	
- 3\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3VA9404-0JJ23	-	_	_	
3VA9604-0JC43 3VA9604-0JJ43	<u>-</u> -	<u>-</u>	_ _		
3VA9604-0JC44					
3VA9604-0JJ44	-	_	_	_	
-	3VA9304-0JF60	3VA9224-0JF60	3VA9214-0JF60	3VA9114-0JF60	
-	-	-	-	3VA9154-0JC12	
-	-	3VA9264-0JC13	3VA9254-0JC13	-	
-	-	3VA9264-0JC22	3VA9254-0JC22	-	
-	3VA9484-0JC23	-	-	-	
_	3VA9384-0JF60	3VA9264-0JF60	3VA9254-0JF60	3VA9154-0JF60	

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

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			3VA10	3VA11
pecially for fixed-m				
Version	Number of poles			
Short	1P	① -	-	3VA9111-0WD
	2P	① -	-	3VA9111-0WD
	3P	① -	3VA9111-0WD30	3VA9111-0WD
	4P	① -	3VA9111-0WD40	3VA9111-0WD
Intermediate	3P	① -	-	-
	4P	① -	-	_
Extended 1)	2P	① -	_	3VA9111-0WF
	3P	① -	3VA9111-0WF30	3VA9111-0WF
	4P	① -	3VA9111-0WF40	3VA9111-0WF
Broadened 1)	3P	① -	3VA9111-0WG30	3VA9111-0WG
	4P	① -	3VA9111-0WG40	3VA9111-0WG
pecially for plug-in	and withdrawable units	s (spare part)		
To provide circFor mounting	cuit breaker touch protec to the molded case circu	tion it breaker		
To provide circFor mounting	cuit breaker touch protec to the molded case circu	tion it breaker the infeed and outgoing terminal		
To provide circFor mountingIncluded in sc	cuit breaker touch protect to the molded case circu ope of supply: Cover for t	tion it breaker	3VA9113-0КВ01	3VA9113-0KB
To provide circFor mountingIncluded in scoVersion	cuit breaker touch protec to the molded case circu ope of supply: Cover for t Number of poles	tion it breaker the infeed and outgoing terminal Mounting location ① –	3VA9113-0KB01 3VA9114-0KB01	
To provide cire For mounting Included in so Version Short	cuit breaker touch protec to the molded case circu ope of supply: Cover for t Number of poles 3P 4P	tion it breaker the infeed and outgoing terminal Mounting location ① –		
To provide cire For mounting Included in so Version Short For touch profof the plug-in	cuit breaker touch protect to the molded case circu ope of supply: Cover for to Number of poles 3P 4P	tion it breaker the infeed and outgoing terminal Mounting location		
To provide cire For mounting Included in so Version Short For touch profof the plug-in	cuit breaker touch protect to the molded case circu ope of supply: Cover for to Number of poles 3P 4P rawable sockets tection in the termination	tion it breaker the infeed and outgoing terminal Mounting location ① - ① - ① - on area drawable socket		
To provide cire For mounting Included in so Version Short For touch provide plug-in For mounting For mounting	cuit breaker touch protect to the molded case circu ope of supply: Cover for to Number of poles 3P 4P	tion it breaker the infeed and outgoing terminal Mounting location ① - ① - ① - on area drawable socket		3VA9114-0KB
To provide cire For mounting Included in sco Version Short For touch provide plug-in For mounting Version	cuit breaker touch protect to the molded case circulope of supply: Cover for the Number of poles and the Secretary of the Sec	tion it breaker the infeed and outgoing terminal Mounting location ① - ① - ① area drawable socket Mounting location		3VA9114-0KB 3VA9153-0KB
To provide cire For mounting Included in sco Version Short For touch provide plug-in For mounting Version	cuit breaker touch protect to the molded case circu ope of supply: Cover for to Number of poles 3P 4P rawable sockets tection in the termination or withdrawable socket onto the plug-in or withdrawable soc	tion it breaker the infeed and outgoing terminal Mounting location ① - ① - ① - on area drawable socket Mounting location — ②		3VA9114-0KB 3VA9153-0KB
To provide cire For mounting Included in scoversion Short For touch provide plug-in or withdr For mounting Version Short	cuit breaker touch protect to the molded case circu ope of supply: Cover for to Number of poles 3P 4P rawable sockets tection in the termination or withdrawable socket onto the plug-in or withdrawable soc	tion it breaker the infeed and outgoing terminal Mounting location ① - ① - ① - on area drawable socket Mounting location - ② - ②		3VA9114-0KB 3VA9153-0KB 3VA9154-0KB
To provide cire For mounting Included in sco Version Short For touch provide plug-in For mounting Version	cuit breaker touch protect to the molded case circulope of supply: Cover for the Number of poles of a Parawable sockets tection in the termination or withdrawable socket onto the plug-in or withdrawable soc	tion it breaker the infeed and outgoing terminal Mounting location ① - ① - ① - on area drawable socket Mounting location — ②		3VA9114-0KB 3VA9153-0KB 3VA9154-0KB 3VA9153-0KB
To provide cire For mounting Included in scoversion Short For touch provide plug-in or withdr For mounting Version Short	cuit breaker touch protect to the molded case circulope of supply: Cover for the Number of poles of a Parawable sockets tection in the termination or withdrawable socket onto the plug-in or withdrawable soc	tion it breaker the infeed and outgoing terminal Mounting location ① - ① - ① area drawable socket Mounting location — ② — ②		3VA9113-0KB 3VA9114-0KB 3VA9153-0KB 3VA9154-0KB 3VA9153-0KB
To provide cire For mounting Included in scoversion Short For touch provide plug-in or withdr For mounting Version Short	cuit breaker touch protect to the molded case circulope of supply: Cover for the Number of poles of a Parawable sockets tection in the termination or withdrawable socket onto the plug-in or withdrawable soc	tion it breaker the infeed and outgoing terminal Mounting location ① - ① - ① area drawable socket Mounting location — ② — ②		3VA9114-0KB 3VA9153-0KB 3VA9154-0KB 3VA9153-0KB
To provide cire For mounting Included in so Version Short For touch provide the plug-in For mounting Version Short Extended 1)	cuit breaker touch protect to the molded case circulope of supply: Cover for the Number of poles of a Paramable sockets tection in the termination or withdrawable socket onto the plug-in or withdrawable socket or with the plug-in or withdrawable	tion it breaker the infeed and outgoing terminal Mounting location		3VA9114-0KB 3VA9153-0KB 3VA9154-0KB 3VA9153-0KB 3VA9154-0KB

¹⁾ Including insulating plate

²⁾ Suitable for circular conductor terminals 2/4 cables

	3VA20	3VA13 3VA14	
21/442	3VA21	3VA23	3VA15
3VA12	3VA22	3VA24	3VA25
_	_	_	-
_	_	_	_
3VA9211-0WD30	3VA9221-0WD30	3VA9481-0WD30	3VA9601-0WD30
3VA9211-0WD40	3VA9221-0WD40	3VA9481-0WD40	3VA9601-0WD40
<u> </u>	3VA9221-0WD40	3773481-077040	3VA9601-0WE30 ²⁾
_	_	_	
_	-	-	3VA9601-0WE40 ²⁾
-	-	-	-
3VA9211-0WF30	3VA9221-0WF30	3VA9481-0WF30	3VA9601-0WF30
3VA9211-0WF40	3VA9221-0WF40	3VA9481-0WF40	3VA9601-0WF40
3VA9211-0WG30	3VA9221-0WG30	3VA9401-0WG30	-
3VA9211-0WG40	3VA9221-0WG40	3VA9401-0WG40	-
3VA9213-0KB01	3VA9123-0KB01	3VA9353-0KB01	-
3VA9214-0KB01	3VA9124-0KB01	3VA9354-0KB01	-
3VA9253-0KB03	3VA9163-0KB03	3VA9353-0KB03	3VA9603-0KB03
3VA9254-0KB03	3VA9164-0KB03	3VA9354-0KB03	-
30/323100003	SWISTOTONOOS	347333 61633	
3VA9253-0KB04	3VA9163-0KB04	3VA9353-0KB04	-
3VA9254-0KB04	3VA9164-0KB04	3VA9354-0KB04	-
3VA9253-0KB05	3VA9163-0KB05	3VA9353-0KB05	-
3VA9254-0KB05	3VA9164-0KB05	3VA9354-0KB05	-

Connection technology



- 1) For mounting onto the circuit breaker
- 2 For mounting onto the circuit breaker not be circuit breaker units

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

				3VA10	3VA11
Insulating plates					
	Version	Number of poles	Mounting location		
	Standard	2P	① -	-	3VA9111-0WJ20
		3P	① -	3VA9111-0WJ30	3VA9111-0WJ30
		4P	① -	3VA9111-0WJ40	3VA9111-0WJ40
	Broadened	3P	① -	3VA9111-0WK30	3VA9111-0WK30
		4P	① -	3VA9111-0WK40	3VA9111-0WK40
Phase barriers					
44	Mounting location	Scope of supply			
	1 2	2 phase barriers		3VA915	2-0WA00
	- ②	2 phase barriers			_
Protective sleeve f	or insulation of rear co	onnections			
	Mounting location	Scope of supply			
	2	3 protective sleeves			-
DC insulation plate	es for 3VA1 for fixed-m	ounted molded case	circuit breakers		
	Number of poles				
	3P			3VA911	13-0SG10
	4P			3VA911	4-0SG10
Side plates for 3VA	1 for fixed-mounted n	nolded case circuit bro	eakers		
t The second	Number of poles	Mounting			
пп	2P	On 2-pole molded ca	ase circuit breakers	-	3VA9112-0SG20

		3VA13		
	3VA20	3VA14		
	3VA21	3VA23	3VA15	
3VA12	3VA22	3VA24	3VA25	3VA26
_	-	-	-	-
3VA9211-0WJ30	3VA9221-0WJ30	3VA9481-0WJ30	-	-
3VA9211-0WJ40	3VA9221-0WJ40	3VA9481-0WJ40	-	-
3VA9211-0WK30	3VA9221-0WK30	3VA9481-0WK30	-	-
3VA9211-0WK40	3VA9221-0WK40	3VA9481-0WK40	-	-
3VA9252-0WA00	3VA9262-0WA00	3VA9482-0WA00	3VA9602-0WA00	3VA9602-0WA00
-	-	-	3VA9602-0WA05	3VA9602-0WA05
-	-	-	3VA9603-0WH05	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Plug-in and withdrawable technology

Thanks to plug-in and withdrawable technology:

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

In addition, withdrawable technology offers:

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

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

					3VA13	
				3VA20	3VA14	3VA15
				3VA21	3VA23	3VA25
		3VA11	3VA12	3VA22	3VA24	3VA26
Withdrawable units	, complete kits					
dad	Scope of supply: Withdrawable socket Withdrawable unit, conversion kit Mounting screw kit Note: The crank for the withdrawable unit must be ordered separately.					
	Number of poles					
	3P	-	3VA9213-0KD00	3VA9123-0KD00	3VA9323-0KD00	-
	4P	-	3VA9214-0KD00	3VA9124-0KD00	3VA9324-0KD00	-
Withdrawable units	, conversion kits					
da	Scope of supply: Screw-fastened terminal covers for molded case circuit breakers Side panels Plug-in contacts Cable cages Autotrip plunger Note: The crank for the withdrawable unit must be ordered separately.					
	Number of poles					
	3P	-	3VA9213-0KD10	3VA9123-0KD10	3VA9323-0KD10	-
	4P	-	3VA9214-0KD10	3VA9124-0KD10	3VA9324-0KD10	-

					3VA13	
				3VA20	3VA14	3VA15
				3VA21	3VA23	3VA25
		3VA11	3VA12	3VA22	3VA24	3VA26
Plug-in units, com	plete kits					
	Scope of supply: Plug-in socket Plug-in unit, conversion kit Mote on 3VA9603-0KP00: The circuit breaker must be equipped with additional threaded holes for installing the components of the plug-in unit. When ordering the circuit breaker, specify "with plug-in" accordingly. An undervoltage release (UVR) (article number 3VA9908-0BB) is required in the circuit breaker in order to provide the protection trip specified in the standard for unplugging the circuit breaker under load. The required UVR voltage version must be ordered in addition. Number of poles					
	3P	3VA9113-0KP00	3VA9213-0KP00	3VA9123-0KP00	3VA9323-0KP00	3VA9603-0KP00
	4P		3VA9214-0KP00			-
Plug-in units, conv	ersion kits					
Trick Control of the	Scope of supply: Screw-fastened terminal covers for molded case circuit breakers Plug-in contacts Cable cages Autotrip plunger					
ថថថ	Number of poles					
	3P		3VA9213-0KP10			-
Plug in units -con	4P version kits with blade contacts	3VA9114-0KP10	3VA9214-0KP10	3VA9124-0KP10	3VA9324-0KP10	
	Scope of supply: - 6× blade contacts - Guide frame for circuit breaker - 2× cover for blade contacts - Position signaling switch - Connecting cable for auxiliary circuits Note: The circuit breaker must be equipped with additional threaded holes for installing the components of the plug-in unit. When ordering the circuit breaker, specify "with plug-in" accordingly. Number of poles					3VA9603-0KP10
	ال	_	_	_	_	3 V / 3 U U 3 - U N F I U

Plug-in and withdrawable technology

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

					3VA13	
				3VA20	3VA14	3VA15
				3VA21	3VA23	3VA25
		3VA11	3VA12	3VA22	3VA24	3VA26
Cable cages for plu	ıg-in/withdrawable units (spare part)					
this course of	 For routing of the required cables from the internal accessories on the back of the circuit breaker 					
THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM	Number of poles					
	3P/4P	3VA9157-0KB02	3VA9257-0KB02	3VA9167-0KB02	3VA9367-0KB02	-
Door feedthroughs	;					
		-	3VA9257-0KT00	3VA9167-0KT00	3VA9367-0KT00	-
Autotrip plungers ((spare part)					
<u> </u>	Version					
	Plug-in unit	3VA9157-0KP81	3VA9257-0KP81	3VA9267-0KP81	3VA9457-0KP81	-
	Withdrawable unit	-	3VA9257-0KD81	3VA9267-0KD81	3VA9457-0KD81	-

						3VA13	
					3VA20	3VA14	3VA15
					3VA21	3VA23	3VA25
Accessories							
			3VA11	3VA12	3VA22	3VA24	3VA26
Communications int							
	Scope of sup		21/4 2 2 2 2 2 4 2 2 2	2144 222 2422	2144007 04600	21/4 22 27 21/52 2	
	Set of cables v	with three special position	3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00	-
		210 connecting cables					
fff.							
Position signaling sv		ndrawable unit and plug-	in unit				
A		/A9603-0KB00:					
3		signaling switches can be the plug-in base.					
	IIIStalica III	the plug in buse.	_				
-			3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00	3VA9603-0KB00
Connecting cables							
1	Use						
		f position signaling	3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10	-
		ommunication with					
	COM060	,					2) (4.0.6.0.2, 0) (70.0.0
Cranks for withdraw	For auxiliary c	ircuits	-	-	-	-	3VA9603-0KP80
Cranks for withdraw	Version	Scope of supply					
	Insulated	Including crank	3\/A9987-0KD81	3VA9987-0KD81	3VA9987-0KD81	3VA9987-0KD81	_
	msulated	holder	34773307 01001	3477307 01001	34/19907 01001	347(3307 00001	
Auxiliary circuit con	nectors						
4		ary circuit connector is					
	designed fo	or 4 cables.					
14	Version For all withdra	ovenhla vinita	3V40007 0KD00	3VA9987-0KD80	21/40007 OKD00	2V40007 0VD00	
	For all plug-in			3VA9987-UKD80 3VA9987-0KP80			-
Cylinder locks	roi ali piug-ili	units	3VA9987-0KF80	3VA9987-0KF80	3VA9987-0KF80	3VA9987-0KF80	
cymraer rocks	Scope of si	upply:					
	– 1 lock w						
1. 1		or interlocking					
0 1		for 3VA15/3VA25!					
	Key 1	Lock number	21/40090 01/110	3VA9980-0VL10	21/40090 01/110	2\/\00000 0\/ 10	
	3	3		3VA9980-0VL10			
	4	4		3VA9980-0VL40			
Cylinder lock adapte	ers for withdray	wable units					
-40		unauthorized withdrawal					
		of the circuit breaker					
		thdrawable unit aker can be locked in the					
		TEST and DISCONNECT					
	positions						
	Use						
		ylinder lock in the	3VA9980-0LF40	3VA9980-0LF40	3VA9980-0LF40	3VA9980-0LF40	-
	right-hand sid le unit	le wall of the withdrawab-					
	ie unit						

Residual current devices RCD

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

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

Residual current devices (RCD) for switch disconnectors and molded case circuit breakers • Mounted onto the side (left) Number Type of poles Trip alarm operational voltage U_e frequency TRIP RCD510 0.03 ... 5 A 127 ... 480 V AC 50/60 Hz 3-pole Type A 0 ... 3 s 4-pole RCD310 Type A 0.03 ... 5 A Instantaneous 127 ... 480 V AC 50/60 Hz RCD510 0.03 ... 5 A 0 ... 3 s 127 ... 480 V AC 50/60 Hz Type A

Residual current devices (RCD) for molded case circuit breakers

	• Mounte	ed below (und	ler trip unit)										
	Number of poles	Type	Sensitivity 3)	Rated residual response current $I_{\Delta n}$	Limit value of non-tripping time Δt	Rated operational voltage <i>U</i> _e	Fault current frequency	Pre-a	larm	СОМ	Trip a	NC Q 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 Type B+	0.03 5 A 0.03 0.3 A	0 10 s	127 690 V AC	0 100 kHz	1	•	-	•	•
Shehel		RCD820 ²⁾	Type A	0.03 30 A ⁵⁾	0 10 s	127 690 V AC	50/60 Hz	2					
11-11-11-11	4-pole	RCD320	Type A	0.03 5 A	Instantaneous	127 480 V AC	50/60 Hz	1	-	-		•	_
		RCD520	Type A	0.03 5 A	0 3 s	127 480 V AC	50/60 Hz	1	-	-			-
415,415,415,41		RCD520B ⁴⁾	Type B Type B+	0.03 5 A 0.03 0.3 A	0 10 s	127 690 V AC	0 100 kHz	1	•	-	•	•	-
		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)



/ersion Scope of supply

For RCD310 or RCD510 RCR, RCR-RCD cables

RCD820 - 3VA2 ETU connecting cables (spare part)

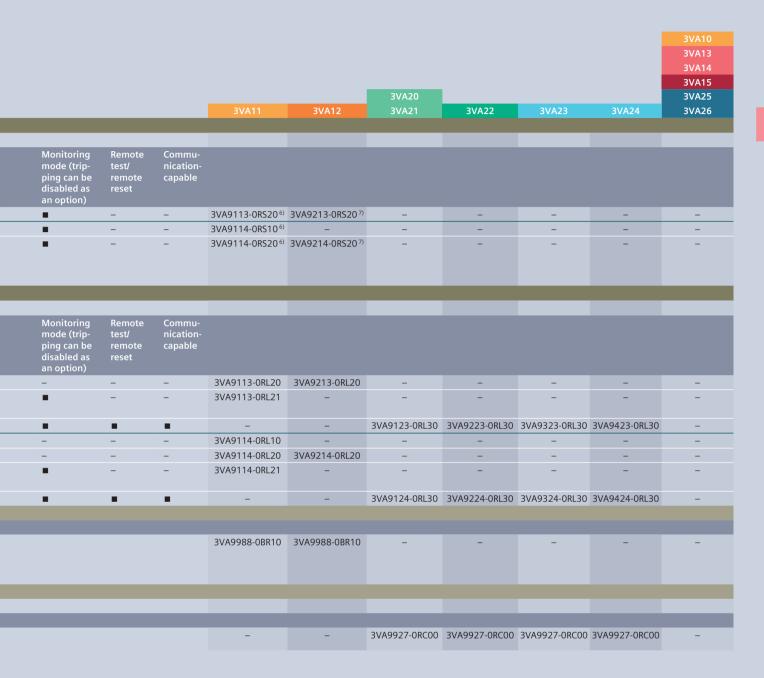
• Connecting cable between the RCD820 and the electronic trip unit (ETU) of a 3VA2



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

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

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



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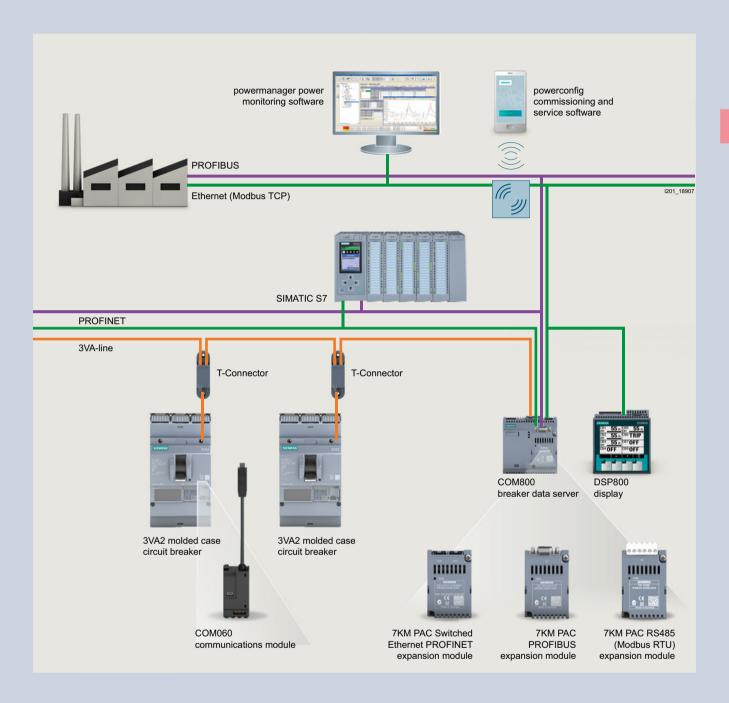
Communication

Measurement 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	Α					
Residual current to ground	Ig	Α					
Phase with highest load		Α					
Average value over the three phase currents	$I_{LAVG} = (I_1 + I_2 + I_3)/3$	Α	_		-		
Asymmetry of the phase currents	I _{nba}	%	-		-		•
THD of the 3 phases	THDI ₁ , THDI ₂ , THDI ₃	%	-		-		
Voltage							
Phase voltages incl. average value	U ₁₂ , U ₂₃ , U ₃₁ , U _{phavg}	V	-				
Voltages to N conductor incl. average value	U _{1N} , U _{2N} , U _{3N} , U _{Navg}	V	-		-		
Voltage unbalance		%	-		-		•
THD phase/phase and phase/N	THDI ₁ , THDI ₂ , THDI ₃	%	-		-		-
Power							
Active power, total and per phase	$P_1, P_2, P_3, P_{\text{tot}}$	kW	-		\Box (P_{tot})		
Apparent power, total and per phase	S ₁ , S ₂ , S ₃ , S _{tot}	kVA	-		-		•
Reactive power, total and per phase	$Q_1, Q_2, Q_3, Q_{\text{tot}}$	kVAr	-				•
Power factor of the fundamental	$P_{\rm F1}, P_{\rm F2}, P_{\rm F3}, P_{\rm Favg}$		-		□ (PF _{avg})		-
Energy							
Active energy, infeed and feedback	E _p	kWh	-				
Reactive energy, infeed and feedback	$E_{\rm q}$	kVArh	-		-		
Apparent energy	E _s	kVAh	-		-		
Frequency							
Present frequency	f	Hz	-				
Min/max pointer function							
Min./max. current, voltage, power	With time stamp	-	-	-	-	-	
Condition Monitoring 2)							
Operating cycles counter	CLOSE-OPEN cycle				-	-	•
Operating hours		h			-	-	•
Trip counter	Differentiated by trip causes		•	•	-	-	•
Health indicator 3)	Incl. contact state	%				-	•
Remaining life time 3)		Time			-	-	•

■ Available □ Displayable - Not available

			3VA23
		3VA20	3VA24
		3VA21	3VA25
		3VA22	3VA26
COM060 communic	ations modules		
	 For mounting in the right-hand accessories compartment of the 3VA2 molded case circuit breaker (including ETU power supply) Including a T-Connector 		
	Use		
	Communication to the COM800/COM100 data concentrator via 3VA line	3VA9187-0TB10	3VA9387-0TB10
SLC adapters (spare	part)		
	Scope of supply		
	5 units	3VA9187-0TB60	3VA9387-0TB60
24 V modules			
N. N.	 24 V DC For mounting in the right-hand accessories compartment of the 3VA2		
10	Use		
	Optional energy supply for the ETU, also includes continuous operation of the ETU display and the measurement function of the ETU 8-series	3VA9187-0TB50	3VA9387-0TB50

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



Communication

Data concentrator

COM800 data concentrators



Article No.

Central communications module for connection of up to eight 3VA2 molded case circuit breakers via the 3VA 3VA9987-0TA10 line, Ethernet 10/100 Mbps interface module socket for inserting an optional PROFIBUS DP or PROFINET module, 2 terminating resistors

COM100 data concentrators



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

3VA9987-0TA20

Article No.

7KM PAC PROFIBUS DP expansion modules



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

Article No. 7KM9300-0AB01-0AA0

7KM PAC Switched Ethernet PROFINET expansion modules



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

7KM9300-0AE02-0AA0

Article No.

Article No.

6MF2862-2AA00

7KM PAC RS485 Modbus RTU expansion modules



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

7KM9300-0AM00-0AA0

Interfaces to IEC 61850

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

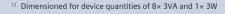
Processor assembly



SICAM CP-8021 ¹⁾	4 interfaces			6MF2802-1AA00
SICAM PS-8620		2/	60 V DC (12 W)	6ME2862-04400

110 ... 220 V DC (12 W)

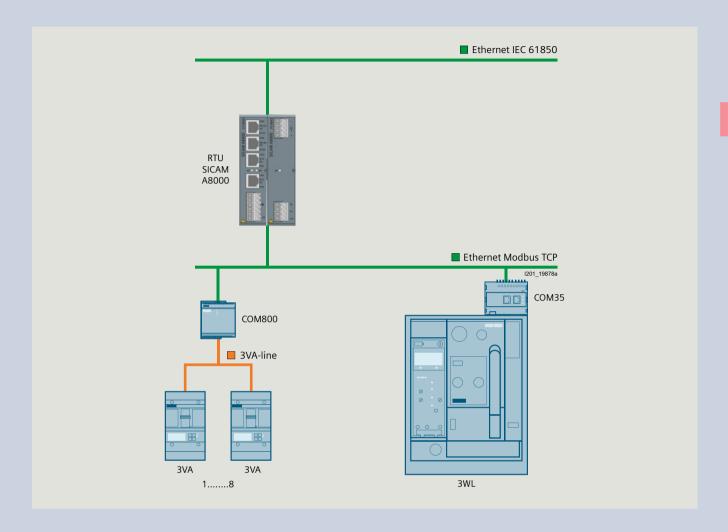
Operating voltage



SICAM PS-8622

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

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Communication

Accessories for communication

T-connectors (spa	re part)		
CE ID	Use		Article No.
EC	Provides a stub connection to the COM060 and loo	ps through to the next circuit breaker.	3VA9987-0TG10
DIN-rail adapters			
1	Use		Article No.
mmm	For snapping the T-Connector onto a DIN rail.		3VA9987-0TG11
Prefabricated con	necting cables, T-connector – T-connector or T-conne	ctor – COM800/COM100	
	Length		Article No.
	0.4 m		3VA9987-0TC10
	1 m		3VA9987-0TC20
	2 m		3VA9987-0TC30
	4 m		3VA9987-0TC40
refabricated con	necting cables for extending the COM060 – T-connec	tor stub connection	
	Length		Article No.
	0.4 m		3VA9987-0TF20
1917	0.8 m		3VA9987-0TF10
Additional bus ter	minating resistors (spare part)		
humal I	Use		Article No.
5	For COM800 and COM060		3VA9987-0TE10
oltage tap to ext	ernal N conductors (spare part)		
	Use		Article No.
3	Cable for connection of the star point for the meas	urement function of the 8-series ETU, length 1.5 m	3VA9987-0UC10
xternal current t	ransformer for N conductors		
5	Use	Rated current	Article No.
	For 3VA2 3-pole molded case circuit breakers,	25 150 A	3VA9007-0NA10
7	for 5 and 8-series ETUs,	160 350 A	3VA9107-0NA10
	including connecting cables	400 630 A	3VA9307-0NA10
xternal current t	ransformers as straight-through transformers		
	Rated current		Article No.
	25 150 A		3VA9077-0NA10
Y	160 350 A		3VA9177-0NA10
	400 630 A		3VA9377-0NA10
	600 1250 A		3VA9677-0NA10
onnecting cables	s for external current transformers for N conductors (spare part)	
-			Article No.
			3VA9907-0NB10
P.			

Display

DSP800 displays



For displaying the status and measured values of up to eight devices
• 3VA2 via COM800/100

- 3VA27
- 3WL10
- 3WL11-13
- PAC3200T

System overview, page 2/20

3VA9987-0TD10

External function box

EFB300 external function boxes



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

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

Connecting cables for EFB300



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

Test devices

TD300 test devices

Use Connection Article No.

For activation of the ETU and initiation of a test tripping operation SVA9987-0MA10

TD400 test devices 1)



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

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

TD500 test devices



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

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

External power supplies for TD500 (spare part



 Voltage
 Article No.

 110 ... 240 V
 3VA9987-0MX10

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



Article No. 3VA9987-0MY10

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

Locking, blocking and interlocking

						3VA20 3VA21
				3VA11	3VA12	3VA22
Locking	The locking provision	s make it possible to l	ock the 3VA molded case circuit breakers		_	
	in either the OFF or t	he ON operating posit	ion.	_		
	Cylinder lock	Key 1 (lock num			3VA9980-0VL10	
		Key 3 (lock num			3VA9980-0VL30	
		Key 4 (lock num	ber 4)		3VA9980-0VL40	
	Adapter kit for mounting of the molded case circu		pe RONIS) in the accessories compartment	3VA9157-0LF10	3VA9257-0LF10	3VA9167-0LF10
	Locking provision for ha	ndle operating mecha	nism	3VA908	8-0LB10	3VA9388-0LB10
Interlocking						
	 molded case circuit b The interlock system circuit breaker can be 	reakers. is designed to ensure operated at a time.	e to mutually interlock two or more that no more than one molded case be used on 3VA molded case			
	Version					
	Cylinder lock	Key 1 (lock num	ber 1)		3VA9980-0VL10	
		Key 3 (lock num	ber 3)		3VA9980-0VL30	
0.1		Key 4 (lock num	ber 4)		3VA9980-0VL40	
	Sliding bar interlock			3VA9158-0VF30	3VA9258-0VF30	3VA9168-0VF30
	Handle interlocking mod	dule with Bowden cab	le	3VA9157-0VF10	3VA9257-0VF10	3VA9167-0VF10
	Bowden cable		Length 0.6 m		3VA9980-0VC10	
			Length 1.0 m		3VA9980-0VC20	
			Length 1.5 m		3VA9980-0VC30	
All I	Rear interlock with rod		Circuit breaker, fixed-mounted		3VA9088-0VM10	
			Plug-in/withdrawable technology		3VA9088-0VM30	
	Mounting frame for real	r interlock with rod	Mounting rails		3VA9088-0VK10	
			Mounting plate	3VA9158-0VK20	3VA9258-0VK20	3VA9268-0VK20

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	2)/445	ı					
3VA14 3VA23	3VA15 3VA25						
3VA23	3VA26						
3VA24	3VA20	Locking					
		LOCKING					
		Use in	Locking in OFF position	Locking in ON position	Front mounting	Rear mounting	Interlocked breakers
	0-0VL10	Breakers, motor	•	•	•	-	-
	0-0VL30	operators, manual operators, withdrawable					
3VA998	0-0VL40	technology					
3VA9367-0LF10	3VA9587-0LF10	Circuit breaker					_
377,5307 021 10	317,3307 02. 10	en cuit bi cuitei	_	_	_		
3VA9388-0LB10	3VA9588-0LB10	Circuit breaker	•	•	•	-	-
		Interlocking					
		Use in	Locking in	Locking in	Front	Rear	Interlocked
3VA9980-0VL10	-	Breakers, manual	OFF position	ON position	mounting	mounting _	breakers Unlimited
3VA9980-0VL30	_	operators	-	-	_		Ommined
3VA9980-0VL40	-						
3VA9368-0VF30	-	Circuit breaker	-	-	•	-	3
3VA9367-0VF10	3VA9587-0VF10	Circuit breaker		_			3
3477307-04110	3VN3307-0VI 10	Circuit breaker			•		J
	0-0VC10						
	0-0VC20						
3VA998	0-0VC30						
3VA9088-0VM10	3VA9588-0VM10 ¹⁾	Circuit breaker, fixed-mounted,	-	-	-	•	2
3VA9088-0VM30	-	plug-in/withdrawable					
		technology					
3VA9088-0VK10	-	Fixed-mounted	-	-	-	•	
3VA9468-0VK20							
3VA9468-0VK20	<u> </u>						
3VA9468-0VK20	-						
3VA9468-0VK20	-						

Cover frame and mounting

			3VA10	
			3VA11	3VA12
ver frames for	door cut-outs for molded case			
	Number of poles	Door cut-out with trip unit		
	3P	No	3VA9053-0SB10	3VA9253-0SB10
		Yes	3VA9053-0SB20	3VA9253-0SB20
	4P	No	3VA9054-0SB10	3VA9254-0SB10
		Yes	3VA9054-0SB20	3VA9254-0SB20
er frames for	motor operators			
	Use			
	MO320 motor operator		3VA9053-0SB20	3VA9257-0SB30
	Motor operator with SEO52	0 stored energy mechanism	-	-
er frames for	RCD320, RCD520 and RCD820 r	esidual current devices		
	Number of poles			
	3P		3VA9053-0SB10	3VA9253-0SB10
	4P		3VA9054-0SB10	3VA9254-0SB10
ver frames for	front mounted rotary operator	5		
			3VA9053-0SB10	3VA9253-0SB10
er frames for	door feedthroughs			
			-	3VA9253-0SB20
eling plates fo	or cover frame			
			3VA	9087-0SX10
I-rail adapter f	or 3VA1 molded case circuit br	eakers		
1 1	Number of poles		2)(4.04.04.05)(4.04)	
	1P		3VA9181-0SH10 1)	-
: •	2P		3VA9182-0SH10	-
	3P and 4P		3VA9187-0SH10	-
	3P and 4P in connection wit	n RCD310 or RCD510	3VA9187-0SH20	
unting course	_	Number of poles		
unting screw l	llso -			
unting screw l	Use		2\/\0111_00010	
unting screw l	For fixed-mounted circuit	1P	3VA9111-0SS10	- 05510
unting screw l		1P 2P and 3P (apart from 125 A/160 A with 55 kA and 70 kA)	3VA911	6-0SS10
unting screw l	For fixed-mounted circuit	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	3VA911 3VA911	4-0SS10
unting screw l	For fixed-mounted circuit	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	3VA911	4-0SS10 –
ounting screw l	For fixed-mounted circuit	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	3VA911 3VA911	4-0SS10
ounting screw l	For fixed-mounted circuit breakers	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	3VA911 	4-0SS10 - - -
ounting screw k	For fixed-mounted circuit	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 3P and 4P	3VA911 	4-0SS10 –

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

	3VA13	
3VA20	3VA14	3VA15
3VA21	3VA23	3VA25
3VA22	3VA24	3VA26
3VA9163-0SB10	3VA9383-0SB10	3VA9503-0SB10
3VA9163-0SB20	3VA9363-0SB20	3VA9503-0SB20
3VA9164-0SB10	3VA9384-0SB10	3VA9504-0SB10
3VA9164-0SB20	3VA9364-0SB20	3VA9504-0SB20
3VA9257-0SB30	3VA9377-0SB30	-
3VA9167-0SB30	3VA9377-0SB30	-
3VA9253-0SB10	3VA9303-0SB40	-
3VA9254-0SB10	3VA9303-03B40 3VA9304-0SB40	
374-03810	3749304-03640	
3VA9163-0SB10	3VA9383-0SB10	3VA9503-0SB50
3VA9253-0SB20	3VA9353-0SB20	-
_	3VA9087-0SX10	
	3VA3007-03X10	
-	-	=
-	-	-
-	-	-
	-	-
-	-	-
-	-	-
-	-	-
3VA9126-0SS10	-	-
3VA9124-0SS10	-	-
-	3VA9328-0SS10	3VA9517-0SS10
-	-	3VA9603-0SS10
3VA9124-0SS10	3VA9328-0SS10	-

System overview

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

Molded case circuit breakers





Handle

Stored energy mechanism

Trip units



Electronic trip unit (ETU)

Accessories







broadened

Communications module

Rating plugs

Breaker Connect module

Test devices and breaker data adapters

Main conductor connections



Rear vertical/ Rear

broadened



extended

Front Front



Cable lug

Accessories







Terminal cover

Motors

horizontal



Spring charging

Accessories



Mechanical operating cycles counter (MOC)

Auxiliary releases/closing coils



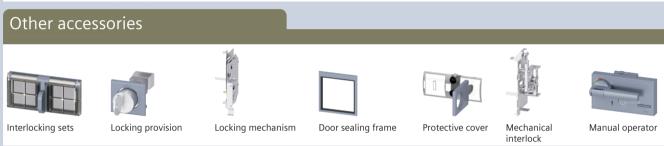


Undervoltage release (UVR)/ Shunt trip (ST)

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

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





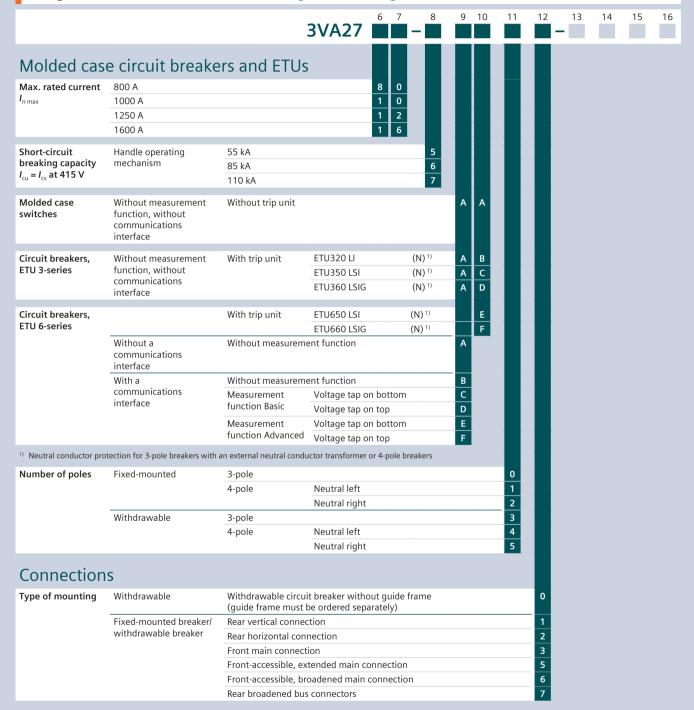
Note:

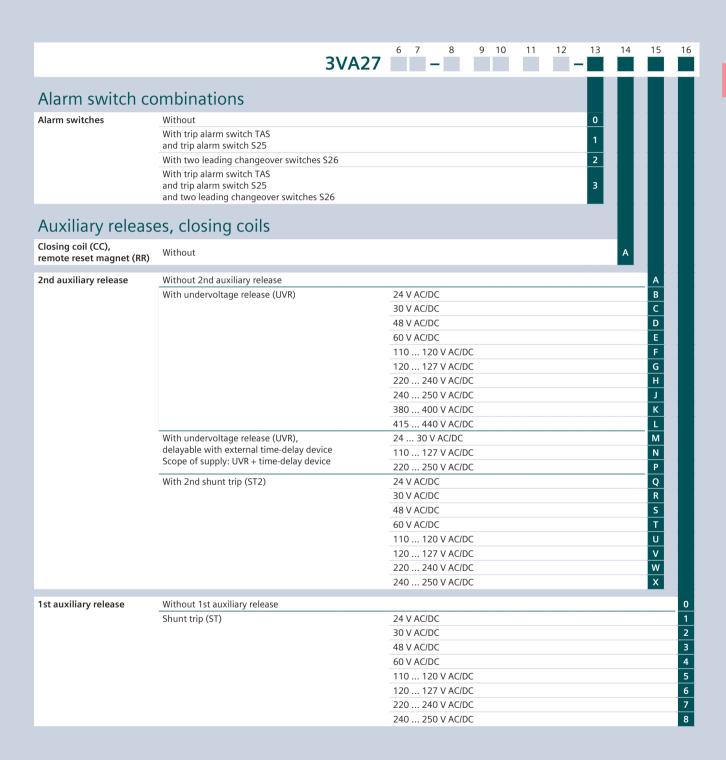
You will find a detailed range of accessories in the Accessories and spare parts section.

Structure of the article numbers

Basic configuration with handle operating mechanism 🚄

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

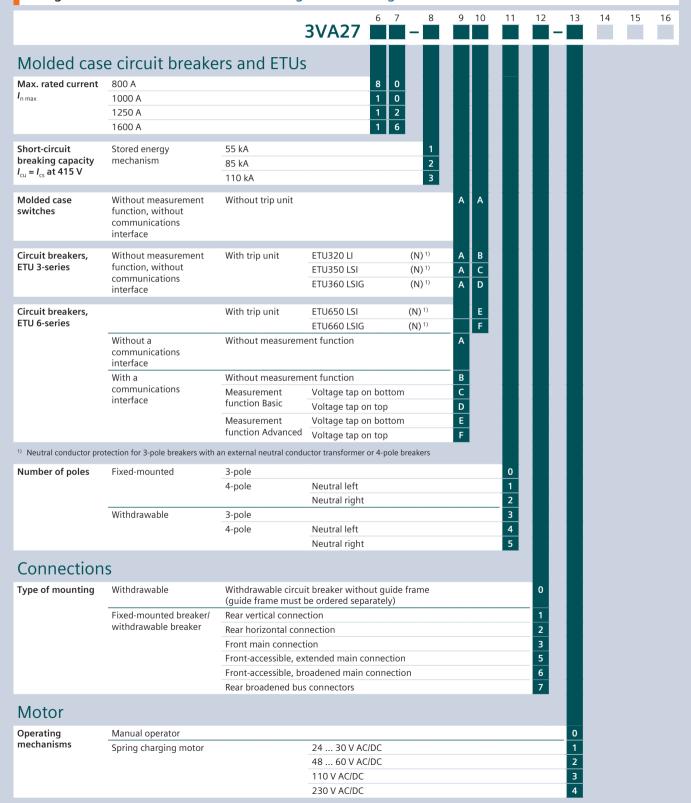




Structure of the article numbers

Basic configuration with stored energy mechanism **\{**

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



	3VA:	27 8 9 10 11 12 13 14	15	16
Auxiliary release	es, closing coils, remote res	et magnets		
Closing coil (CC), Without A				
remote reset magnet (RR)	Closing coil (CC)	24 V AC/DC B		
	closing con (cc)	30 V AC/DC C		
		48 V AC/DC D		
		60 V AC/DC		
		110 120 V AC/DC F		
		120 127 V AC/DC G		
		220 240 V AC/DC		
		240 250 V AC/DC		
	Closing coil (CC) and additional remote reset magnet (RR)	24 V AC/DC K		
		110 V AC/DC		
		220 V AC/DC M		
2nd auxiliary release	Without 2nd auxiliary release		А	
	With undervoltage release (UVR)	24 V AC/DC	В	
		30 V AC/DC	С	
		48 V AC/DC	D	
		60 V AC/DC	E	
		110 120 V AC/DC	F	
		120 127 V AC/DC	G	
		220 240 V AC/DC	Н	
		240 250 V AC/DC	J	
		380 400 V AC/DC	К	
		415 440 V AC/DC	L	
	With undervoltage release (UVR), delayable with external time-delay device Scope of supply: UVR + time-delay device	24 30 V AC/DC	М	
		110 127 V AC/DC	N	
		220 250 V AC/DC	Р	
	With 2nd shunt trip (ST2)	24 V AC/DC		
		30 V AC/DC	Q R	
		48 V AC/DC	S	
		60 V AC/DC	S T	
		110 120 V AC/DC	U	
		120 127 V AC/DC	٧	
		220 240 V AC/DC	W	
		240 250 V AC/DC	Х	
1st auxiliary release	Without 1st auxiliary release			0
	Shunt trip (ST)	24 V AC/DC		1
		30 V AC/DC		2
		48 V AC/DC		3
		60 V AC/DC		4
		110 120 V AC/DC		5
		120 127 V AC/DC		6
		220 240 V AC/DC		7
		240 250 V AC/DC		8

Accessory options

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

To specify the options, add "-Z" to the complete article number and Order code indicate the appropriate order code(s). 3VA27..-...-Z Accessories for basic configuration Mounting options for fixed-mounted circuit breakers • In the basic configuration, the fixed-mounted circuit breaker is mounted onto the rear panel. Floor mounting is possible as an option. The device must additionally be modified if it is to be extended to include functionalities such as external auxiliary switches or mechanical interlocking mechanism.1) A07 Mounting options for Floor mounting Mounting support standard ∡ fixed-mounted circuit Mounting support extended 2) **₹** ∡ breakers1) Rear panel mounting onto mounting plate Side wall extended 2) ₹ 🚣 Accessories for electronic trip units ETU Rating plugs As standard, the electronic trip units are equipped with a rating plug for setting the rated current Interest of 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). B04 For setting the rated current I_n For all FTUs Rating plug 400 A **₹** B06 630 A Š 800 A ₹ ∡ 1000 A ₹ ∡ 1200 A Š ∡ For setting the rated current I_n , with overload For 6-series ETUs 400 A Ĭ 4 protection L = OFF Š 630 A ∡ 800 A ξ 4 1000 A ₹ 4 1250 A Ĭ 4 1600 A ¥ 2 For setting the rated current I_n , For ETU660 only 400 A ₹ 4 G04 For enabling the residual current protective function. 630 A ₹ 4 G06 The residual current function is only possible with the 800 A ₹ 4 MF Advanced measurement function. ∡ 1250 A G12 Communications modules Up to 2 different communication modules can be used at the same time. • When using an IOM040 digital I/O module (Z option K56), only 1 communication module can be used. COM040 **PROFIBUS ≨** ∡ Communications modules COM041 **PROFINET** × 4 F03 COM043 ¥ Modbus TCP COM042 ₹ 4 Modbus RTU F12 **Breaker Connect modules** When a circuit breaker with a communications interface is ordered, a Breaker Connect module for external 24 V DC power supply of the electronic components is also supplied ready installed as standard. By means of this Z option, the Breaker Connect module for 24 V DC is replaced by a Breaker Connect module for 110-240 V AC/DC. **Breaker Connect module** 110 ... 240 V AC/DC **₹** ∡ I/O modules internal I/O modules internal IOM040 digital I/O module 2 inputs, 2 outputs ₹ 🚄 K56

- For molded case circuit breakers with stored energy mechanism
- For molded case circuit breakers with handle operating mechanism
- ¹⁾ These functionalities can be applied directly to the frame of the withdrawable circuit breaker, without any modification of the side wall.
- 2) Not possible in connection with or as an alternative to the mounting support, standard (A07)

To specify the options, ac appropriate order code(s)	$dd_{\it w}$ -Z" to the complete article n	umber and indicate the	3VA27		Z	Order code
Accessories for r	notors					
				~		504
Mechanical operating cycles	counter, 5-digit			W	-	C01
Auxiliary switche	es and signaling swit	ches				
 Auxiliary and signaling swit For currents <100 mA for PI The auxiliary/signaling swit a minimum load above 1 	ches for currents >100 mA and up to 4 LC connections, these auxiliary and sig ches for 24 V DC digital signals are des	400 V AC are installed as standa gnaling switches can be replaced				
Position signaling switches f	or guide frames 1)	2 CO 2 CO 2 CO (connected	test disconnected position)	W	<u>∡</u>	K55
Signaling switch	Ready-to-close signaling switch		1 CO digital 24 V DC	IWI	_	K50
	Trip alarm switch (S24)		1 CO digital 24 V DC	W	<u> </u>	K53
	Spring charge signaling switch (S21)	1 CO digital 24 V DC	WW	-	K54
Auxiliary switch	On/Off AUX	4 CO digital 24 V DC		W	∡	K51
		2 CO 400 V AC, and 2 CO digital 24 V DC			∡	K52
Locking, blockin	g and interlocking					
Locking provisions 1)	To prevent movement of the	Cylinder lock	Made by RONIS	W	∡	R78
	withdrawable circuit breaker	For no more than 3 padlocks,	8 mm	W	<u></u>	R65
Locking mechanism	To prevent movement to disconnec	ted position		W	∡	R79
Locking provision	Against unauthorized closing	Cylinder lock, made by RONIS		W	-	S08
	in the operator panel (safe OFF)	For no more than 3 padlocks, plastic 4 mm		W	-	S22
		For no more than 1 padlock, n	netal 7 mm	IW	-	S23
		For no more than 2 padlocks,	metal 8 mm	W	-	S07
Interlocking set	For mechanical ON and/or OFF on	For no more than 3 padlocks,	plastic 4 mm	W	-	S42
	the operator panel	For no more than 1 padlock, n	netal 7 mm	W	-	S43
		For no more than 2 padlocks,	metal 8 mm	¥	-	S44
Protective cover	For mechanical ON/OFF, not lockab	le		W	-	S41
Door sealing frame IP30	IP3x			W	<u>∡</u>	T30

[₹] For molded case circuit breakers with stored energy mechanism

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

Guide frames

Guide frames for ordering separately without circuit breakers

• Guide frames without breakers up to 1600 A



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

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

To specify the options, add "-Z indicate the appropriate order	mber and 3VW8				Order code	
Locking, blocking ar	nd interlocking					
Locking provision	To prevent movement of the	Cylinder lock, made by RONIS	M	∡		R78
	withdrawable circuit breaker	For no more than 3 padlocks, 8 mm	W	∡		R65
Locking mechanism	To prevent movement to disco	nnected position (only in combination with R78 or R65)	W	<u>∡</u>		R79
Auxiliary/signaling switches						
Position signaling switch PSS for guide frame	For 24 V DC digital signals, for minimum currents	2 CO 2 CO 2 CO (connected test disconnected position)	W	∡		K55

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

- a minimum load above 1 mA at 5 V DC, and
- a maximum breaking capacity of 100 mA at 24 V DC.

3VA27

[₹] For molded case circuit breakers with stored energy mechanism

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

Electronic trip unit ETU and accessories

							3VA27
Electronic trip units	(ETU)						
	Version	With communications/ measurement function, enhanced protective functions	Туре	Protective function			Article No.
	With rotary switches	No	ETU320	LIN	¥ .	<u>∡</u>	3VW9011-5AA00
• •			ETU350	LSIN	¥ .	<u> </u>	3VW9012-5AA00
9			ETU360	LSING	W	<u> </u>	3VW9012-7AA00
-	With display	Yes	ETU650	LSIN	¥ .	<u>∡</u>	3VW9017-5AA00
800			ETU660	LSING	W.	<u>∡</u>	3VW9017-7AA00
Measurement funct	tions for ETU650 or ETU660						
MITTER	Description	Protective function/version		Arrangement			Article No.
	Measurement function	MF Basic		-	W.	∠	3VW9011-0AT01
2		MF Advanced		_	¥ .	<u>∠</u>	3VW9011-0AT04
•	Set of cables for voltage tap for MF	For 4-pole circuit breakers with N conductor right		Top or bottom	WW .	<u>∡</u>	3VW9011-0AT08
		For 4-pole circuit breakers		Тор	W.	∠	3VW9011-0AT75
		with N conductor left		Bottom	W	<u>∡</u>	3VW9011-0AT76
		For 3-pole circuit breakers		Тор	W	<u>∡</u>	3VW9011-0AT72
				Bottom	M .	<u>∡</u>	3VW9011-0AT73
External current tra	insformers for N conductors						
5115	Accessory for	Use					Article No.
	ETU320, ETU350, ETU360, ETU650, ETU660	Only for 3-pole circuit breakers			IWI .	<u>∡</u>	3VW9011-0AA30
External current tra	insformers for grounded trans	sformer neutral points					
	Accessory for	G _{ret} (Ground return)					Article No.
	ETU660	100 A			W.	<u>∡</u>	3VW9011-0GF30
		250 A			W .	<u> </u>	3VW9011-0GF31
Summation current	transformers external Rc-CT	for residual current measurement					
		neasurement function and Rc rating plu	g				
	Accessory for	Use					Article No.
	ETU660	For external residual current measurement			W.	<u> </u>	3VW9011-0RC30
Remote reset magn	ets RR for the circuit breakers	including tripped signaling					
) for resetting the circuit breaker after tr	ripping as a resu	ult of overcurrent	t cond	itions	
	Accessory for	Voltage					Article No.
	ETU320, ETU350, ETU360,	24 V DC			¥ .	-	3VW9011-0AK03
	ETU650, ETU660	110 V AC/DC			M ·	_	3VW9011-0AK05
		250 V AC/DC			WM .	-	3VW9011-0AK06
Spare part batteries	for electronic trip unit ETU						
	Accessory for						Article No.
	ETU320, ETU350, ETU360, E	TU650, ETU660			W.	∡	3VW9011-0AT38

- **§** For molded case circuit breakers with stored energy mechanism
- ${\color{red} \angle}$ For molded case circuit breakers with handle operating mechanism

Electronic trip unit ETU and accessories

							3VA27
Rating plugs							
	 Only one module 	is possible per circuit breaker.					
n =400A	Accessory for	Version		Rated current I			Article No.
	ETU320, ETU350,	Rating plugs for setting ($< I_{n \text{ max}}$)		400 A	W .	<u>∠</u>	3VW9011-0AA53
	ETU360, ETU650, ETU660	the rated current I _n		630 A	¥ .	<u>∡</u>	3VW9011-0AA55
	E10000			800 A	¥ .	<u></u> ∠	3VW9011-0AA56
				1000 A	M .	<u>∡</u>	3VW9011-0AA57
				1250 A	¥ .	<u>∠</u>	3VW9011-0AA58
				1600 A	M .	<u> </u>	3VW9011-0AA61
	ETU 6-series	Rating plug without overload protection (L = C	OFF)	400 A	¥ .	<u>∠</u>	3VW9011-0LF53
		and for setting ($< I_{n \text{ max}}$) the rated current I_{n}		630 A	M .	<u>∡</u>	3VW9011-0LF55
				800 A	¥ .	∠	3VW9011-0LF56
				1000 A	¥ .	<u>∠</u>	3VW9011-0LF57
				1250 A	¥ .	<u>∠</u>	3VW9011-0LF58
				1600 A	¥ .	<u>∠</u>	3VW9011-0LF61
	ETU660 Rating plug Rc for ETU660 for enabling of the residual			400 A	W.	<u>∠</u>	3VW9011-0RC53
		current protective function and setting ($< I_{n \text{ max}}$) of the rated current I_n . A residual current function is only possible with the MF advanced measurement function.		630 A	W .	<u>∠</u>	3VW9011-0RC55
				800 A	M .	<u>∡</u>	3VW9011-0RC56
		possible with the im davanced measurement		1250 A	W.	<u>∠</u>	3VW9011-0RC58
47	breaker. This can	 Can only be used with ETU of the 6-series and require a Breaker Connect module for connection to the circuit breaker. This can also be configured directly on the device by means of a Z option if the communications interface to the ETU 6-series is selected. 					
	Communications module	Protocol					Article No.
	COM040	PROFIBUS			¥ .	<u>∠</u>	3VW9011-0AT15
	COM041	PROFINET			¥ .	<u>∠</u>	3VW9011-0AT14
	COM043	Modbus TCP			W .	<u>∠</u>	3VW9011-0AT16
	COM042	Modbus RTU			W .	<u>∡</u>	3VW9011-0AT17
CB bus modules - I/0	O modules external IO	M300					
	For snapping onto	o DIN rail					
Rin	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	IWM .	<u>∡</u>	3VW9011-0AT20
CB bus modules - I/0	O modules internal IO	M040					
73	When using a digital	ital I/O module IOM040, only 1 communication n	nodule can l	be used.			
	Accessory for	Maximum switching current per contact	Inputs	Outputs			Article No.
*********	ETU 6-series	 2 A at ≤ 30 V DC 0.8 A at 50 V DC 0.2 A at 150 V DC 4 A at 250 V AC 	2	2	WW .	₹	3VW9011-0AT30

- $\ensuremath{\xi} \ensuremath{\text{For molded case circuit breakers with stored energy mechanism}}$
- ${\color{red} \angle}$ For molded case circuit breakers with handle operating mechanism

3VA27 • For switching the circuit breaker on/off remotely via communication. Actuation of the closing coil (CC) and the 1st shunt trip (ST). Can only be used in combination with a communications module, spring charging motor, closing coil and 1st shunt trip. Automatically included if the communications interface of the ETU 6-series is selected in the basic circuit breaker configuration. Accessory for ETU 6-series ¥ 3VW9011-0AT10 • For external power supply for the electronics components Article No. 110 ... 240 V AC/DC **≦** ∡ 3VW9011-0AT06 24 ... 48 V DC ₹ ∡ 3VW9011-0AT07 · Auxiliary contacts for signaling the readiness to close or for position signaling switches of the withdrawable positions. • Can only be used in combination with communications module. Can be combined with standard position signaling switches or ready-to-close signaling contacts. Note: Both signaling switches are automatically included in the basic circuit breaker (COM PSS only with withdrawable versions) if the communications interface of the ETU 6-series is selected. Article No. Ready-to-close signaling switch for communication (COM RTC) 3VW9011-0AT11 Position signaling switch COM PSS (for withdrawable breaker only) 3VW9011-0AT12 ₹ 🚣 • Usable for all ETU 3-series and 6-series Description Article No. Type TD310 **≦** ∡ 3VW9011-0AT32 Test device • For the trip test via ETU and tripping solenoid including release · Activation of the ETU and the tripping solenoid by means of a battery built On activation in the ETU 6-series, the parameters can be configured on the display Breaker data adapter TD410 3VW9011-0AT34 • As gateway for parameterization of the ETU with SENTRON powerconfig • For generation of a report of the set parameters with powerservice Test device and breaker data adapter TD420 3VW9011-0AT33 As gateway for parameterization of the ETU with SENTRON powerconfig Testing a tripping operation using SENTRON powerconfig • For use with the powerservice software Testing of the basic protective functions LSING Testing of the enhanced protective functions Test data storage

- $\ensuremath{\S}$ For molded case circuit breakers with stored energy mechanism

Readout of ETU buffer

- Generation of a report of the set parameters

Accessories for connection and insulation

						3VA27
nt main connec		7-2 -7-2 for 3VA27 up to 1600 A (dependin eparately for top and bottom	g on application co	enditions)		_
	Mounting	Version	Mounting onto	Number of poles/	quantity	Article No.
	Fixed-mounted	Front main connections	-	3-pole/3 units	¥ <u>∡</u>	3VW9011-0AL01
00 00				4-pole/4 units	₹ ∡	3VW9011-0AL02
4_1		Extended main terminals,	Front main	3-pole/3 units	₹ ∡	3VW9011-0AL77
		including insulation plate and phase barriers, standard	connections	4-pole/4 units	≦ ∡	3VW9011-0AL78
•••		Broadened main terminals, including insulation plate	Front main connections, top	3-pole/3 units	≦ <u>⊀</u>	3VW9011-0AL73
		and extended phase barriers	Front main connections, bottom	3-pole/3 units	¥ <u>∡</u>	3VW9011-0AL75
			Front main connections, top/ bottom	4-pole/4 units	¥ <u>∡</u>	3VW9011-0AL74
90 00	Withdrawable	Front-accessible terminals for	Guide frame	3-pole/3 units	₹ ∡	3VW9011-0AN01
		main circuit connection	flange	4-pole/4 units	w <u>∡</u>	3VW9011-0AN02
		Broadened main circuit	Front-accessible	3-pole/3 units	₹ ∡	3VW9011-0AN73
		connections	terminals for main circuit connection	4-pole/4 units	₹ ∡	3VW9011-0AN74
r terminals for	main circuit connectio	ns acc. to IEC 60947-2				
		7-2 for 3VA27 up to 1600 A (dependin eparately for top and bottom	g on application co	onditions)		
	Mounting	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
200	Withdrawable	Rear terminals for main circuit	-	3-pole/3 units	₹ ∡	3VW9011-0AN32
		connection, rotatable for horizontal/vertical connection, including terminal cover		4-pole/4 units	§ <u>∡</u>	3VW9011-0AN33
[+]		Broadened main terminals	Rear horizontal	3-pole/3 units	₹ ∡	3VW9011-0AN75
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			main connec- tions	4-pole/4 units	₹ ∡	3VW9011-0AN76
l cable conne	ctions acc. to IEC 6094	7-2	tions			
		7-2 for 3VA27 up to 1600 A (dependin eparately for top and bottom	g on application co	onditions)		
	Mounting	Version	Mounting onto	Number of poles/	quantity	Article No.
APRIL APRIL	Fixed-mounted	Circular conductor terminals	Front main	3-pole/3 units	₹ ∡	3VW9011-0AL71
00 00		4 x 240 mm² for front cable connection ¹¹), including insulation plate and high, extended terminal cover	connections	4-pole/4 units	¥ <u>∡</u>	3VW9011-0AL72
4 4	Withdrawable	Set of circular conductor	Rear vertical	3-pole/3 units	₹ ∡	3VW9011-0AN71
30		connection pieces 4 x 240 mm ² for cable lugs for rear cable connection	main connections	4-pole/4 units	₹ ∡	3VW9011-0AN72

¹⁾ For connecting Al cables up to 1000 A

 $[\]mbox{\ensuremath{\underline{\mathbf{x}}}}$ For molded case circuit breakers with stored energy mechanism

3VA27 Auxiliary supply connectors in push-in version · Control wire tap in push-in version for upgrading fixed-mounted circuit breakers and guide frames. • The device is always fitted at the factory with the exact number of control wire taps required. Article No. 3VW9011-0AB11 Push-in ₹ 🔏 Terminal covers for fixed-mounted circuit breakers Finger-proof for front main connections for fixed-mounted versions · Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately. Article No. Number of poles/quantity Standard 3-pole/2 units 3VW9723-0WD30 § 🔏 4-pole/2 units 3VW9724-0WD40 3VW9723-0WF30 Extended 3-pole/2 units 4 ş 3VW9724-0WF40 4-pole/2 units ş 4 Phase barriers for fixed-mounted circuit breakers • Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately. For operational voltages >440 V AC the use of phase barriers is mandatory; up to 440 V AC their use is optional. Article No. Number of poles/quantity 100 mm (standard) 3-pole/4 units 3VW9723-0WA00 ₹ 🚣 4-pole/6 units ₹ 🚣 3VW9724-0WA10 200 mm (extended) 3-pole/4 units ₹ 🚣 3VW9723-0WA01 W 3VW9724-0WA11 4-pole/6 units 4 Supports for mounting the fixed-mounted circuit breakers on the floor • For fixed-mounted versions only Mounting support standard **₹** ∡ 3VW9011-0BB51 (circuit breaker feet) (= Z option A07) Mounting support extended • Fixation for external auxiliary switches AUX 15 CO 3VW9011-0RR52 (circuit breaker feet) (3VW9011-0AG15) including mechanical Locking mechanism for control cabinet door, direct transmission of switch (for 3VW9011-0BB10) Locking mechanism for control cabinet door, Bowden cable position on circuit breaker side panel (for 3VW9011-0BB16), (= Z option S56) Mechanical interlock to 3WA/3WL/3VA (for 3VW9011-0BB21) Extension kits for modification of the side wall of the fixed-mounted circuit breakers · For fixed-mounted versions only Rear fixation on mounting plate • For modification for mechanical transmission of switch position on circuit breaker side panel (= Z option S57) 3VW9011-0BB53 Extension kit for side wall · Fixation for external auxiliary switches AUX 15 CO **≨** ∡ (3VW9011-0AG15) Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16), Mechanical interlock to 3WA/3WL/3VA

(for 3VW9011-0BB21)

- $\ensuremath{\xi}$ For molded case circuit breakers with stored energy mechanism
- ∡ For molded case circuit breakers with handle operating mechanism

Motor operators and manual operators

						3VA27
Spring charging moto	or (MO)					
To Alexander	Description		Voltage			Article No.
	For automatic charging of the	e stored energy mechanism	24 30 V AC/DO		≦ −	3VW9011-0AF01
4			48 60 V AC/DO		W -	3VW9011-0AF02
			100 130 V AC	/DC	₹ -	3VW9011-0AF03
			220 250 V AC	/DC	₹ -	3VW9011-0AF04
Mechanical operating	cycles counter MOC					
	Description		Version			Article No.
00000	Only possible in combination motor.	with a spring charging	5 digits		W -	3VW9011-0AH07
Manual operators for	handle operating mechanisr	n				
	Description	Version	Color	Degree of protection		Article No.
	Front mounted rotary	Standard	Gray	IP30	- <u>∠</u>	3VW9727-0EK11
	operator incl. door sealing frame	EMERGENCY-OFF	Yellow-red	IP30	- 👱	3VW9727-0EK15
	Door mounted rotary	Standard	Gray	IP30	- 🚄	3VW9727-0FK21
	operator	EMERGENCY-OFF	Yellow-red	IP30	- <u>4</u>	3VW9727-0FK25
		Basic without handle		IP30	- <u>4</u>	3VW9727-0GK00
		Shaft stub		IP30	- 🚄	8UD1900-3WD00
		Handle	Gray	IP30	- <u>∡</u>	8UD1861-0AB11
			Yellow-red	IP30	- <u>4</u>	8UD1861-0AB15

 $[\]ensuremath{\,\overline{\, \mathbb{S}}}$ For molded case circuit breakers with stored energy mechanism

3VA27

Auxiliary releases, closing coils

Closing coils CC/shunt trips ST

Note:

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



ce and share trips 51.	
Voltage	Article No.
24 V AC/DC	3VW9011-0AD01
30 V AC/DC	3VW9011-0AD02
48 V AC/DC	3VW9011-0AD03
60 V AC/DC	3VW9011-0AD04
110 120 V AC/DC	3VW9011-0AD05
120 127 V AC/DC	3VW9011-0AD06
220 240 V AC/DC	3VW9011-0AD07
240 250 V AC/DC	3VW9011-0AD08
380 400 V AC	3VW9011-0AD17
415 440 V AC	3VW9011-0AD18

TD320 function test units for closing coils/shunt trips



- The TD320 test unit allows the operational availability and functions of the closing coils and shunt trips with a rated operational voltage between 24 V and 250 V (AC and DC) to be tested.
- The operational availability test is performed cyclically at intervals of 30 seconds.
- The unit has visual indicators in the form of LEDs on the front in order to display the following states:
 - LED POWER ON LIT: Correct function of the YO/YC test device
 - LED DEACTIVATION LIT: Power supply failure, wire break
 - LED SHORT-CIRCUIT LIT: Winding short-circuit
- LED DEACTIVATION and SHORT-CIRCUIT FLASHING: Incorrect power supply
- LED DEACTIVATION and SHORT-CIRCUIT OFF: Closing coil/shunt trips OK

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

Auxiliary/signaling switches



- The auxiliary/signaling switches for 24 V DC digital signals are designed for
 - a minimum load above 1 mA at 5 V DC, and
 - a maximum breaking capacity of 100 mA at 24 V DC
- For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed-mounted circuit breakers a 3VW9011-0BB5x side wall modification

Description	Contacts			Article No.
Ready-to-close signal RTC	1 CO standard	W	-	3VW9011-0AH01
	1 CO digital	W	-	3VW9011-0AH02
Auxiliary switch ON/OFF AUX	4 CO standard	W.	<u> </u>	3VW9011-0AG01
	4 CO digital	¥.	∡	3VW9011-0AG02
	2 CO standard + 2 CO digital	× .	<u>∡</u>	3VW9011-0AG03
External auxiliary switch ON/OFF AUX	15 CO standard	W.	<u>∡</u>	3VW9011-0AG05
	15 CO digital	₹ .	<u>∡</u>	3VW9011-0AG06
Trip alarm switch S24	1 CO standard	W.	<u>∡</u>	3VW9011-0AH14
	1 CO digital	¥.	<u>∡</u>	3VW9011-0AH15
Spring charge signaling switch S21	1 CO standard	WW	-	3VW9011-0AH10
	1 CO digital	W	_	3VW9011-0AH08
Position signaling switches PSS (only with withdrawable versions)	2 CO 2 CO 2 CO (connected test disconnected position) standard	IWI .	∡	3VW9011-0AH11
	2 CO 2 CO 2 CO (connected test disconnected position) digital	IWW	<u>∡</u>	3VW9011-0AH12

- For molded case circuit breakers with stored energy mechanism
- ∡ For molded case circuit breakers with handle operating mechanism

Auxiliary releases, closing coils

3VA27 Auxiliary/signaling switches for handle operating mechanism · Auxiliary and signaling switches are each offered in two versions: Standard version for currents >100 mA and up to 400/250 V AC, minimum load above 100 mA at 24 V DC, and maximum breaking capacity 5 A at 250 V AC Digital version for currents <100 mA for PLC connections, minimum load above 1 mA at 5 V DC, and maximum breaking capacity 100 mA at 24 V DC For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed-mounted circuit breakers a 3VW9011-0BB5x side wall modification. Article No. Trip alarm switch TAS signals the trip position 1 CO standard __ 3VW9727-0AB11 irrespective of the tripping reason 1 CO digital 2 3VW9727-0AB13 Trip alarm switch via auxiliary release S25 signals 1 CO standard 3VW9727-0AB41 4 tripping operations via auxiliary releases (UVR, ST) in 1 CO digital 3VW9727-0AB43 Leading changeover switch S26 (2 units) 1 NO standard, 250 V AC 3VW9727-0AA21 Fixation for external auxiliary switches AUX 15 CO • External auxiliary switches ON/OFF AUX 15 CO must be ordered separately. Article No. For fixed-mounted circuit breakers with rear panel or floor mounting **₹** 3VW9011-0AG15 (in combination with Z option S56 or S57) For guide frames ₹ 🚣 3VW9011-0AG17 Undervoltage releases UVR Voltage Article No. 24 V AC/DC ₹ 3VW9011-0AE01 30 V AC/DC 3VW9011-0AE02 48 V AC/DC 3VW9011-0AE03 60 V AC/DC 3VW9011-0AE04 110 ... 120 V AC/DC 3VW9011-0AE05 120 ... 127 V AC/DC 3VW9011-0AE06 220 ... 240 V AC/DC 3VW9011-0AE07 240 ... 250 V AC/DC 2 3VW9011-0AE08 380 ... 400 V AC 3VW9011-0AE17 415 ... 440 V AC Ş 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. 24 ... 30 V AC/DC 3VW9011-0AE10 48 V AC/DC 3VW9011-0AE11 60 V AC/DC 3VW9011-0AE15 110 ... 127 V AC/DC 4 3VW9011-0AE12 220 ... 250 V AC/DC 3VW9011-0AE13

For molded case circuit breakers with stored energy mechanism

 $[\]underline{\hspace{0.1cm} \boldsymbol{\angle}}\hspace{0.1cm}$ For molded case circuit breakers with handle operating mechanism

Locking provisions and interlocks

				3VA27
Locking provision to	prevent movement of the withdrawable circu	uit breaker		
	Version			Article No.
	RONIS cylinder lock (spare part for R78)		≦ <u>∡</u>	3VW9011-0BA80
	Padlock 8 mm (spare part for R65), for no mor	re than 3 padlocks	¥ ≼	3VW9011-0BA87
Locking mechanism	s to prevent movement of the withdrawable c	ircuit breakers in disconnected position		
	Only possible as a supplement in conjunction	on with R78 (3VW9011-0BA80) and/or R65 (3VW9011-	OBA87).	
	Description			Article No.
	Locking mechanism (spare part for R79)		₹ ∡	3VW9011-0BA84
Locking provisions				
	 For fixed-mounted and withdrawable version Against unauthorized closing in the operator The disconnector unit fulfills the requirement 			
R	Description			Article No.
	Cylinder lock, made by RONIS (spare part for S	508)	W -	3VW9011-0BA33
Locking provisions	n OFF position			
	 For fixed-mounted and withdrawable versic Against unauthorized closing in the operato The disconnector unit fulfills the requirement 			
		/ersion		Article No.
		lastic for no more than 3 locks	¥ -	3VW9011-0BA41
	Padlock 7 mm (spare part for S23)	Metal for no more than 1 lock	¥ -	3VW9011-0BA42
	<u> </u>	Metal for no more than 2 locks	₹ -	3VW9011-0BA44
Locking provision in	OFF position for handle operating mechanism			
		molded case circuit breakers with rotary operator		
	Description For RONIS		- 🚣	Article No. 3VW9727-0VL10
Locking provision in	OFF position for handle operating mechanism	n without rotary operators		
	Against unauthorized closing in the operate molded case circuit breakers without rotary	or panel in the case of		
	Description			Article No.
	For padlocks		- ∡	3VW9727-0LB10
	For RONIS		- 🗹	3VW9727-0LF10
Interlocking sets fo	mechanical Open and/or Close on the operato	or panels		
	_	/ersion		Article No.
		Plastic for no more than 3 locks	¥ -	3VW9011-0BA22
		Metal for no more than 1 lock	¥ -	3VW9011-0BA23
		Metal for no more than 2 locks	₩ -	3VW9011-0BA24

- \S For molded case circuit breakers with stored energy mechanism
- $\underline{\ensuremath{\angle}}$ For molded case circuit breakers with handle operating mechanism

Locking provisions and interlocks

					3VA27
Protective cover	s for mechanical ON/OFF				
	 Mechanical ON/OFF to Not lockable. 	o protect against unintention	nal actuation on the operator panel.		
	Description				Article No.
	Not lockable (spare part	for S41)		š -	3VW9011-0BA21
Mechanical inter	rlock				
- fr	 For fixed-mounted version 	with Bowden cable 2 m ersions, an additional suppor tion S57) must be ordered	t 3VW9011-0BB52 (option S56) or extens	ion kit	
	Mounting	Mounting			Article No.
	Fixed-mounted	Rear panel or floor mo	punting	<u> </u>	3VW9011-0BB21
	Withdrawable	Mounting onto guide	frame	≦ ∡	3VW9011-0BB22
Bowden cables,	separate				
	One required for eac	h circuit breaker			
	Туре				Article No.
	1000 mm				3VW9011-0BB23
	2000 mm				3WL9111-0BB45-0AA0
	3000 mm				3WL9111-0BB46-0AA0
Locking mechan	isms to prevent opening of t	he control cabinet doors in	ON position		
2		of the control cabinet door in	ON position eing closed when the control cabinet doo	r is open.	
7	Mounting		Version		Article No.
	Fixed mounted on side	panel or floor	Direct fixed interlocking	<u> </u>	3VW9011-0BB10
			Locking with Bowden cable	≣ <u>∡</u>	3VW9011-0BB16
4	Withdrawable		Direct fixed interlocking	₹ ∡	3VW9011-0BB14
2			Locking with Bowden cable	≣ <u>∡</u>	3VW9011-0BB18
			-		
Door sealing fram	mes IP30				
Door sealing fra		you must order the protectiv	e cover IP54 3VW9011-0AP03 or 3VW901	1-0AP13.	
Door sealing fra		you must order the protectiv Mounting	e cover IP54 3VW9011-0AP03 or 3VW901 Version	1-0AP13.	Article No.
Door sealing fra	For IP4x and higher,	, ,		1-0AP13.	Article No. 3VW9011-0AP01
Door sealing fra	• For IP4x and higher, Description	Mounting	Version		
Door sealing fra	 For IP4x and higher, Description Spare part 	Mounting Fixed-mounted	Version IP3x	₹ ∡	3VW9011-0AP01
Door sealing fram	 For IP4x and higher, Description Spare part for Z option T30. 	Mounting Fixed-mounted	Version IP3x	₹ ∡	3VW9011-0AP01 3VW9011-0AP02
	For IP4x and higher, Description Spare part for Z option T30. S IP54 Protective cover/hoo For implementing de	Mounting Fixed-mounted Withdrawable d IP54 lockable for fixed-mounted	Version IP3x	₹ ∡	3VW9011-0AP01 3VW9011-0AP02
	For IP4x and higher, Description Spare part for Z option T30. S IP54 Protective cover/hoo For implementing de	Mounting Fixed-mounted Withdrawable d IP54 lockable for fixed-mounted	Version IP3x IP3x IP3x Inted circuit breakers and withdrawable b IP54 when installing in switchboard door	₹ ∡	3VW9011-0AP01 3VW9011-0AP02
	For IP4x and higher, Description Spare part for Z option T30. s IP54 Protective cover/hoo For implementing de Cannot be combined	Mounting Fixed-mounted Withdrawable d IP54 lockable for fixed-mounted	Version IP3x IP3x IP3x Inted circuit breakers and withdrawable b IP54 when installing in switchboard door e and door mounted rotary operator.	₹ ∡	3VW9011-0AP01 3VW9011-0AP02 3VW9011-0AP04

[§] For molded case circuit breakers with stored energy mechanism

3VL up to 1600 A, IEC



3VL molded case circuit breaker



Product Discontinuation

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

Documents available for downloading:

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

3VL molded case circuit breakers www.siemens.com/lowvoltage/catalogs (109769073)