

Innovative solutions for industrial controls and power distribution

In ensuring smooth operation of digital production environments and in the construction and operation of industrial or commercial buildings, the underlying power distribution and industrial controls are decisive:

SIRIUS, SENTRON, SIVACON and ALPHA provide a broad portfolio of systems and components for this purpose that can be used for standard-compliant, requirement-based electrification.

Efficient engineering tools and cloud-based solutions are part of the portfolio, which you can flexibly adapt to your specific requirements over the entire value-added process.



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

Catalog LV 10 · 04/2022

You will find the latest edition and all future editions in the Siemens Industry Online Support at www.siemens.com/lowvoltage/catalogs

Refer to the Industry Mall for current prices www.siemens.de/lowvoltage/mall



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

The certificate is recognized by all IQNet countries.

Technical specifications

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

All illustrations are not binding.

© Siemens 2022

Low-Voltage Power Distribution and Electrical Installation Technology

	Introduction	1/2
Protecting	Air Circuit Breakers	1/1
	Molded Case Circuit Breakers	2/1
	Miniature Circuit Breakers	3/1
	Residual Current Protective Devices/Arc Fault Detection Devices (AFDDs) _	4/1
	Switching Devices	5/1
	Overvoltage Protection Devices	6/1
	Fuse Systems	7/1
Protecting, Switching and Isolating	Switch Disconnectors	8/1
Switching and Isolating	Transfer Switching Equipment and Load Transfer Switches	9/1
Measuring and Monitoring	Measuring Devices, Power Monitoring and Digitalization Solutions	_ 10/1
	Monitoring Devices	_ 11/1
Distribution	Transformers, Power Supply Units and Socket Outlets	_ 12/1
	Busbar Systems	_ 13/1
	Terminal Blocks	_ 14/1
	Power Distribution Boards, Motor Control Centers and Distribution Boards	. 15/1
	Busbar Trunking Systems	_ 16/1
	System Cubicles, System Lighting and System Air-Conditioning	_ 17/1
	Appendix	A/1

__

A



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



JVL		2
3VL	Locking provisions and interlocks	2 2
	Auxiliary release, closing coil	2
	Motor operators and manual operators	2
	Accessories for connection and insulation	2
	Electronic trip unit ETU and accessories	2
	Guide frame	2
	Accessory options	2
	Structure of the article numbers	2
	System overview	2
3VA27		2
	Cover frame and mounting	2
	Locking, blocking and interlocking	2
	Communication	2
	Residual current devices RCD	2
	Plug-in and withdrawable technology	2
	Connection technology	2
	Motor operators	2
	Manual operators	2
	Internal accessories	2
	Structure of the article numbers	2
	System overview	2
3VA10 – 3VA26		2
	Online configurator highlights	2
	Trip units	2
	3VA2 molded case circuit breakers up to 1600 A	2
	3VA1 molded case circuit breakers, switch disconnectors up to 1000 A	
	Molded case circuit breakers, switch disconnectors and accessories	
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

- 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 by entering this web address incl. article number www.siemens.com/product?Article No.



Configurators

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

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

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

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



The fast track to the experts

Contact persons in your region

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

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

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

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

... can be found in our online services

Commissioning + operation



SENTRON powerconfig

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

Free download SENTRON powerconfig via www.siemens.com/powerconfig

Free download SENTRON powerconfig mobile via App Store and Play Store



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 under: 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)
- Communication with SENTRON components (LV-COM)
- 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 communication system
- Rated current range of 25 to 1250 A



3VA27 molded case circuit breaker

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

Special features

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

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

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 operator	-	-	-	-	-	-	
Motor operator (MO), integrable	-	-	-	-	-	-	
Locking, blocking and interlocking			_				
Residual current device (mounted onto the side)	-	-	-	-	-	-	
Residual current device (mounted underneath)	-			-	-	-	
Communication link	-	-	-	-	-	-	
EFB300	-	-	-	-	-	-	
Testing and commissioning devices	-	-	-	-	-	-	
Cover frame							
DIN-rail adapter			-	-	-	-	
Busbar adapter						-	

■ Available — Not available/not present

















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

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

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

Technical specifications

										1		
				3VA10)		3VA11	1		3VA1	1	
Electrical characte	eristics according to IEC 60947-2											
Number of poles				3/4-pole			1-pole			2-pole		
Size		А		100			160			160		
Rated current I _n at	50 °C ambient temperature	А		16 100)		16 160)		16 160)	
Rated operational v	voltage U _e 50/60 Hz AC	V		690			415			415		
Rated insulation vo		V		800			500			500		
Rated impulse with	nstand voltage $U_{ m pulse}$	kV		8			8			8		
Use in IT networks (breaking capacity	acc. to IEC 60947-2, Annex H)	V	•			•			•			
Frequency		Hz		0 400	_		0 400			0 400	_	
Breaking capacity	(line protection)		В	N	S	N	S	М	N	S	М	
Rated ultimate sh	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	-	-	-	-	-	-	-	-	-	
	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	A	mm	76.2 ((3P) 101.	.6 (4P)		25.4			50.8		
A - C - 8	В	mm	0.2 (130	(,		130			130		
B B B B B B B B B B B B B B B B B B B	C	mm		70			70			70		
	D	mm		88			88			88		

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

²⁾ For $I_n = 630 \text{ A}/800 \text{ A}$ 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					3VA12			3VA13			3VA14				3VA15				
			pole			3/4-pole				pole				pole			3/4-pole		
			60			250				00			63				1000		
			. 160		1	60 25	0		320.	400				630			630 1000)	
		6	90			690			69	90			69	90			690		
		8	00			800			80	00		800				800			
		;	8			8		8					8	3		8			
		I				•								•			≤500		
		0	400			0 400			0	400			0	400			0 400		
	N	S	М	Н	S	М	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	110	150	
	25	36	55	70	36	55	70	36	55	70	110	36	55	70	110	55	70	110	
	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	
						(2.5)	(45)		100 /==:	140:4:	,		100 /==:	14064			0 (00)	(40)	
	76.2 (3P) 101.6 (4P)				105	(3P) 140) (4P)		138 (3P)		')		138 (3P)		')	210	0 (3P) 280	(4P)	
			30			158				48				18		320			
			70			70				10				10			120		
		8	38			88			13	37			13	37		253			

System overview, page 2/20

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

Application

		b		The state of the s	
		3VA10	3VA11	3VA11	
Electrical characteristics 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	
3VA1 molded case circuit breakers for line protection, standard ap	plications (IEC	60947-2)			
Service life/endurance (operating cycles)					
Mechanical (CLOSE-OPEN cycles)		20000	20000	20000	
Electrical 380 415 V I _n		9000	9000	9000	
I _n /2		15000	15000	15000	
690 V		6300	6300	6300	
Trip Units					
TM210 FTFM		•		•	
TM220 ATFM		-	-	-	
TM240 ATAM		-	-	-	
3VA1 molded case circuit breakers for starter protection (IEC 6094)	7-4-1 standards	and specifications acc. to	AC-1)		
Rated current I _n at 50 °C ambient temperature	A	-	-	-	
Service life/endurance (operating cycles)					
Mechanical (CLOSE-OPEN cycles)		-	-	-	
Electrical 380 415 V		-	-	-	
Trip Units					
TM120M AM		-	-	-	
Switch disconnectors (IEC 60947-3)					
Electrical characteristics according to IEC 60947-3					
Rated uninterrupted current I _u at 50 °C ambient temperature	Α	-	-	-	
Rated operational voltage $U_{\rm e}$ 50/60 Hz AC	V	-	-	-	
Rated operational voltage $U_{\rm e}$ DC	V	-	-	-	
Rated conditional short-circuit current $I_{\rm q}$ with upstream 3VA1 circuit breaker	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 character	istics according to IEC 60947-2															
Number of poles				3/4-	pole			3	/4-pol	е			3	8/4-pol	le	
Size		А		10	00				160			250				
Rated current I _n at 50	0 °C ambient temperature	А		25	. 100			2!	5 16	50		160 250				
Rated operational vo	oltage U _e 50/60 Hz AC	V	V 690					690						690		
Rated insulation volt	age U _i	V		80	00		800							800		
Rated impulse withs	tand voltage U _{nulse}	kV	v 8					8						8		
Use in IT networks	cc. to IEC 60947-2, Annex H)	V			•		•					•				
Frequency		Hz		50	160				50/60					50/60	1	
Breaking capacity (line protection)		М	Н	С	L	М	Н	С	L	Е	М	Н	С	L	E
Rated ultimate sho	rt-circuit breaking capacity I _{cu}															
50/60 Hz AC	220 240 V	kA	85	110	150	200	85	110	150	200	-	85	110	150	200	_
	380 415 V	kA	55	85	110	150	55	85	110	150	200	55	85	110	150	200
	440 V	kA	55	85	110	150	55	85	110	150	-	55	85	110	150	-
	500 V	kA	36	55	85	100	36	55	85	100	-	36	55	85	100	-
	690 V	kA	2	2	2	25	2.5	2.5	2.5	25	85	3	3	3	25	85
DC	125 V (1 switching pole)	kA	_	_	-	_	_	_	_	_	_	_	_	_	_	_
	250 V (2 switching poles)	kA	_	_	-	_	-	_	_	_	-	-	_	_	_	_
	500 V (3 switching poles)	kA	_	-	-	_	-	_	_	_	-	-	_	_	_	_
	600 V (4 switching poles)	kA	-	-	-	-	-	-	-	_	-	-	-	-	-	_
Rated service short	-circuit breaking capacity I _{cs}															
50/60 Hz AC	220 240 V	kA	85	110	150	200	85	110	150	200	-	85	110	150	200	_
	380 415 V	kA	55	85	110	150	55	85	110	150	200	55	85	110	150	200
	440 V	kA	55	85	110	150	55	85	110	150	-	55	85	110	150	_
	500 V	kA	36	55	85	100	36	55	85	100	-	36	55	85	100	_
	690 V	kA	2	2	2	18	2.5	2.5	2.5	18	65	3	3	3	18	65
DC	125 V (1 switching pole)	kA	-	-	-	-	-	-	-	-	-	-	-	-	-	_
	250 V (2 switching poles)	kA	-	-	-	-	-	-	-	-	-	-	-	-	-	_
	500 V (3 switching poles)	kA	-	-	-	-	-	-	-	_	-	-	-	-	-	_
	600 V (4 switching poles)	kA	-	-	-	-	-	-	-	_	-	-	-	-	-	-
Dimensions																
→ D →	A	mm	10)5 (3P)	140 (4	1P)		105 (3	P) 14	10 (4P)		105 (3	3P) 14	40 (4F)
A C S	В	mm		18	31				181					181		
NSEO_01189	С	mm		8	6				86					86		
	D	mm		10	07				107					107		

■ Available

- Not available/not present











		3'	VA2	3			3	VA2	4			3VA25			3VA26		3VA27		
		3	8/4-pole	2			3	3/4-pole	9			3/4-pole			3/4-pole			3/4-pole	_
			400					630				1000			1250			1600	
		25	0 40	00			40	00 63	30		6	530 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	
	M H C L 85 110 150 200 55 85 110 150 2 55 85 110 - 36 55 85 -			Е	М	Н	С	L	Е	М	Н	С	М	Н	С	М	Н	С	
8	35	110	150	200	-	85	110	150	200	-	85	110	200	85	110	200	100	150	200
5	55	85	110	150	200	55	85	110	150	200	55	85	110	55	85	110	55	85	110
5	55	85	110	-	-	55	85	110	-	-	55	85	110	55	85	110	55	85	100
3	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
	_	_	_	_	_	_	_	_	_	_	-	_	-	-	_	_	-	_	_
	-	_	_	_	-	_	-	-	-	_	-	_	-	-	-	_	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	35	110	150	200	-	85	110	150	200	-	85 110 150			85	110	150	100	150	200
5	55	85	110	150	200	55	85	110	150	200	55	85	85	55	85	85	55	85	110
5	55	85	110	-	-	55	85	110	-	-	55	70	70	55	70	70	55	85	100
3	36	55	65	-	-	36	55	85	-	-	36	55	65	36	55	65	36	55	63
	5	5	5	18	65	6	6	6	18	65	19	19	19	19	19	19	25	36	36
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		120 /2	(D) 10	4 (4D)		138 (3P) 184 (4P)			210	(20) 200	(4D)	210	(20) 200	(4D)	210	(20) 200	(4D)		
		138 (3	P) 18 248	4 (4P)			138 (3	248	4 (4P)		210	(3P) 280 320	(47)	210	(3P) 280 (320	(4P)	210	(3P) 280 291	(4P)
	110 110						120			120		171 (handle ope	rating					
	110					110				120			120			mechanism) 183 (stored energy operating mechanism)			
			137					137				253			253		225		

3VA2 molded case circuit breakers up to 1600 A

Application







			3VA20	3VA21	3VA22	
Electrical characterist	ics according to IEC 60947-2	:				
Number of poles			3/4-pole	3/4-pole	3/4-pole	
Size		А	100	160	250	
Rated current I _n at 50 °C	C ambient temperature	А	25 100	25 160	160 250	
Service life/endurance	e (operating cycles)					
Mechanical (OPEN-CLO	SE 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 cire	cuit breakers for motor/star	ter protection (IEC 6	60947-4-1 standards and sp	pecifications acc. to AC-1)		
Rated current I _n at 50 °c	C ambient temperature	А	-	25 100	160 200	
Service life/endurance	e (operating cycles)					
Mechanical (CLOSE-OP	EN 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) 3000 (500 A)	4600	-	2000
	3000 (3007)			
		_	_	-
	-		_	_
		•	_	_
			_	_
	-	- -		
		_		
_		-	_ _	
_	-	- -	_ _	
-		_	_	
-	-	-	-	•

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	ETUSSOLSI I /A t/s L=1 t/s t/s t/s l=1 t/	ETUSSOM LSI A ESC D COM OK 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ETUSSOM LSIG A ESC D ATT A ES
Due to etimo franctica	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	24 V module for continuous power
			power supply (also without primary current through the molded case circuit breaker)	supply (also without primary current through the molded case circuit breaker)
External function box				
	-	EFB300 external function box for connection to the ETU	EFB300 external function box for connection to the ETU	EFB300 external function box for connection to the ETU
Communication module				
	-	-	COM060 communication module	COM060 communication module
Data concentrator				
	-	-	COM800/COM100 data concentrator with interface to PROFIBUS PROFINET Modbus RTU Ethernet (Modbus TCP)	COM800/COM100 data concentra- tor 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	TM210	TM220	TM240
	AM	FTFM	ATFM	ATAM
Protections				
Starter protection		-	-	-
Line protection	-			
Version available with				
1-pole and 2-pole breakers	-	•	-	-
3-pole breaker				
4-pole breaker	-		•	
Available protection parameters				
I _r adjustable	-	-	•	
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

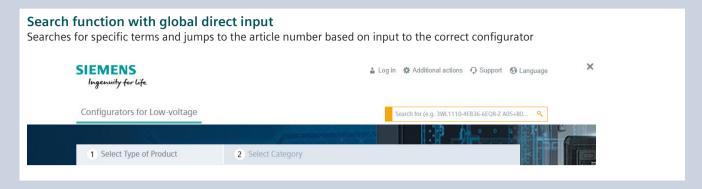
	ETU310M	ETU320	ETU330	ETU340	ETU350	ETU350M	ETU550	ETU550M	ETU560	ETU850	ETU860	ETU860M
	I	LI	LIG	ELISA®	LSI	LSI	LSI	LSI	LSIG	LSI	LSIG	LSIG
Protection												
Starter protection		-	-	-	-	-	-	-	-	-	-	-
Motor protection	-	-	-	-	-		-		-	-	-	
Line protection	-					-		-				-
Generator protection	-			-		-		-				-
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	I ² t	I ⁴ t	I ² t							
I _r	-											
t_r at 6 × I_r	-			-		-		-				-
$t_{\rm c}$	-	-	-	-	-		-		-	-	-	
$t_{\rm p}$	-	-	-	-	-	-	-		-	-	-	
Thermal image												
Thermal image can be switched on/off	-	-	-	-	-	-	•	-	•	•	•	-
I _{sd}	-	-	-	-								
$t_{\rm sd}$ at 8 × $I_{\rm r}$	-	-	-	-								
Characteristic in S range: I ² t _{sd}	-	-	-	-		-		-				-
Characteristic in S range: selectable $l^2t_{\rm sd}/t_{\rm sd}$	-	-	-	-	-	-	•	-	•	•	•	-
I _i												
I _N 1)	-					-		-				-
Iq	-	-		-	-	-	-	-		-		
$t_{\rm q}$ at 2 × $I_{\rm q}$	-	-		-	-	-	-	-		-		
Characteristic in G range: I ² t _q	-	-	-	-	-	-	-	-		-		
Characteristic in G range: selectable <i>I</i> ² t _g /t _g	-	-	-	-	-	-	-	-	•	-	•	•
Ground-fault alarm function	-	-	-	-	-	-	-	-		-		
Blocking protection	-	-	-	-	-	-	-	-	-	-	-	
ZSI in combination with an EFB external function box	-	•	•	•	•	•	•	•	•	•	•	•

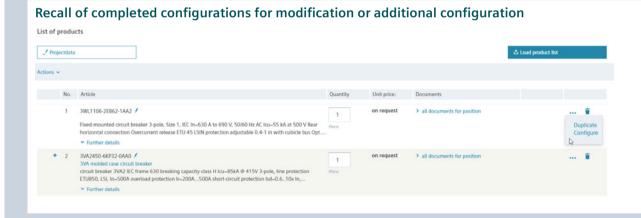
¹⁾ Available in a version with external current transformer for N conductor or 4-pole breaker

- 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





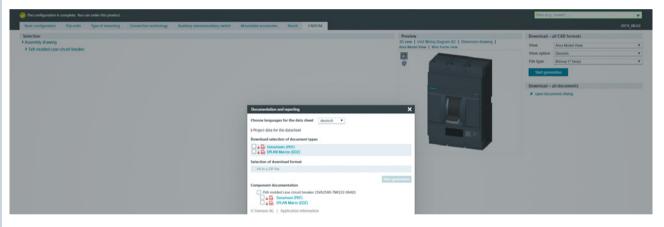


www.siemens.com/lowvoltage/3va-configurator and www.siemens.com/lowvoltage/3va27-configurator

Visualization of the internally mountable accessories (slot assignment) * The configuration acceptant. You can what the product.



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

Withdrawable unit,

Circular

conductor

terminal

ಠಠಠ

complete kit

Supplementary accessories

tion module





Door

feedthrough

Connection accessories



signaling

switch

concentrator



Cylinder lock

adapter



Crank

Fixed-mounted

complete kit

Plug-in unit,

Main conductor connection





connectors

broadened







right-angled

Nut keeper kits,

Auxiliary

connector

circuit

Insulation accessories

connectors

Note:

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

Auxiliary releases/auxiliary switches



Mountable accessories



Additional circuit breaker accessories



Mechanical interlocking mechanisms



Note:

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

Structure of the article numbers

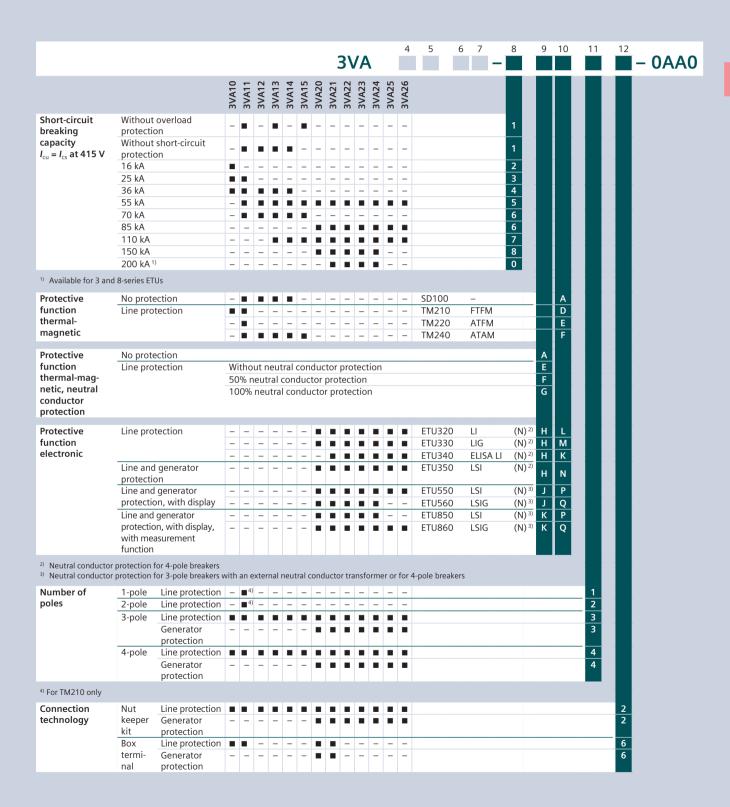
Basic configuration for line and generator protection

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	V	A	4	5	6	7	ı –	8	9	10	11	12	_	0A	Α0
Trip units	Thermal-magn	netic													2												
	Electronic																										
			3VA10	3VA11	3VA12	3VA13	3VA14	3VA15	3VA20	3VA21	3VA22	3VA23	3VA24	3VA25	3VA26	П	ı										
Size (SZ)	100 A			-	-	-	-	-		-	-	-	-	-	-	0		Ī									
	160 A		-		-	-	-	-	-		-	-	-	-	-	1											
	250 A		-	-		-	-	-	-	-		-	-	-	-	2											
	400 A		-	-	-		-	-	-	-	-		-	-	-	3											
	630 A		-	-	-	-		-	-	-	-	-		-	-	1 2 3 4 5											
	1000 A		-	-	-	-	-		-	-	-	-	-	-	-	5											
	1250 A		_	-	-	_	_	-	-	_	-	_	-	-		6											
Max. rated	Line	16 A			-	_	_	-	_	_	-	-	-	-	-		9	6									
current I _{n max}	protection	20 A			-	-	-	-	-	-	-	-	-	-	-		2	0									
		25 A			-	-	-	-			-	-	-	-	-		2	0 5 2 0									
		32 A		•	-	-	-	-	-	-	-	-	-	-	-		3	2									
		40 A	•	•	-	-	-	-	-		-	-	-	-	-		4	0									
		50 A			-	-	-	-	-	-	-	-	-	-	-		5	0									
		63 A	•		-	-	-	-		•	-	-	-	-	-		6	3 0									
		80 A			-	-	-	-	-	_	-	-	-	-	-		8	0									
		100 A	•		-	-	-	-	-	-	-	-	-	-	-		1	0									
		125 A 160 A	-		-	-	-	-	-	-1) -	-	-	-	_		1	4									
		200 A	Ē	-	i	-	_	-	+			H	-	+=			2	1									
		250 A	-		-	-	-	_	+=	+-	1) 🔳	-	-	_		2	5									
		320 A	-	-	Ξ		-	-	-	-	-	-	-	-	-		3	2									
		400 A	-		-		-	-	-	-	-	= 1)	=	-	-		4	6 0 5 2									
		500 A	-	-	-	-		-	-	-	-	-	= 2) _	-		5	0									
		630 A	-	-	-	-			-	-	-	-			-		6	0 3									
		800 A	-	-	-	-	-		-	-	-	-	-		-		8	0									
		1000 A	-	-	-	-	-		-	-	-	-	-		-		1	0									
		1250 A	-	-	-	-	-	-	-	-	-	-	-	-			1	2									
	Generator	25 A	-		-	-	-	-			-	-	-	-	-		2	0 2 5 0									
	protection	40 A	-		-	-	-	-	-	-	-	-	-	-	-		4	0									
		63 A	-	-	-	-	-	-		-	-	-	-	-	-		6	3 0									
		100 A	-	_	-	-	-	-	-		_	-	-	-	-		1	0	-								
		160 A 250 A	-		-	-	-	-	-	-	-	_	-	-	-		1	6 5									
		400 A	-	-	-	-	-	-	-	-	-		_	H	_		4	0									
		500 A	Ē	-	-	-	-	_		Ē	-	-	2		-		5	1 0									
		630 A	-		_	-	-	-	-		-				_		6	3									
		800 A	-	-	-	-	-	_	-	-	-	-	Ε.		-		8	0 3 0									
		1000 A	-	-	-	-	-	-	-	-	-	-	-		-		1										
		1250 A	-	-	-	-	-	-	-	-	-	-	-	-			1	2									
	Switch	63 A	-		-	-	-	-	-	-	-	-	-	-	-		6	0 2 3 0 2 6 5									
	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 3									
		630 A	-	-	-	-		-	-	-	-	-	-	-	-		6	3									

¹⁾ Rated current not available with ETU340 ELISA LI

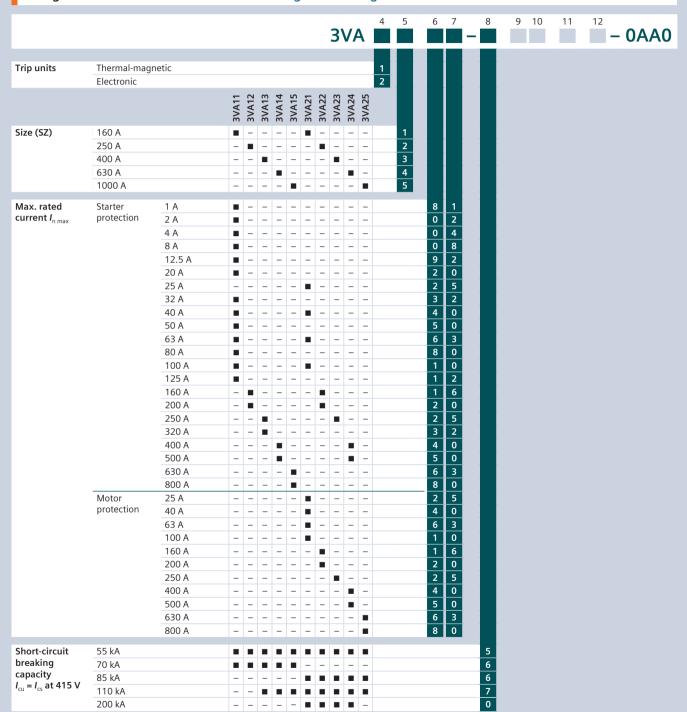
²⁾ With ETU 5-series and 8-series, utilization category B and ETU340 ELISA LI only

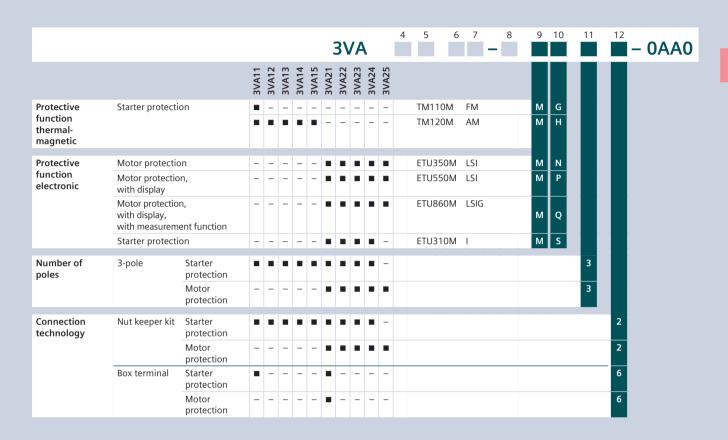


Structure of the article numbers

Basic configuration for starter and motor protection

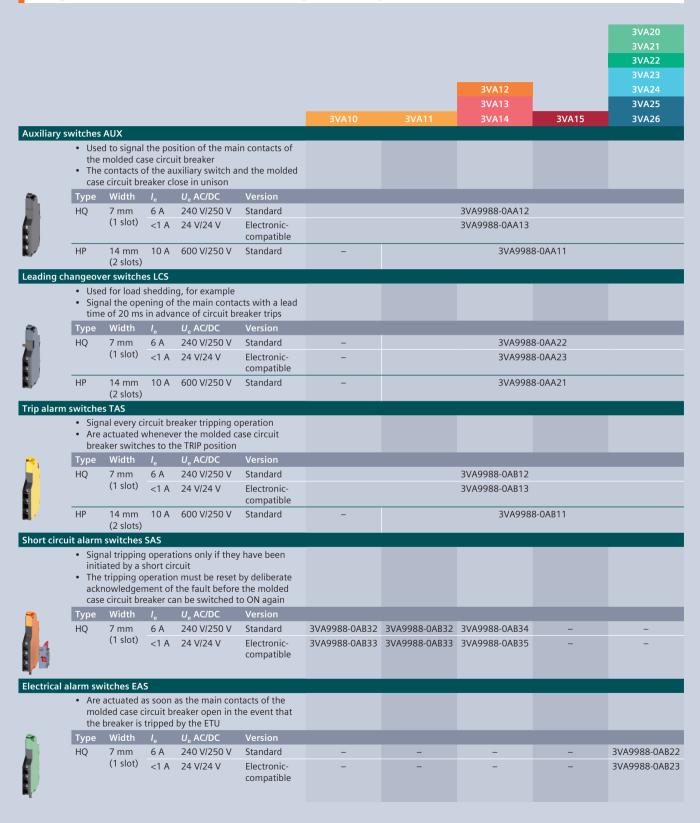
The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator





Internal accessories

Auxiliary switches and alarm switches



Auxiliary releases

				3VA10		
				3VA11	3VA20	
				3VA12	3VA21	
				3VA13	3VA22	
				3VA14	3VA23	3VA25
				3VA15	3VA24	3VA26
Shunt trips left S	STL					
		te-controlled tripping of	the molded case circuit breaker			
	 Have particula 	rly low power consump	tion			
		able for electrical interlo				
	Version	Ս _e 50/60 Hz AC	U _e DC			
1555	Standard	-	12 V		3VA9988-0BL10	
		24 V	24 30 V		3VA9988-0BL30	
		48 60 V	48 60 V		3VA9988-0BL31	
		110 127 V 208 277 V	110 127 V		3VA9988-0BL32	
		380 600 V	220 250 V		3VA9988-0BL33 3VA9988-0BL20	
	Electrical (EI)	360 600 V	24 V		3VA9988-0BM10	
Shunt trips flexib			24 V		3VA9900-00IVI 10	
briante trips flexit		te-controlled tripping of	the molded case circuit breaker			
	Flexible install					
ASST.	U _e 50/60 Hz AC	U _e DC				
14.55	24 V	-		-	3VA9988-0BA20	-
Maria San Carlo Ca	48 60 V	-		-	3VA9988-0BA21	-
-	110 127 V	-		-	3VA9988-0BA22	-
	208 277 V	-		-	3VA9988-0BA23	-
	380 500 V	-		-	3VA9988-0BA24	-
	600 V	-		-	3VA9988-0BA25	-
Universal release	es UNI					
		and the contract with the second contract and	la			
SKC		of shunt trip and under	voltage release			
	• Combination of $U_{\rm e}$ 50/60 Hz AC	U _e DC	voltage release		21/40009 08011	_
		U _e DC	voltage release		3VA9908-0BD11	
		U _e DC 12 V 24 V	voltage release		3VA9908-0BD12	
Undervoltage re	U _e 50/60 Hz AC –	U _e DC	voltage release			
Undervoltage re	U _e 50/60 Hz AC - leases UVR • Trip the molde operational vo	U _e DC 12 V 24 V 48 V ded case circuit breaker in oltage of a monitored circ	the event that the rated cuit drops below a minimum		3VA9908-0BD12	
Undervoltage re	U _e 50/60 Hz AC - leases UVR • Trip the molde operational vo permissible lim	U _e DC 12 V 24 V 48 V de case circuit breaker in oltage of a monitored cirnit or fails altogether	the event that the rated		3VA9908-0BD12	
Undervoltage re	U _e 50/60 Hz AC - leases UVR • Trip the molde operational vo	U _e DC 12 V 24 V 48 V de case circuit breaker in oltage of a monitored cirnit or fails altogether U _e DC	the event that the rated		3VA9908-0BD12 3VA9908-0BD13	
Undervoltage re	U _e 50/60 Hz AC - leases UVR • Trip the molde operational vo permissible lim	U _e DC 12 V 24 V 48 V de case circuit breaker in oltage of a monitored cirnit or fails altogether U _e DC 12 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10	
Undervoltage re	U _e 50/60 Hz AC - leases UVR • Trip the molde operational vo permissible lim	U _e DC 12 V 24 V 48 V de case circuit breaker in oltage of a monitored cirnit or fails altogether U _e DC 12 V 24 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11	
Undervoltage re	U _e 50/60 Hz AC - leases UVR • Trip the molde operational vo permissible lim	U _e DC 12 V 24 V 48 V de case circuit breaker in oltage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12	
Undervoltage re	U _e 50/60 Hz AC - leases UVR • Trip the molde operational vo permissible lim	U _e DC 12 V 24 V 48 V de case circuit breaker in oltage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V 60 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB13	
Undervoltage re	U _e 50/60 Hz AC - leases UVR • Trip the molde operational vo permissible lim	U _e DC 12 V 24 V 48 V 2d case circuit breaker in oltage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V 60 V 125 127 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB13 3VA9908-0BB14	
Undervoltage re	U _e 50/60 Hz AC - leases UVR • Trip the molde operational vo permissible lim	U _e DC 12 V 24 V 48 V 26 d case circuit breaker in oltage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V 60 V 125 127 V 220 230 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB13 3VA9908-0BB14 3VA9908-0BB15	
Undervoltage re	U _e 50/60 Hz AC - leases UVR • Trip the molde operational vo permissible lim	U _e DC 12 V 24 V 48 V 2d case circuit breaker in oltage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V 60 V 125 127 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB13 3VA9908-0BB14	
Undervoltage re	Ileases UVR • Trip the molde operational vo permissible lim U _e 50/60 Hz AC	U _e DC 12 V 24 V 48 V 26 d case circuit breaker in oltage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V 60 V 125 127 V 220 230 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB13 3VA9908-0BB14 3VA9908-0BB15 3VA9908-0BB16	
Undervoltage re	leases UVR • Trip the molde operational vo permissible lim U _e 50/60 Hz AC -	U _e DC 12 V 24 V 48 V 26 d case circuit breaker in oltage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V 60 V 125 127 V 220 230 V 250 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB13 3VA9908-0BB14 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB20	
Undervoltage re	Ileases UVR • Trip the molde operational vo permissible lin U _e 50/60 Hz AC -	U _e DC 12 V 24 V 48 V 26 d case circuit breaker in oltage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V 60 V 125 127 V 220 230 V 250 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB13 3VA9908-0BB14 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB20 3VA9908-0BB21	
Undervoltage re	leases UVR • Trip the molde operational vo permissible lin U _e 50/60 Hz AC - 24 V 48 V 60 V	U _e DC 12 V 24 V 48 V 26 d case circuit breaker in oltage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V 60 V 125 127 V 220 230 V 250 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB13 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB20 3VA9908-0BB21 3VA9908-0BB21	
Undervoltage re	leases UVR • Trip the molde operational vo permissible lin U _e 50/60 Hz AC - 24 V 48 V 60 V 110 V	U _e DC 12 V 24 V 48 V 2d case circuit breaker in oltage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V 60 V 125 127 V 220 230 V 250 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB13 3VA9908-0BB13 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB20 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB22	
Undervoltage re	leases UVR • Trip the molde operational vo permissible lin U _e 50/60 Hz AC - 24 V 48 V 60 V 110 V 120 127 V	U _e DC 12 V 24 V 48 V 2d case circuit breaker in Itage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V 60 V 125 127 V 220 230 V 250 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB20 3VA9908-0BB21 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB23	
	U _e 50/60 Hz AC	U _e DC 12 V 24 V 48 V ed case circuit breaker in litage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V 60 V 125 127 V 220 230 V 250 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB14 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB20 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB24	
	U _e 50/60 Hz AC	U _e DC 12 V 24 V 48 V ed case circuit breaker in itage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V 60 V 125 127 V 220 230 V 250 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB20 3VA9908-0BB20 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB25 3VA9908-0BB25	
	leases UVR • Trip the molde operational vo permissible lim U _e 50/60 Hz AC - 24 V 48 V 60 V 110 V 120 127 V 208 230 V 380 400 V 440 480 V ces for undervoltage U _e 50/60 Hz AC	U _e DC 12 V 24 V 48 V ed case circuit breaker in Itage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V 60 V 125 127 V 220 230 V 250 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB13 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB20 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB25 3VA9908-0BB25 3VA9908-0BB25	
Time-delay devid	U _e 50/60 Hz AC	U _e DC 12 V 24 V 48 V 26 d case circuit breaker in oltage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V 60 V 125 127 V 220 230 V 250 V releases U _e DC 110 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB13 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB20 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB25 3VA9908-0BB25 3VA9908-0BB27	
Time-delay devid	leases UVR • Trip the molde operational vo permissible lim U _e 50/60 Hz AC - 24 V 48 V 60 V 110 V 120 127 V 208 230 V 380 400 V 440 480 V ces for undervoltage U _e 50/60 Hz AC	U _e DC 12 V 24 V 48 V ed case circuit breaker in Itage of a monitored cirnit or fails altogether U _e DC 12 V 24 V 48 V 60 V 125 127 V 220 230 V 250 V	the event that the rated		3VA9908-0BD12 3VA9908-0BD13 3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB12 3VA9908-0BB13 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB20 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB25 3VA9908-0BB25 3VA9908-0BB25	

 $^{^{\}mbox{\scriptsize 1)}}\,$ 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
		With	Without	3VA9157-0EK17	3VA9257-0EK17	3VA9267-0EK17	3VA9467-0EK17	-
			With	3VA9157-0EK27	3VA9257-0EK27	3VA9267-0EK27	3VA9467-0EK27	-
Door mounte	d rotary operators v	with tolerance o	compensation					
	With mountingHandle with ma	sking plate 75 × for 3VA15/3VA2 ction IP65	ensation 75 mm					
	Version	Illumination kit	Door interlock					
7	Standard (gray)	Without	With	3VA9157-0FK21	3VA9257-0FK21	3VA9267-0FK21	3VA9467-0FK21	3VA9687-0FK21
		With	With	3VA9157-0FK23	3VA9257-0FK23	3VA9267-0FK23	3VA9467-0FK23	3VA9687-0FK23
7	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 mountee	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 mounte	d rotary operators v	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

							21/412	
						3VA20	3VA13 3VA14	3VA15
				21/410		3VA20 3VA21	3VA14 3VA23	3VA15 3VA25
				3VA10 3VA11	3VA12	3VA21	3VA23 3VA24	3VA25 3VA26
Side wall mou	inted rotary operat	·orc		SVATI	3VA12	3VA22	3VA24	3VA20
Side Wall mou	 Rotary operator 		m m					
	 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	inted 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	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	-	-
Extended DIN	rail for N/PE termi	nals						
	Version	Rated current						
	For mounting bracket	≤250 A		3VA9987-0GL30	3VA9987-0GL30	3VA9987-0GL30	-	-
Auxiliary swit	ch modules for rot	ary operator						
	Version							
(200	2× leading to "ON"			3VA9257-0GX10	3VA9257-0GX10	3VA9467-0GX10	3VA9467-0GX10	-
1000	2× leading to "ON" 1× leading to "OFF			-	-	3VA9467-0GX20	3VA9467-0GX20	-
Mounting ada	pters for side wall	mounted rotar	y operators					
5	Version							
	Necessary accesso 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 w	hen cabinet door is open					
	Version						
	Standard		3VA9287-0GC01	3VA9287-0GC01	3VA9487-0GC01	3VA9487-0GC11	3VA9687-0GC01
	(gray)	<u> </u>	21/40207.0000	21/40207.0000	21/40/407 0000	21/40/407 00015	21/40/07 00/05
	EMERGENCY-OFF (red/yellow)		3VA9287-UGCU5	3VA9287-UGCU5	3VA9487-UGCU5	3VA9487-0GC15	3VA9687-UGCU5
Handles	(reary energy						
	With masking p	late					
	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					
						21/40/497 05/510	21/40007 05610
Shafts			-	-	-	3VA9487-0SC10	3VA9987-05C10
Sildits	Туре	Length					
	8 × 8 mm	300 mm		8110190	0-2WA00		_
	0 × 0 111111	600 mm			0-2WB00		_
	12 × 12 mm	300 mm	_	_	_	_	8UD1900-4WA00
97	12 ^ 12 111111	600 mm	_	_	_	_	8UD1900-4WB00
Adapters for s	hafts						0021300 111200
	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							
	Type			0110100	0.3H400		
	8 × 8 mm			8UD190	U-2HAUU		_
	12 × 12 mm		-	-	-	-	8UD1900-4HA00

				3VA13	
			3VA20	3VA14	3VA15
	3VA10		3VA21	3VA23	3VA25
	3VA11	3VA12	3VA22	3VA24	3VA26
Mounting tolerance compensations					
Туре					
8 × 8 mm		8UD190	0-2GA00		-
12 × 12 mm	-	-	-	-	8UD1900-4GA00
Fixing brackets for shafts					
44 A					
	3VA928	7-0GA80	3VA948	7-0GA80	3VA9687-0GA80
Variable depth adapters					
Туре					
8 × 8 mm		3VA948	7-0GB10		-

System overview, page 2/20

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						
100 mm	Use	Key					
	For door mounted rotary operator and side wall mounted rotary operator (in the masking plate), only for	1	8UD1900-0MB01		-	8UD1900-0MB01	-
		2	8UD1900-0NB01		-	8UD1900-0NB01	-
		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				3VA9960-0VL40		
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

2

2/33

System overview, page 2/20 Siemens LV 10 · 04/2022

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 operators (MO310)



 Cover size 45 mm 	1					
Addressable via control signals	Isolating features in accordance with IEC/EN 60947-1	Make time, typ For 3VA1	oically For 3VA2	Break time, typ For 3VA1	pically For 3VA2	Rated operational power
•	•	<300 ms	-	<300 ms	-	250 W, max. 500 W (60 ms)

Motor operators without stored energy operators (MO320)



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

Spare parts kit for MO320 nev

Scope of supply

Mounting plate, plug

Motor operators with stored energy operators (SEO520)

- Synchronizable motor operator with optional communication link
- · Has two spring assemblies that are used to switch the 3VA2 molded case circuit breaker on and off quickly. This new principle in the MCCB area ensures fast, reliable and easily controllable switching sequences, especially in load transfer switching applications.
- The connection with the COM060 communication module, via a plug-in connection, integrates the SEO520 into the communication environment of the 3VA molded case circuit breakers and ensures that the molded case circuit breaker can also be switched via the supported communication networks and the SENTRON powerconfig and SENTRON powermanager software packages.

ount of the fact switching times, the SEO520 cannot be used with a leading char



- Note: On account of the last switching times, the 320320 cannot be used with a leading changeover switch Lcs.									
Addressable via	Isolating features in	Make time, typically		Break time, typically		Rated			
control signals	accordance with IEC/EN 60947-1	For 3VA1	For 3VA2	For 3VA1	For 3VA2	operational power			
•	•	-	<80 ms	-	<80 ms	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 new Scope of supply

Mounting plate, plug, SLC adapter

Mechanical operating cycles counters (for installation in the SEO520)



For installation in the SEO520	3VA9987-0HX10



Mounting	Article No.
For installation of cylinder locks in the SEO520	3VA9980-01F30



- · 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

Article No.

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

¹⁾ Circuit breakers should be of product version ≥ *E06*. Product versions < *E06* may be subject to a reduced service life (mechanical operating cycles). 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



- For mounting onto the circuit breaker
- 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				
	Connection options	Scope of supply	Cable cross-section, copper stranded	
###	0 0	3 single terminals	1.5 70 mm²	
(A) (B) (B)			6 120 mm²	
			25 185 mm²	
			50 185 mm²	
			35 300 mm²	
	0 0	4 single terminals	1.5 70 mm²	
			6 120 mm²	
			25 185 mm²	
			50 185 mm²	
			35 300 mm²	
Nut keeper kits				
	Connection options	Scope of supply	Max. tap width	Max. tap thickness
Million .	0 0	3 terminals	17 mm	6.5 mm
0.0.01			25 mm	8 mm
			35 mm	10 mm
		Nut keeper kit for 3-pole breakers, 1 terminal cover	50 mm	25 mm
	0 0	4 terminals	17 mm	6.5 mm
2-2-2-2			25 mm	8 mm
			35 mm	10 mm
		Nut keeper kit for 4-pole breakers, 1 terminal cover	50 mm	28 mm
Circular conducto	or terminals, 1 cable			
	Connection options	Scope of supply	Cable cross-section	Copper/aluminum stranded ³⁾ Cu Al
# # # # # # # # # # # # # # # # # # #	0 0	3 single terminals	1.5 10 mm²	
ଗ ଗ ଗ			1.5 50 mm²	-
			10 95 mm²	
			16 185 mm²	
			35 185 mm²	
			50 300 mm²	
	0 0	4 single terminals	1.5 10 mm²	-
តា តា តា តា		3	1.5 50 mm²	
			10 95 mm²	
			16 185 mm²	
			35 185 mm²	
			50 300 mm²	i

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

				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	-	-	-	-
	-	-	-	3VA9483-0JA13 1)	-
3VA9154-0JA11	-	-	-	-	-
	3VA9254-0JA11	3VA9164-0JA12	3VA9164-0JA12	-	-
	-	3VA9264-0JA12	3VA9264-0JA12	-	-
-	3VA9254-0JA12	-	-	-	-
-	-	-	-	3VA9484-0JA13 1)	-
3VA9113-0QA00	-	-	-	-	-
-	3VA9213-0QA00	3VA9203-0QA00	3VA9203-0QA00	-	-
-	-	-	-	3VA9403-0QA00	_
=	_	_	_		3VA9603-0QA00
					·
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	_	_	_	



- For mounting onto the circuit breaker
- 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

Circular conductor	terminal	s with control wir	e taps, 1 cable 2)			
	Conne	ction options	Scope of supply	Cable cross-section	Copper/aluminum stranded ³⁾ Cu Al	
	0	2	3 single terminals	1.5 10 mm²	-	
0 0 0				1.5 50 mm²	-	
				10 95 mm²		
				16 185 mm²		
				50 185 mm²		
				50 300 mm ²		
-	0	0	4 single terminals	1.5 10 mm²	-	
ଗ ଗ ଗ ଗ				1.5 50 mm²	-	
				10 95 mm²		
				16 185 mm²		
				50 185 mm²		
				50 300 mm ²		
Circular conductor	terminal	s, 2 cables				
	Conne	ction options	Scope of supply	Cable cross-section	Copper/aluminum stranded ³⁾ Cu Al	Control wire tap
	0	2	3 single terminals,	120 300 mm²		No
476			1 short terminal cover			Yes ²⁾
葡萄萄						
* *						
	0	2	4 single terminals,	120 300 mm²		No
***			1 short terminal cover			Yes ²⁾
Circular conductor	terminal	s, 3 cables				
		ction options	Scope of supply	Cable cross-section	Copper/aluminum stranded 3)	Control wire tap
					Cu Al	
	0	2	3 single terminals,	120 185 mm²		No
***			1 short terminal cover			Yes ²⁾
57 57 57						
	0	2	4 single terminals,	120 185 mm²		No
			1 short terminal cover			Yes ²⁾
51 51 51 51						
7 7 7						
Control wire taps f	or box te	rminals ²⁾				
	_	ction options				
	0					
	2					
Control wire taps f	_					
	Conne	ction options				
	0					
T	2					

²⁾ Maximum current-carrying capacity 15 A

Maximum cable connection up to $2.5\ mm^2$

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

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

Maximum current-carrying capacity of aluminum cables 310 A

					3VA13	
					3VA14	
	3VA10		3VA20		3VA23	3VA15
	3VA11	3VA12	3VA21	3VA22	3VA24	3VA25
3V/	A9113-0JG10	-	-	-	-	-
	_	_	3VA9103-0JG11	3VA9103-0JG11	_	_
3V/	A9113-0JG11	_	_	_	_	_
	_	_	3VA9263-0JG12	3VA9263-0JG12	_	_
	_	3VA9253-0JG12	_	_	_	_
	_	_	_	_	3VA9383-0JG13 1)	_
3VA	A9114-0JG10	_	_	_	_	_
	_	_	3VA9104-0JG11	3VA9104-0JG11	_	_
3VA	A9114-0JG11	_	_	_	_	_
	_	_	3VA9264-0JG12	3VA9264-0JG12	_	_
	-	3VA9254-0JG12	-	-	-	_
	_	_	_	_	3VA9384-0JG13 ¹⁾	_
	_	_	_	_	_	3VA9503-0JB23
	_	_	_	_	_	3VA9503-0JG23
						3479303-03023
						2)///000// 01022
	_	-	-	-	-	3VA9504-0JB23
	_	-	_	_	_	3VA9504-0JG23
	-	-	-	-	-	3VA9503-0JB32
	-	-	-	-	-	3VA9503-0JG32
	-	-	-	-	-	3VA9504-0JB32
	-	-	-	-	-	3VA9504-0JG32
3VA	A9110-0WB00	3VA9200-0WB00	3VA9200-0WB00	3VA9200-0WB00	3VA9480-0WB00	-
	A9150-0WB00	3VA9280-0WB00	3VA9280-0WB00	3VA9280-0WB00	3VA9480-0WB00	_
347	.5.50 011500	34117200 044000	3477200 044000	377,5200 077,500	3775100 077000	
		3VA9200-0WC00	3VA9200-0WC00	3//0200 0///000	3//0/180 0///000	
2) (A	\Q110 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		O VMYZUU-UVVUU	3VA9200-0WC00	3VA9480-0WC00	_
	A9110-0WC00 A9150-0WC00	3VA9280-0WC00	3VA9280-0WC00	3VA9280-0WC00	3VA9480-0WC00	



• For mounting onto the circuit breaker

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

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	Conne	ection options	Scope of supply	Max. tap width	Max. tap thickness
1P	0	-	1 terminal	22 mm	8 mm
3P	-	0	3 terminals	6 × 50 mm	8 mm

Front bus connectors, with phase barriers

- 3-pole and 4-pole bus connectors extended 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).





			1 11 2		
Number of poles	Conne	ction options	Scope of supply	Max. tap width	Max. tap thickness
3P	0	2	3 terminals,	22 mm	8 mm
			2 phase barriers	32 mm	10 mm
				40 mm	12.5 mm
				50 mm	28 mm
4P	0	2	4 terminals,	22 mm	8 mm
			3 phase barriers	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 extended 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	Conne	ection options	Scope of supply	Max. tap width	Max. tap thickness
3P	0	2	3 terminals,	20 mm	6 mm
			2 phase barriers	25 mm	7 mm
				40 mm	8 mm
4P	0	0 0	4 terminals,	20 mm	6 mm
			3 phase barriers	25 mm	7 mm
				40 mm	8 mm

Front bus connectors broadened, with phase barriers

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





400/030 // = 70 mm								
Number of poles	Conne	ection options	Scope of supply	Max. tap width	Max. tap thickness			
3P	0	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	0	2	4 terminals,	30 mm	8 mm			
			3 phase barriers	35 mm	10 mm			
				60 mm	12.5 mm			
				80 mm	10 mm			

			3VA13		
		3VA20	3VA14		
3VA10		3VA21	3VA23	3VA15	
3VA11	3VA12	3VA22	3VA24	3VA25	3VA26
		377.22		337.23	37.23
3VA9151-0QB00	-	-	-	-	-
-	-	-	-	3VA9603-0QB01	-
3VA9153-0QB00	-	-	-	-	-
-	3VA9253-0QB00	3VA9263-0QB00	-	-	-
-	-	-	3VA9483-0QB00	-	-
-	-	-	-	3VA9603-0QB00	_
3VA9154-0QB00	_	-	-	-	-
_	3VA9254-0QB00	3VA9264-0QB00	-	-	-
-	-	-	3VA9484-0QB00	-	-
-	-	-	-	3VA9604-0QB00	-
3VA9153-0QD00		_			
- 20A9155-0QD00	3VA9253-0QD00	3VA9263-0QD00	_ _		
_	-	-	3VA9483-0QD00	_	-
3VA9154-0QD00	_	-	-	_	
5VA9154-0QD00 -	3VA9254-0QD00	3VA9264-0QD00	-	-	
_	-	-	3VA9484-0QD00	-	-
				_	
3VA9153-0QC00	-	-	-	-	-
-	3VA9253-0QC00	3VA9263-0QC00	-	-	-
-	-	-	3VA9483-0QC00 _	3VA9603-0QC00	_ _
_		_	_	3VN9003-0QC00	
-	-	-	-	3VA9603-0QC01	3VA9603-0QC01
3VA9154-0QC00	_	_	-	_	-
- 24A9E	3VA9254-0QC00	3VA9264-0QC00			
-	-	- -	3VA9484-0QC00	-	-
-	_	-	-	3VA9604-0QC00	-



For mounting onto the circuit breaker
 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 broadened, bus connectors and rear connections are Cu/Sn 6 r plated according to ISO 2093.

Nut keeper kits, rig	ght-angled ¹⁾							
	Number of poles	Conne	ction options	Scope of supply	Max. tap width	Max. tap thickness		
44	3P	0	2	3 terminals,	22 mm	8 mm		
				2 phase barriers	32 mm	10 mm		
					40 mm	12.5 mm		
1919								
444	4P	0	2	4 terminals,	22 mm	8 mm		
				3 phase barriers	32 mm	10 mm		
					40 mm	12.5 mm		
777								
Rear connection st	uds flat							
	Number of poles	Conne	ction options	Scope of supply				
-	1P		2	1 short connection stud flat				
				1 long connection stud	1 long connection stud flat			
ada del	3P	0 0		2 short connection studs flat,				
200				1 long connection stud flat				
		- 2		3 short connection stu	3 short connection studs flat			
A 5	4P	0 0		2 short connection studs flat,				
0000				2 long connection stud	d flat			
Rear connection st	uds round							
	Number of poles	Conne	ction options	Scope of supply				
	1P	0	2	1 short connection stu	d round			
				1 long connection stud	d round			
a 🔊	3P	0	2	1 long connection stud				
च । इस्त				2 short connection stu	as round			
A 2	4P	0	2	2 long connection stud	ds round,			
5333		_	_	2 short connection stu				

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

3VA10		3VA20 3VA21	3VA13 3VA14 3VA23	3VA15
3VA10	3VA12	3VA21	3VA23	3VA25
SVATI	SVATZ	3VA22	3VA24	3VA23
3VA9113-0QG00		_	_	_
-	3VA9213-0QG00	3VA9223-0QG00	_	_
_	-	-	3VA9403-0QG00	_
3VA9114-0QG00	-	-	-	-
-	3VA9214-0QG00	3VA9224-0QG00	-	-
-	-	-	3VA9404-0QG00	-
3VA9111-0QE10	3VA9211-0QE10	3VA9201-0QE10	3VA9401-0QE10	-
3VA9111-0QE20	3VA9211-0QE20	3VA9201-0QE20	3VA9401-0QE20	-
3VA9113-0QE00	3VA9213-0QE00	3VA9203-0QE00	3VA9403-0QE00	-
				21/40602 00501
_	-	-	-	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	-
21/40/14/00502	21/40214 00502	21/40204 00502	21/40/40/4 00/500	
3VA9114-0QF00	3VA9214-0QF00	3VA9204-0QF00	3VA9404-0QF00	_



- For mounting onto the circuit breaker
- 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

Circular conductor	torminals 2P					
Circular Conductor	Connection options	Scope of supply	Number of cables	Cable cross-section	Cu/Al stranded 2)	Control wire tap
	Connection options				Cu Al	
<u> </u>	0 -	2 single terminals, 1 extended terminal cover,	1	25 150 mm²	• •	Yes 1) No
99		1 insulation plate	6	1.5 35 mm²		No
Circular conductor	terminals, 3P					
	 Note on 3VA9603-0JJ2 	25, 3VA9603-0JJ35 and 3VA90 uired for installing circular con-				
120	Connection options	Scope of supply		Cable cross-section	Cu/Al stranded ²⁾ Cu Al	Control wire tap
ଚିତ୍ରର	0 -	3 single terminals, 1 extended terminal cover,	1	25 150 mm²		Yes 1) No
779		1 insulation plate		50 240 mm²		Yes 1) No
			2	25 150 mm²		Yes 1) No
				70 300 mm²		Yes 1) No
			4	120 240 mm²		Yes 1) No
				120 300 mm²	• •	Yes 1) No
			6	1.5 35 mm²		No
	- 2	3 single terminals,	1	25 150 mm²		Yes 1)
		1 extended terminal cover, 1 insulation plate		50 240 mm²		Yes 1)
			2	25 150 mm²		Yes 1)
				70 300 mm²		Yes 1)
				150 300 mm²		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					
	Connection options	Scope of supply	Number of cables	Cable cross-section	Cu/Al stranded ²⁾ Cu Al	Control wire tap
<u> </u>	• -	4 single terminals, 1 extended terminal cover,	1	25 150 mm²		Yes 1) No
777		1 insulation plate		50 240 mm²		Yes 1) No
			2	25 150 mm²		Yes 1) No
				70 300 mm²		Yes 1) No
			4	120 240 mm²		Yes 1) No
				120 300 mm²		Yes ¹⁾ No
			6	1.5 35 mm²		No
	- 2	4 single terminals,	1	25 150 mm²		Yes 1)
		1 extended terminal cover, 1 insulation plate		50 240 mm²		Yes 1)
			2	25 150 mm²		Yes 1)
				70 300 mm²		Yes 1)
			6	1.5 35 mm²		No

 $^{2)}\,$ Al cable only tested according to UL 486 A/B

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

3VA10 3VA11 3VA12 3VA21 3VA21 3VA23 3VA23 3VA25 3VA9112-0JC12 3VA9112-0JC12 3VA9112-0JC12 3VA9112-0JC60 3VA9113-0JC12 3VA9113-0JC12 3VA9113-0JC12 3VA9113-0JC12 3VA9113-0JC12 3VA9113-0JC12 3VA9113-0JC12 3VA9113-0JC12 3VA913-0JJ12 3VA9213-0JJ12 3VA9223-0JC13 - 3VA9213-0JJ22 3VA9223-0JC22 3VA9223-0JC22 3VA9403-0JJ23 3VA9403-0JJ23 3VA9403-0JJ23 3VA9403-0JJ23					
3VA10 3VA11 3VA12 3VA22 3VA94 3VA25 3VA913 3VA9112-0IC12 3VA9112-0IF60				3VA13	
3VA9112-0JC12			3VA20	3VA14	
3VA9112-0JC12	3VA10		3VA21	3VA23	3VA15
3VA9112-0JC12	3VA11	3VA12	3VA22	3VA24	3VA25
3VA9112-0JF60					
3VA9112-0JF60					
3VA9112-0JF60					
3VA9112-0J160	2)///0112 01012				
3VA9113-0IC12		_	-	-	-
3VA9113-0JC12					
3VA9113-0JJ12	3VA9112-0JF60	_	-	-	-
3VA9113-0JJ12					
- 3VA9213-0JC13 3VA9223-0JC13	3VA9113-0JC12	-	-	-	-
- 3VA9213-0JI23 3VA9223-0JI23	3VA9113-0JJ12	-	_	_	_
- 3VA9213-0JI23 3VA9223-0JI23	=	3VA9213-0JC13	3VA9223-0JC13	_	_
- 3VA9213-0JC22 3VA9223-0JC22				_	_
- 3VA9213-0JJ22 3VA9223-0JJ22 3VA9403-0JC23 3VA9403-0JC23 3VA9403-0JC23 3VA9403-0JC23 3VA9403-0JC23 3VA9603-0JC43 3VA9603-0JC43 3VA9603-0JC44 3VA9603-0JC44 3VA9603-0JC44 3VA9603-0JC44 3VA9603-0JC44 3VA9603-0JC44 3VA9603-0JC44 3VA9603-0JJ44 3VA9603-0JJ44 3VA9603-0JJ44 3VA9603-0JJ44 3VA9603-0JJ44				_	_
3VA9403-0JC23 3VA9403-0JC23 3VA9403-0JJ23 3VA9603-0JC43 3VA9603-0JC43 3VA9603-0JJ43 3VA9603-0JJ43 3VA9603-0JJ43 3VA9603-0JJ43 3VA9603-0JJ44 3VA9603-0JJ44 3VA9603-0JJ44 3VA9603-0JJ44 3VA9603-0JJ44					
3VA9403-0JJ23 3VA9603-0JC44					
3VA9603-0JC43 3VA9603-0JC44 3VA9603-0JC44 3VA9603-0JJ44 3VA9113-0JF60 3VA9213-0JF60 3VA9223-0JF60 3VA9303-0JF60 - 3VA9603-0JJ44 3VA9153-0JC12					
3VA9603-0JJ43 3VA9603-0JJ44 3VA9603-0JJ44 3VA9113-0JF60 3VA9213-0JF60 3VA9223-0JF60 3VA9303-0JF60 3VA9153-0JC12		_			
3VA9603-0JC44 3VA9113-0JF60 3VA9213-0JF60 3VA9223-0JF60		-		-	
3VA9603-0JJ44 3VA9113-0JF60 3VA9213-0JF60 3VA9223-0JF60 3VA9303-0JF60		-	-	-	
3VA9113-0JF60 3VA9213-0JF60 3VA923-0JF60 3VA9303-0JF60 -	-	-	-	-	
3VA9153-0JC12	_	-	-	-	3VA9603-0JJ44
- 3VA9253-0JC13 3VA9263-0JC13	3VA9113-0JF60	3VA9213-0JF60	3VA9223-0JF60	3VA9303-0JF60	-
- 3VA9253-0JC22 3VA9263-0JC22 3VA9483-0JC23 3VA9603-0JJ25 3VA9603-0JJ25 3VA9603-0JJ35 3VA9603-0JJ35 3VA9603-0JJ45 3VA9603-0JJ45 3VA9603-0JJ45 3VA9603-0JJ45 3VA9603-0JJ45	3VA9153-0JC12	-	-	-	-
3VA9483-0JC23 - 3VA9603-0JJ25 3VA9603-0JJ25 3VA9603-0JJ45 3VA9153-0JF60 3VA9253-0JF60 3VA9263-0JF60 3VA9383-0JF60	_	3VA9253-0JC13	3VA9263-0JC13	-	-
3VA9603-0JJ25 3VA9603-0JJ35 3VA9603-0JJ45 3VA9153-0JF60 3VA9253-0JF60 3VA9263-0JF60 3VA9383-0JF60 - 3VA9114-0JC12	-	3VA9253-0JC22	3VA9263-0JC22	-	-
3VA9603-0JJ35 3VA9603-0JJ45 3VA9153-0JF60 3VA9253-0JF60 3VA9263-0JF60 3VA9383-0JF60	-	-	-	3VA9483-0JC23	-
3VA9603-0JJ35 3VA9603-0JJ45 3VA9153-0JF60 3VA9253-0JF60 3VA9263-0JF60 3VA9383-0JF60	=	_	-	_	3VA9603-0JJ25
3VA9603-0JJ45 3VA9153-0JF60 3VA9253-0JF60 3VA9263-0JF60 3VA9383-0JF60	=	_	_	_	
3VA9153-0JF60 3VA9253-0JF60 3VA9263-0JF60 3VA9383-0JF60 — 3VA9114-0JC12 — — — — — — — — — — — — — — — — — — —	_	_	_	_	
3VA9114-0JC12	3VA9153-0IF60	3VA9253-01F60	3VA9263-01F60	3VA9383-01F60	
3VA9114-0JJ12	34/13/133/03/100	347(3233 031 00	37/19203 03/100	3777303 031 00	
3VA9114-0JJ12					
3VA9114-0JJ12					
3VA9114-0JJ12	3\/A9114-0IC12	_	_	_	_
- 3VA9214-0JC13 3VA9224-0JC13					
- 3VA9214-0JJ13 3VA9224-0JJ13					
- 3VA9214-0JC22 3VA9224-0JC22	-				
- 3VA9214-0JJ22 3VA9224-0JJ22	-			-	-
- - 3VA9404-0JC23 - - - 3VA9404-0JJ23 - - - - 3VA9604-0JC43 - - - - 3VA9604-0JJ43 - - - - 3VA9604-0JJ44 - - - - 3VA9604-0JJ44 3VA9114-0JF60 3VA9214-0JF60 3VA9204-0JF60 3VA9304-0JF60 - 3VA9154-0JC12 - - - - - 3VA9254-0JC13 3VA9264-0JC13 - - - 3VA9254-0JC22 3VA9264-0JC22 - -	-			-	
3VA9404-0JJ23 - 3VA9604-0JC43 3VA9604-0JC43 3VA9604-0JJ43 3VA9604-0JC44 3VA9604-0JC44 3VA9604-0JC44 3VA9114-0JF60 3VA9214-0JF60 3VA9224-0JF60 3VA9304-0JF60	-	3VA9214-0JJ22		-	-
- - - - 3VA9604-0JC43 - - - - 3VA9604-0JJ43 - - - - 3VA9604-0JC44 - - - - 3VA9604-0JJ44 3VA9114-0JF60 3VA9214-0JF60 3VA9224-0JF60 3VA9304-0JF60 - 3VA9154-0JC12 - - - - - 3VA9254-0JC13 3VA9264-0JC13 - - - 3VA9254-0JC22 3VA9264-0JC22 - -	-				
3VA9604-0JJ43 3VA9604-0JJ43 3VA9604-0JC44 3VA9604-0JJ44 3VA9114-0JF60 3VA9214-0JF60 3VA9224-0JF60 3VA9304-0JF60 - 3VA9154-0JC12	-	-	-	3VA9404-0JJ23	-
- - - - 3VA9604-0JC44 - - - - 3VA9604-0JJ44 3VA9114-0JF60 3VA9214-0JF60 3VA9224-0JF60 3VA9304-0JF60 - 3VA9154-0JC12 - - - - - 3VA9254-0JC13 3VA9264-0JC13 - - - 3VA9254-0JC22 3VA9264-0JC22 - -	-	-	-	-	3VA9604-0JC43
- - - - 3VA9604-0JJ44 3VA9114-0JF60 3VA9214-0JF60 3VA9204-0JF60 - 3VA9154-0JC12 - - - - 3VA9254-0JC13 3VA9264-0JC13 - - - 3VA9254-0JC22 3VA9264-0JC22 - -	-	-	-	-	3VA9604-0JJ43
3VA9114-0JF60 3VA9214-0JF60 3VA9224-0JF60 3VA9304-0JF60 - 3VA9154-0JC12 3VA9254-0JC13 3VA9264-0JC13 3VA9254-0JC22 3VA9264-0JC22	-	-	-	-	3VA9604-0JC44
3VA9154-0JC12	-	-	-	-	3VA9604-0JJ44
3VA9154-0JC12 – – – – – – – – – – – – – – – 3VA9254-0JC13 3VA9264-0JC13 – – – – – – – – – – – – – – – – – – –	3VA9114-0JF60	3VA9214-0JF60	3VA9224-0JF60	3VA9304-0JF60	-
- 3VA9254-0JC13 3VA9264-0JC13 3VA9254-0JC22	3VA9154-0JC12	-	-	-	-
- 3VA9254-0JC22 3VA9264-0JC22		3VA9254-0JC13	3VA9264-0JC13	-	-
				-	-
– – 3VA9484-0JC23 –	_				
		_	-	3VA9484-0JC23	-
	3VA9154-0JF60	- 3VA9254-0JF60	- 3VA9264-0JF60	3VA9484-0JC23 3VA9384-0JF60	<u>-</u>



- For mounting onto the circuit breaker
- 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

				3VA10	3VA11
l covers sp	ecially for fixed-mo	ounted units			
	Version	Number of poles	Mounting location		
7.00	Short	1P	0 -	-	3VA9111-0WD10
		2P	0 -	-	3VA9111-0WD20
		3P	0 -	3VA9111-0WD30	3VA9111-0WD30
		4P	0 -	3VA9111-0WD40	3VA9111-0WD40
	Intermediate	3P	0 -	-	-
		4P	0 -	-	-
	Extended 1)	2P	0 -	-	3VA9111-0WF20
		3P	0 -	3VA9111-0WF30	3VA9111-0WF30
		4P	0 -	3VA9111-0WF40	3VA9111-0WF40
	Broadened 1)	3P	• -	3VA9111-0WG30	3VA9111-0WG30
		4P	0 -	3VA9111-0WG40	3VA9111-0WG40
vors sp	ocially for plug-in a	and withdrawable units	(cnaro nart)		
vers sp		uit breaker touch protecti			
	 For mounting t 	to the molded case circuit			
	Version	Number of poles	Mounting location		
	Short	3P	0 -	3VA9113-0KB01	3VA9113-0KB01
		4P	0 –	3VA9114-0KB01	3VA9114-0KB01
rs fo	r plug-in or withdra				
		ection in the termination or withdrawable socket	area		
		onto the plug-in or withdr	rawable socket		
	Version	Number of poles	Mounting location		
	Short	3P	- 2	-	3VA9153-0KB03
		4P	- 2	-	3VA9154-0KB03
	Extended 1)	3P	- 2	-	3VA9153-0KB04
			- 2	-	3VA9154-0KB04
	Broadened 1)	3P	- 0	-	3VA9153-0KB05
		4P	- 2	-	3VA9154-0KB05

¹⁾ Including insulating plate

²⁾ Suitable for circular conductor terminals 2/4 cables

		3VA13	
	3VA20	3VA14	
	3VA21	3VA23	3VA15
3VA12	3VA22	3VA24	3VA25
-	-	-	-
-	-	-	-
3VA9211-0WD30	3VA9221-0WD30	3VA9481-0WD30	3VA9601-0WD30
3VA9211-0WD40	3VA9221-0WD40	3VA9481-0WD40	3VA9601-0WD40
	_		3VA9601-0WE30 ²⁾
_	_	_	3VA9601-0WE40 ²⁾
			30000 000 1000 100
-	-	-	-
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	_
21/VUJE3 UNDUV	21/0162 04004	2)/A0252 0VD04	
3VA9253-0KB04	3VA9163-0KB04	3VA9353-0KB04	
3VA9254-0KB04	3VA9164-0KB04	3VA9354-0KB04	_
3VA9253-0KB05	3VA9163-0KB05	3VA9353-0KB05	_
3VA9254-0KB05	3VA9164-0KB05	3VA9354-0KB05	
3VA3234-0K003	3VA3104-0003	JVAJJJ4-000J	



- For mounting onto the circuit breaker
- 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

				3VA10	3VA11
Insulating plates					
	Version	Number of poles	Mounting location		
	Standard	2P	• -	-	3VA9111-0WJ20
		3P	0 -	3VA9111-0WJ30	3VA9111-0WJ30
		4P	0 -	3VA9111-0WJ40	3VA9111-0WJ40
	Broadened	3P	0 -	3VA9111-0WK30	3VA9111-0WK30
		4P	0 -	3VA9111-0WK40	3VA9111-0WK40
Phase barrier					
44	Mounting location	Scope of supply			
	0 0	2 phase barriers		3VA915	2-0WA00
	2	2 phase barriers			_
Protective sleeve	for insulation of rear co	onnections			
660	Mounting location	Scope of supply			
	2	3 protective sleeves			-
DC insulation pla	tes for 3VA1 for fixed-m	nounted molded case	circuit breakers		
200	Number of poles				
	3P			3VA911	3-0SG10
	4P			3VA911	4-0SG10
Side plates for 3'	VA1 for fixed-mounted	molded case circuit br	reakers		
1	Number of poles	Mounting			
n n	2P	On 2-pole molded ca	ase circuit breakers	-	3VA9112-0SG20

	3VA20	3VA13 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 communication module

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

					3VA13	
				3VA20	3VA14	3VA15
				3VA21	3VA23	3VA25
		3VA11	3VA12	3VA22	3VA24	3VA26
Withdrawable units	complete kits	30,111	3477.12	347122		347120
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	_		3VA9124-0KD00		_
Withdrawable units	, conversion kits					
das	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			-
	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 base Plug-in unit, conversion kit Mounting screw kit Note 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 4P		3VA9213-0KP00 3VA9214-0KP00			3VA9603-0KP00
Plug-in units, conv	**	3VA9114-0KP00	3VA9214-0KP00	3VA9124-UKP00	3VA9324-UKPUU	_
Tiriri	Scope of supply: Screw-fastened terminal covers for molded case circuit breakers Plug-in contacts Cable cages					
dda	Autotrip plunger					
	Number of poles 3P	3\/AQ112 OVD10	3VA9213-0KP10	3\/AQ122 0VD10	3\/AQ322 0VD10	
	4P		3VA9213-0KP10			
Plug-in units, conv	version kits with blade contacts	2.1.3.1.1.3.1.10	21.021.001	21.13.12.13.11.10	21.002.00.010	
63636	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.					
	3P	-	-	-	-	3VA9603-0KP10

Plug-in and withdrawable technology

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

					3VA13	
				3VA20	3VA14	3VA15
				3VA21	3VA23	3VA25
		3VA11	3VA12	3VA22	3VA24	3VA26
Cable cages for pl	ug-in/withdrawable units (spare part)					
Distriction of the last of the	 For routing of the required cables from the internal accessories on the back of the circuit breaker 					
CONTRACTOR OF THE PARTY OF THE	Number of poles					
	3P/4P	3VA9157-0KB02	3VA9257-0KB02	3VA9167-0KB02	3VA9367-0KB02	-
Door feedthrough	s					
		-	3VA9257-0KT00	3VA9167-0KT00	3VA9367-0KT00	-
Autotrip plungers	(spare part)					
A	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
Communication link	rs for withdrawak	alo unit	JVAIT	34/12	JVNZZ	JVAZT	JVNZU
Communication inik	Scope of suppl						
		th three special position	3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00	-
	signaling switch						
fff	3VA9987-0KC1	0 connecting cables					
	witches for withd	lrawable unit and plug-i	n unit				
- oo a on ongraming or	Note on 3VA						
		gnaling switches can be					
	installed in the	ne plug-in base.					
Á							
			3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00	3VA9603-0KB00
Connecting cables							
/	Use						
	Connection of p	osition signaling	3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10	-
		mmunication with					
	COM060	a.v.ita					21/40602 08000
Cranks for withdraw	For auxiliary circ	cuits	-	-		-	3VA9603-0KP80
Clariks for Withdraw	Version	Scope of supply					
	Insulated	Including crank	3VA9987-0KD81	3VA9987-0KD81	3VA9987-0KD81	3VA9987-0KD81	-
		holder					
Auxiliary circuit con							
_		y circuit connector is					
	designed for Version	4 Cables.	_		_		
140	For all withdraw	vable units	3VA9987-0KD80	3VA9987-0KD80	3VA9987-0KD80	3VA9987-0KD80	-
-	For all plug-in u			3VA9987-0KP80			_
Cylinder locks							
	 Scope of sup 						
	– 1 lock witl						
6.1	 For locking o Note: Not fo 	r 3VA15/3VA25!					
1	Key	Lock number			_		
	1	1	3VA9980-0VL10	3VA9980-0VL10	3VA9980-0VL10	3VA9980-0VL10	-
	3	3	3VA9980-0VL30	3VA9980-0VL30	3VA9980-0VL30	3VA9980-0VL30	-
	4	4	3VA9980-0VL40	3VA9980-0VL40	3VA9980-0VL40	3VA9980-0VL40	-
Cylinder lock adapte							
-00		nauthorized withdrawal					
		of the circuit breaker drawable unit					
		er can be locked in the					
		EST and DISCONNECT					
	positions						
	Use	nder lock in the	21/40000 01 540	31/40090 01 540	3)/40090 01540	2)///0000 01 540	
		nder lock in the wall of the withdrawab-	3 V A 9 9 8 U - U L F 4 U	3VA9980-0LF40	3VA998U-ULF4U	3 VA998U-ULF4U	_
	le unit	or and withdrawab					

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)



 Mount 	ted onto the s	ide (left)										
Num- ber of poles	Туре	Sensitivi- ty ³⁾	Rated residual response	Limit value of non-tripping time	Rated operational voltage <i>U</i> _e	Fault current frequency	Pre-al	-alarm		Trip alarm		
			current $I_{\Delta n}$	Δt				NO O COM	СОМ	TRIP	NO O COM	СОМ
3-pole	RCD510	Type A	0.03 5 A	0 3 s	127 480 V AC	50/60 Hz	1	-	-			_
4-pole	RCD310	Type A	0.03 5 A	Instantaneous	127 480 V AC	50/60 Hz	1	-	-		•	-
	RCD510	Type A	0.03 5 A	0 3 s	127 480 V AC	50/60 Hz	1	-	-	•	•	-

Residual current devices (RCD) for molded case circuit breakers

• Mounted below (under trip unit)

	Num- ber of poles	Туре	Sensitivi- ty ³⁾	Rated residual response	Limit value of non-tripping time	Rated operational voltage U _e	Fault current frequency	Pre-a	Pre-alarm		Trip alarm		
	2 mala			current I _{∆n}	Δt			-	NO O COM	СОМ	TRIP	NC O 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)	Туре В	0.03 5 A	0 10 s	127 690 V AC	0 100 kHz	1		-		•	-
			Type B+	0.03 0.3 A									
		RCD820 ²⁾	Type A	0.03 30 A ⁵⁾	0 10 s	127 690 V AC	50/60 Hz	2					
	4-pole	RCD320	Type A	0.03 5 A	Instantaneous	127 480 V AC	50/60 Hz	1	-	-		•	-
		RCD520	Type A	0.03 5 A	0 3 s	127 480 V AC	50/60 Hz	1	-	-		•	-
		RCD520B4)	Туре В	0.03 5 A	0 10 s	127 690 V AC	0 100 kHz	1		-			-
·			Type B+	0.03 0.3 A									
		RCD820 ²⁾	Type A	0.03 30 A ⁵⁾	0 10 s	127 690 V AC	50/60 Hz	2					

Residual current releases (spare part)



For RCD310 or RCD510

Scope of supply 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



For RCD820

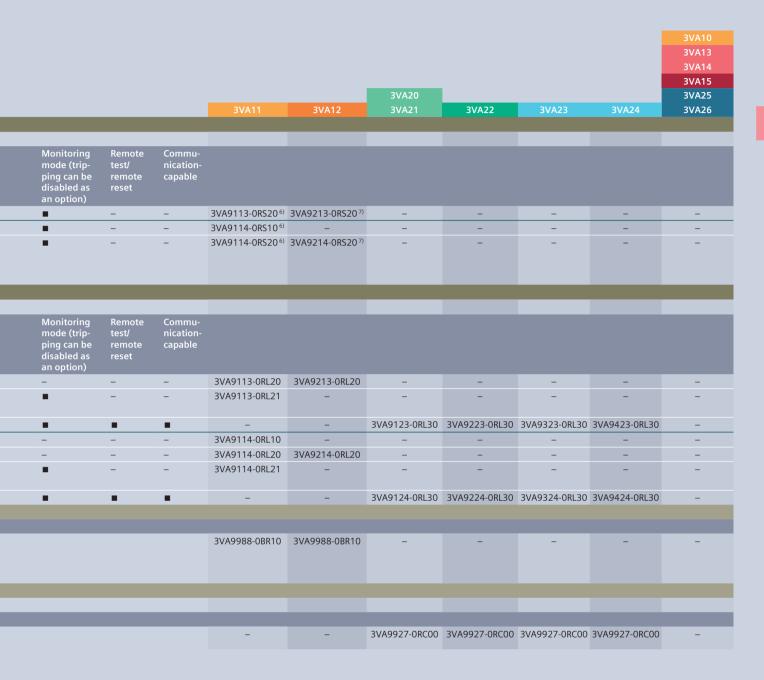
Scope of supply

1× RCD-ETU cable

3-pole version in 4-pole enclosure
 With energy infeed from below, the required auxiliary switch (AUX) must be ordered separately

- 3) Type A: pulse current sensitive, type B/B+: universal current sensitive 4) Sensitivity selectable for type B/B+
- 5) $I_{\Delta n} = 30A$: type AC
- f 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



System overview, page 2/20 Siemens LV 10 · 04/2022 2/55

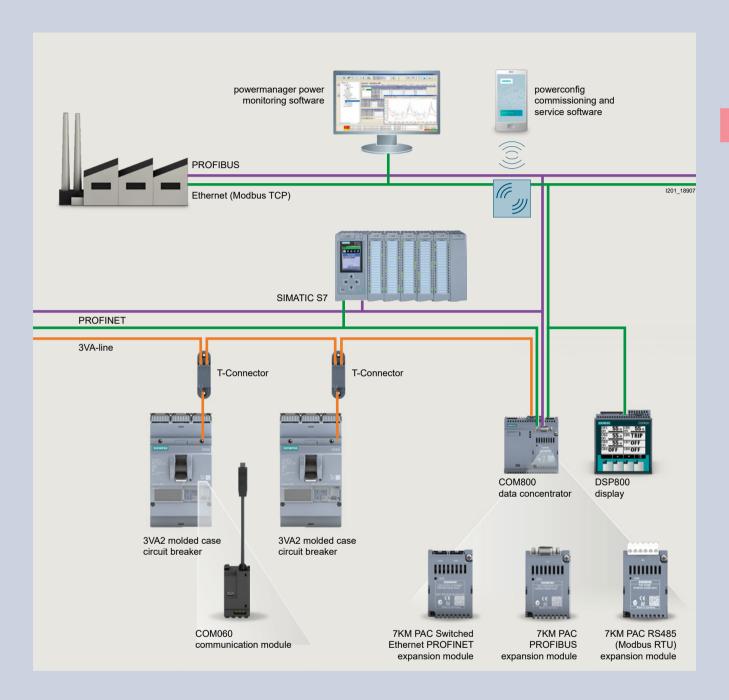
Communication

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	I _g	Α					•
Phase with highest load		Α		-			
Average value over the three phase currents	$I_{\text{leading axis}} = (I_1 + I_2 + I_3)/3$	Α	-		-		-
Asymmetry of the phase currents	I _{nba}	%	-		-		•
THD of the 3 phases	THDI ₁ , THDI ₂ , THDI ₃	%	-		-		•
Voltage							
Phase voltages incl. average value	$U_{12}, U_{23}, U_{31}, U_{\rm phavg}$	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	-				•
Maximum pointer function							
Min./max. current, voltage, power	With time stamp	-	-	-	-	-	•
Condition Monitoring 2)							
Operating cycles counter	CLOSE-OPEN cycle				-	-	
Operating hours		h			-	-	•
Trip counter	Differentiated by trip causes		•	•	-	-	•
Health indicator ³⁾	Incl. contact state	%				-	•
Remaining life time 3)		Time		-	-	-	•

■ Available □ Displayable - Not available

			3VA23
		3VA20	3VA24
		3VA21	3VA25
		3VA22	3VA26
COM060 communica	tion 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 p	part)		
	Scope of supply		
	5 units	3VA9187-0TB60	3VA9387-0TB60
24 V modules			
PLEA	 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



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

Article No. 3VA9987-0TA10

COM100 data concentrators



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

Article No.

Article No.

Article No.

6MF2802-1AA00

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.

7KM9300-0AB01-0AA0

7KM PAC Switched Ethernet PROFINET expansion modules

SICAM CP-8021 1)

module, 2 terminating resistors



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, PROFIED and Modbus TCP protocols.

7KM9300-0AE02-0AA0

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

4 interfaces



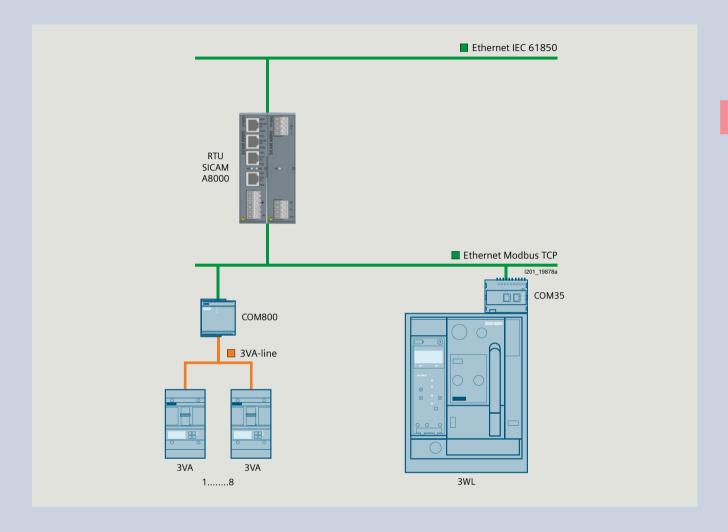
SICAM PS-8620	-	24 60 V DC (12 W)	6MF2862-0AA00
SICAM PS-8622	-	110 220 V DC (12 W)	6MF2862-2AA00

Operating voltage

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

 $^{^{\}mbox{\tiny 1)}}$ Dimensioned for device quantities of 8× 3VA and 1× 3W

2/59



Siemens LV 10 · 04/2022

Communication

Accessories for communication

-connectors (spa	ire party		
- 1	Use		Article No.
E	Provides a stub connection to the COM060 and loc	ops through to the next circuit breaker.	3VA9987-0TG10
N-rail adapters			
	Use		Article No.
mmmi	For snapping the T-Connector onto a DIN rail.		3VA9987-0TG11
المال المال			
efabricated con	necting cables, T-connector – T-connector or T-conne	ector – COM800/COM100	
	Length		Article No.
	0.4 m		3VA9987-0TC10
	1 m		3VA9987-0TC20
	2 m		3VA9987-0TC30
	4 m		3VA9987-0TC40
efabricated con	necting cables for extending the COM060 – T-connec	ctor stub connection	
	Length		Article No.
	0.4 m		3VA9987-0TF20
-20	0.8 m		3VA9987-0TF10
lditional bus ter	rminating resistors (spare part)		
mont)	Use		Article No.
			21/40007 OTE 10
7	For COM800 and COM060		3VA9987-0TE10
oltage tap to ext	For COM800 and COM060 ternal N conductors (spare part)		3VA9987-UIETU
oltage tap to ext			Article No.
oltage tap to ext	ternal N conductors (spare part) Use	surement function of the 8-series ETU, length 1.5 m	
N .	ternal N conductors (spare part) Use	surement function of the 8-series ETU, length 1.5 m	Article No.
N .	ternal N conductors (spare part) Use Cable for connection of the star point for the meas	surement function of the 8-series ETU, length 1.5 m Rated current	Article No.
N	Use Cable for connection of the star point for the measuransformer for N conductors Use For 3VA2 3-pole molded case circuit breakers,		Article No. 3VA9987-0UC10
N .	Use Cable for connection of the star point for the meas cransformer for N conductors Use For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs,	Rated current	Article No. 3VA9987-0UC10 Article No.
N .	Use Cable for connection of the star point for the measuransformer for N conductors Use For 3VA2 3-pole molded case circuit breakers,	Rated current 25 150 A	Article No. 3VA9987-0UC10 Article No. 3VA9007-0NA10
ternal current t	Use Cable for connection of the star point for the meas cransformer for N conductors Use For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs,	Rated current 25 150 A 160 350 A	Article No. 3VA9987-0UC10 Article No. 3VA9007-0NA10 3VA9107-0NA10
ternal current t	Use Cable for connection of the star point for the meas ransformer for N conductors Use For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables	Rated current 25 150 A 160 350 A	Article No. 3VA9987-0UC10 Article No. 3VA9007-0NA10 3VA9107-0NA10
ternal current t	ternal N conductors (spare part) Use Cable for connection of the star point for the measuransformer for N conductors Use For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables	Rated current 25 150 A 160 350 A	Article No. 3VA9987-0UC10 Article No. 3VA9907-0NA10 3VA9107-0NA10 3VA9307-0NA10
ternal current to	Use Cable for connection of the star point for the measuransformer for N conductors Use For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables ransformers as straight-through transformers Rated current	Rated current 25 150 A 160 350 A	Article No. 3VA9987-0UC10 Article No. 3VA9007-0NA10 3VA9107-0NA10 3VA9307-0NA10 Article No.
ternal current to	Use Cable for connection of the star point for the measuransformer for N conductors Use For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables transformers as straight-through transformers Rated current 25 150 A	Rated current 25 150 A 160 350 A	Article No. 3VA9987-0UC10 Article No. 3VA9007-0NA10 3VA9107-0NA10 3VA9307-0NA10 Article No. 3VA9077-0NA10
ternal current to	Use Cable for connection of the star point for the measuransformer for N conductors Use For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables rransformers as straight-through transformers Rated current 25 150 A 160 350 A	Rated current 25 150 A 160 350 A	Article No. 3VA9987-0UC10 Article No. 3VA9007-0NA10 3VA9107-0NA10 Article No. 3VA9077-0NA10 3VA9177-0NA10
ternal current to	Use Cable for connection of the star point for the measuransformer for N conductors Use For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables transformers as straight-through transformers Rated current 25 150 A 160 350 A 400 630 A	Rated current 25 150 A 160 350 A 400 630 A	Article No. 3VA9987-0UC10 Article No. 3VA9007-0NA10 3VA9107-0NA10 Article No. 3VA9077-0NA10 3VA9077-0NA10 3VA9177-0NA10 3VA9377-0NA10
cternal current to	ternal N conductors (spare part) Use Cable for connection of the star point for the measuransformer for N conductors Use For 3VA2 3-pole molded case circuit breakers, for 5 and 8-series ETUs, including connecting cables transformers as straight-through transformers Rated current 25 150 A 160 350 A 400 630 A 600 1250 A	Rated current 25 150 A 160 350 A 400 630 A	Article No. 3VA9987-0UC10 Article No. 3VA9007-0NA10 3VA9107-0NA10 Article No. 3VA9077-0NA10 3VA9077-0NA10 3VA9177-0NA10 3VA9377-0NA10

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



LIBSOU		
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

10300) test	dev	IC
1			

Use Connection Article No.

For activation of the ETU and initiation of a test tripping operation On the front interface of the ETU 3VA9987-0MA10

TD400 test devices 1)



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

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

TD500 test devices



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

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

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	
ne locking provisions make i	t nossible to loc	k the 3VA molded case circuit breakers				
ion						
ider lock Key	y 1 (lock numbe	r 1)		3VA9980-0VL10		ĺ
Key	y 3 (lock numbe	r 3)		3VA9980-0VL30		
Key	y 4 (lock numbe	r 4)		3VA9980-0VL40		
		RONIS) in the accessories compartment	3VA9157-0LF10	3VA9257-0LF10	3VA9167-0LF10	
ng provision for handle ope	erating mechani	sm	3VA908	8-0LB10	3VA9388-0LB10	
olded case circuit breakers. ne interlock system is design rcuit breaker can be operate ne following methods of inte rcuit breakers: Front interlock	ned to ensure the	at no more than one molded case				
ion						l
der lock Kev	v 1 (lock numbe	r 1)		3VA9980-0VL10		ı
				3VA9980-0VL30		
Key	y 4 (lock numbe	r 4)		3VA9980-0VL40		
ng bar interlock			3VA9158-0VF30	3VA9258-0VF30	3VA9168-0VF30	
ule for handle interlocking n	module with bo	wden cable	3VA9157-0VF10	3VA9257-0VF10	3VA9167-0VF10	
den cable		Length 0.6 m		3VA9980-0VC10		ĺ
		Length 1.0 m		3VA9980-0VC20		
		Length 1.5 m		3VA9980-0VC30		
interlock with rod		Circuit breaker, fixed-mounted		3VA9088-0VM10		
		Plug-in/withdrawable technology		3VA9088-0VM30		
nting frame for rear interloc	k with rod	Profile rails		3VA9088-0VK10		
		Mounting plate	3VA9158-0VK20	3VA9258-0VK20	3VA9268-0VK20	
i	either the OFF or the ON opion der lock Ke	either the OFF or the ON operating position ion der lock Key 1 (lock number Key 3 (lock number Key 4 (lock	der lock Key 3 (lock number 3) Key 4 (lock number 4) Ster kit for mounting the cylinder lock (type RONIS) in the accessories compartment e molded case circuit breaker sing provision for handle operating mechanism sing interlocking technology, it is possible to mutually interlock two or more olded case circuit breakers. In interlock system is designed to ensure that no more than one molded case cruit breaker can be operated at a time. In following methods of interlocking can be used on 3VA molded case cruit breakers: Front interlock Rear interlock Ider lock Key 1 (lock number 1) Key 3 (lock number 3) Key 4 (lock number 4) Ing bar interlock Unle for handle interlocking module with bowden cable Length 1.5 m Length 1.5 m Interlock with rod Circuit breaker, fixed-mounted Plug-in/withdrawable technology Inting frame for rear interlock with rod Profile rails	der lock Key 1 (lock number 1) Key 3 (lock number 3) Key 4 (lock number 4) ster kit for mounting the cylinder lock (type RONIS) in the accessories compartment are molded case circuit breaker ing provision for handle operating mechanism 3VA908 sing interlocking technology, it is possible to mutually interlock two or more olded case circuit breakers. ing interlocking technology, it is possible to mutually interlock two or more olded case circuit breakers. ing interlocking technology, it is possible to mutually interlock two or more olded case circuit breakers. In interlock steps is designed to ensure that no more than one molded case cruit breakers. In interlock great interlocking can be used on 3VA molded case cruit breakers. Front interlock Rear interlock In interlock Key 1 (lock number 1) Key 3 (lock number 3) Key 4 (lock number 4) Ing bar interlock Java 1.0 m Length 1.0 m Length 1.0 m Length 1.5 m Length 1.5 m Interlock with rod Circuit breaker, fixed-mounted Plug-in/withdrawable technology Inting frame for rear interlock with rod Profile rails	der lock	either the OFF or the ON operating position. Idea lock Key 1 (lock number 1) Key 3 (lock number 3) Key 4 (lock number 4) SVA9980-OVL00 SVA9980-OVC00 Length 1.0 m SVA9980-OVC00 Length 1.5 m SVA9980-OVC00 Interlock with rod Circuit breaker, fixed-mounted SVA9988-OVK10 Plug-in/withdrawable technology svay988-OVK10

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

3VA13							
3VA14	3VA15						
3VA23 3VA24	3VA25 3VA26						
3VA24	3VA26	Locking					
		LOCKING					
		Use in	Locking in	Locking in	Front	Rear	Interlocked
3VA998	0-0VL10	Breakers, motor-drive	OFF position	ON position	mounting	mounting –	breakers –
	0-0VL30	mechanisms, manual operators,					
3VA998	0-0VL40	withdrawable technology					
3VA9367-0LF10	3VA9587-0LF10	Circuit breaker	•	•	•	-	-
3VA9388-0LB10	3VA9588-0LB10	Circuit breaker	•	•	•	_	-
		Interlocking					
		interlocking			_	_	
		Use in	Locking in OFF position	Locking in ON position	Front mounting	Rear mounting	Interlocked breakers
3VA9980-0VL10	-	Breakers, manual		•	•	-	Unlimited
3VA9980-0VL30	-	operators					
3VA9980-0VL40	-						
3VA9368-0VF30	-	Circuit breaker	-	-	•	-	3
3VA9367-0VF10	3VA9587-0VF10	Circuit breaker	-	-	•	-	3
3VA998	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	-		-	-	-	•	
3VA9468-0VK20	-						

Cover frames and mounting

			3VA10	
			3VA11	3VA12
over frames for d	loor cut-outs for molded case ci			
	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
over frames for N	MO320 motor operators			
	Use			
	MO320 motor operator		3VA9053-0SB20	3VA9257-0SB30
	Motor operator with SEO520	stored energy operator	-	-
over frames for R	CD320, RCD520 and RCD820 re	sidual current devices		
	Number of poles			
	3P		3VA9053-0SB10	3VA9253-0SB10
	4P		3VA9054-0SB10	3VA9254-0SB10
over frames for fi	ront mounted rotary operators			
			3VA9053-0SB10	3VA9253-0SB10
over frames for d	loor feedthroughs			
			-	3VA9253-0SB20
abeling plates for	r cover frame			
77			3VA ^c	9087-0SX10
N-rail adapter fo	r 3VA1 molded case circuit brea	kers		
	Number of poles			
	1P		3VA9181-0SH10 ¹⁾	-
	2P		3VA9182-0SH10	-
TO SERVICE STATE OF THE PERSON NAMED IN COLUMN 1	3P and 4P		3VA9187-0SH10	-
	3P and 4P in connection with	RCD310 or RCD510	3VA9187-0SH20	-
ounting screw ki				
	Use	Number of poles		
	For fixed-mounted breakers	1P	3VA9111-0SS10	-
		2P and 3P (apart from 125 A/160 A with 55 kA and 70 kA)		6-0SS10
		3P (125 A/160 A with 55 kA and 70 kA) and 4P	3VA911	4-0SS10
		3P	-	-
		4P	-	-
		3P and 4P	-	-
	For plug-in units	-	3VA911	4-0SS10
	For plug-in and withdrawable technology	-	-	3VA9114-0SS10
For 1-pole 3VA11 mo	olded case circuit breakers up to 25 kA			

System overview, page 2/20

Adapter 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	3VA9387-0SB30	-
3VA9167-0SB30	-	-
3VA9253-0SB10	3VA9303-0SB40	-
3VA9254-0SB10	3VA9304-0SB40	-
3VA9163-0SB10	3VA9383-0SB10	3VA9503-0SB50
3VA9253-0SB20	3VA9353-0SB20	-
	21/4007.05/40	
	3VA9087-0SX10	
	-	-
		-
_	_	_
-	-	-
-	-	-
-	-	-
3VA9126-0SS10	-	-
3VA9124-0SS10	-	-
-	3VA9328-0SS10	3VA9517-0SS10
2\/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2\/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	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

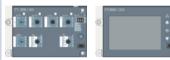




Handle

Stored energy operator

Trip units



Accessories







Electronic trip unit (ETU)

Communication Rating plugs module

Breaker Connect Test devices and module breaker data adapters

Main conductor connections



broadened



Front

extended



broadened

Front



Cable lug

Accessories



Motors

horizontal



Spring charging

Accessories



Mechanical operating cycles counter (MOC)

Auxiliary releases/closing coils



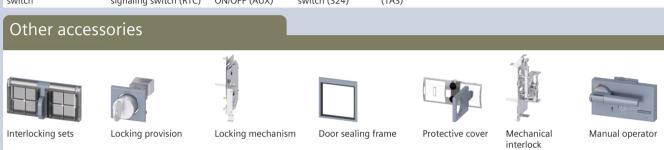


Undervoltage release (UVR)/ Shunt trip (ST)

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

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





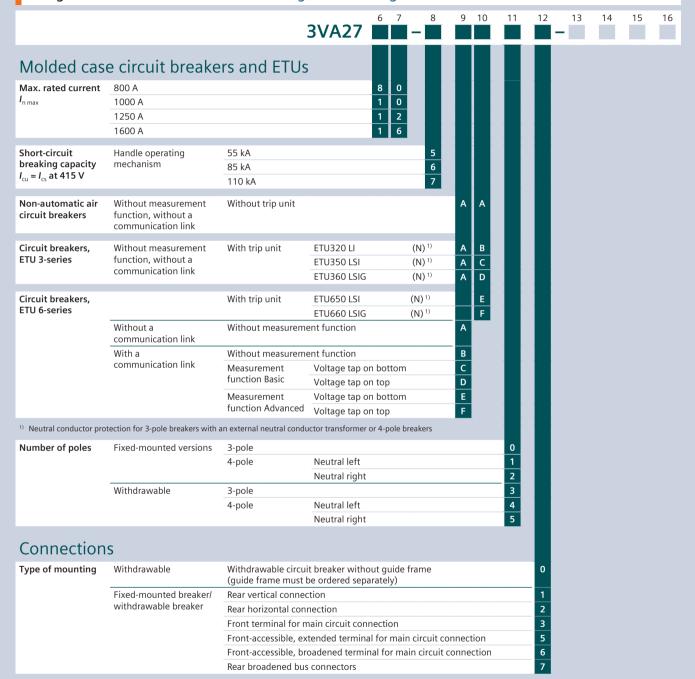
Note:

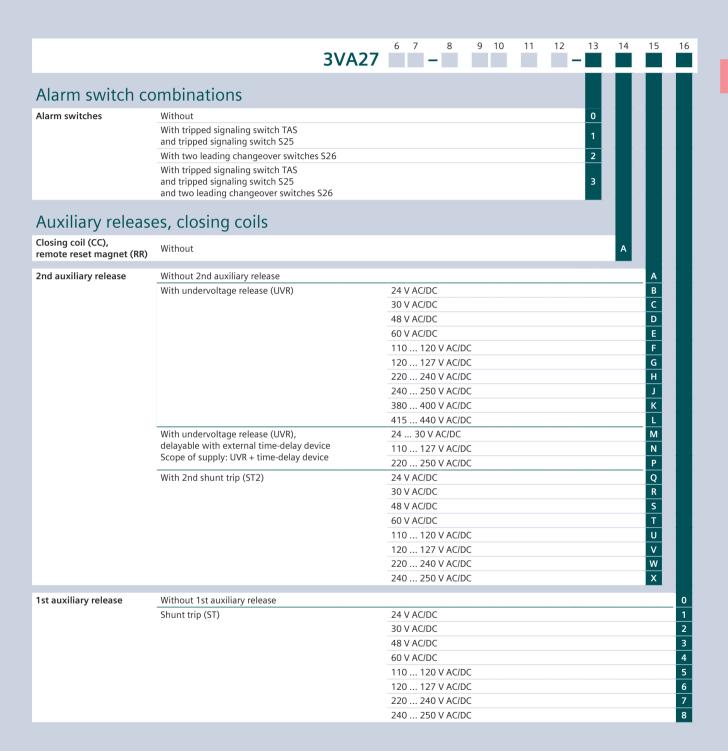
You will find a detailed range of accessories in the Accessories and spare parts section.

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

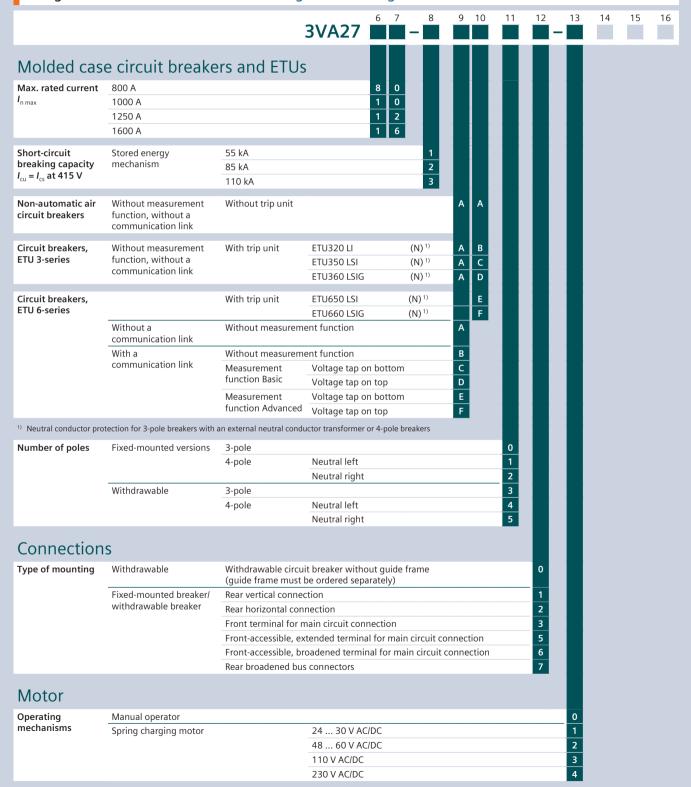




Structure of the article numbers

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 releases, closing coils, remote reset magnets									
Closing coil (CC),	Without	A							
remote reset magnet (RR)	Closing coil (CC)	24 V AC/DC B							
		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 H							
		240 250 V AC/DC							
	Closing coil (CC) and	24 V AC/DC K							
	additional remote reset magnet (RR)	110 V AC/DC L							
	, , , , , , , , , , , , , , , , , , ,	220 V AC/DC M							
		ZZU V ACIDC W							
2nd auxiliary release	Without 2nd auxiliary release		Α						
	With undervoltage release (UVR)	24 V AC/DC	В						
		30 V AC/DC	С						
		48 V AC/DC							
		60 V AC/DC	Е						
		110 120 V AC/DC	D E 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							
	The Zina shall culp (3.2)	30 V AC/DC	Q R						
		48 V AC/DC	S						
		60 V AC/DC	T						
		110 120 V AC/DC							
		120 127 V AC/DC	U V						
		220 240 V AC/DC	w						
		240 250 V AC/DC	W						
		2 10 250 V NGDC	A						
1st auxiliary release	Without 1st auxiliary release			0					
	Shunt trip (ST)	24 V AC/DC		1					
		30 V AC/DC		3					
		48 V AC/DC		3					
		60 V AC/DC		4 5					
		110 120 V AC/DC		5					
		120 127 V AC/DC		6 7					
		220 240 V AC/DC							
		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 • The electronic trip units are equipped as standard with a rating plug for setting the rated current In, which is equal to the maximum rated circuit breaker current ($< I_{n \text{ max}}$). The rated current of the selected rating plug must be less than or equal to $I_{n \text{ max}}$ To downrate the circuit breaker, a rated current smaller than $I_{n \text{ max}}$ is selected for the rating plug via a Z option. Other functions can also be activated using rating plugs (L = OFF or Rc protection). For setting the rated current $I_{\rm p}$ For all ETUs 400 A **₹** B04 Rating plug 630 A Š 2 B06 800 A Ž. 2 B08 š 1000 A 4 B10 1200 A ₹ 2 B12 For setting the rated current I_n , with overload 400 A **∠** For 6-series ETUs L04 protection L = OFF ₹ 630 A ∡ L06 ξ 800 A 4 L08 1000 A ₹ ∡ 1250 A ¥ __ 1600 A **≨** ∡ G04 For setting the rated current I_n , For ETU660 only 400 A ∡ For enabling the residual current protective function. 630 A **₹** The residual current function is only possible with the 800 A **₹** G08 MF Advanced measurement function. 1250 A ∡ Communication modules • Up to 2 different communication modules can be used at the same time. When using an IOM040 digital I/O module (Z option K56), only 1 communication module can be used. Communication modules COM040 Modbus TCP **≦** ∡ F02 × 4 F03 COM041 Modbus RTU COM043 Modbus TCP ¥ 4 COM042 Modbus RTU ₹ 4 F12 **Breaker Connect modules** When a circuit breaker with a communication link 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 ₹ 4 K56

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

To specify the options ac	ld "-Z" to the complete article n	number and indicate th	10					
appropriate order code(s)	•	idiliber dila malcate ti			_	Order code		
			3VA27		∠			
Accessories for n	Accessories for motors							
5-digit mechanical operating	cycles counter			W	_	C01		
	es and signaling swit	ches						
	9		and and					
• For currents <100 mA for PL	•	gnaling switches can be rep						
Position signaling switches for	or guide frames 1)	2 CO 2 CO 2 CO (conne	ected test disconnected position)	W	∡	K55		
Signaling switch	Ready-to-close signaling		1 CO digital 24 V DC	¥	-	K50		
	Tripped signaling switch (S24)	4) 1 CO digital 24 V DC		¥	<u> </u>	K53		
	Spring charge signaling switch (S21)	1 CO digital 24 V DC	¥	-	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	M	∡	K52		
Locking, blocking	g and interlocking							
Locking provisions 1)	To prevent movement of	Cylinder lock	Made by RONIS	¥	∡	R78		
	withdrawable circuit breaker	For no more than 3 padlocks, 8 mm			∡	R65		
Locking mechanism	To prevent movement to disconnec	ted position		W	∡	R79		
Locking provision	Against unauthorized closing	Cylinder lock, made by Ro	ONIS	W	_	S08		
	in the operator panel (safe OFF)	For no more than 3 padlocks, plastic 4 mm			-	S22		
		For no more than 1 padlo	,	¥	_	S23		
		For no more than 2 padlo	ocks, metal 8 mm	W	-	S07		
Interlocking sets	For mechanical ON and/or OFF on	For no more than 3 padlo	ocks, plastic 4 mm	W	-	S42		
	the operator panel	For no more than 1 padlo	ock, metal 7 mm	W	-	S43		
		For no more than 2 padlo	ocks, metal 8 mm	¥	-	S44		
Protective cover	For mechanical ON/OFF, not lockab	le		W	-	S41		
Door sealing frame IP30	IP3x			W	∡	T30		

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

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

 $^{^{}m 1)}$ 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" to the complete article number and indicate the appropriate order code(s). 3VW8						Order code	
Locking, blocking and interlocking							
Locking provision	To prevent movement of	Cylinder lock, made by RONIS	¥	∡		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	∡		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)	WW	∡		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

 $[\]mbox{\ensuremath{\xi}}$ 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 unit	s (ETU)					
	Version	With communications/ measurement function, enhanced protective functions	Туре	Protective function		Article No.
100	With rotary coding switches	No	ETU320	LIN	₹ ∡	3VW9011-5AA00
			ETU350	LSIN	≦ <u>≼</u>	3VW9012-5AA00
			ETU360	LSING	₹ ∡	3VW9012-7AA00
100	With display	Yes	ETU650	LSIN	₹ ∡	3VW9017-5AA00
			ETU660	LSING	₹ ∡	3VW9017-7AA00
Measurement fund	ctions for ETU650 or ETU660					
No.	Description	Protective function/version		Arrangement		Article No.
	Measurement function	MF Basic		-	≦ ∡	3VW9011-0AT01
1		MF Advanced		_	₹ ∡	3VW9011-0AT04
	Set of cables for voltage tap for MF	For 4-pole circuit breakers with N conductor right		Top or bottom	₹ ∡	3VW9011-0AT08
NAME OF STREET		For 4-pole circuit breakers		Тор	≦ ∡	3VW9011-0AT75
		with N conductor left		Bottom	₹ ∡	3VW9011-0AT76
		For 3-pole circuit breakers		Тор	₹ ∡	3VW9011-0AT72
				Bottom	 <u>∡</u>	3VW9011-0AT73
External current tr	ansformers for N conductors					
-11	Accessory for	Use				Article No.
	ETU320, ETU350, ETU360, ETU650, ETU660	Only for 3-pole circuit breakers			§ <u>∡</u>	3VW9011-0AA30
External current tr	ansformers for grounded trans	former star points				
	Accessory for	G _{ret} (Ground return)				Article No.
	ETU660	100 A			₹ ∡	3VW9011-0GF30
		250 A			¥ <u></u>	3VW9011-0GF31
Summation curren	t transformers external Rc-CT f	or residual current measurement				
	Only with MF Advanced m	easurement function and Rc rating plug				
	Accessory for	Use				Article No.
	ETU660	For external residual current measurement			₹ ∡	3VW9011-0RC30
Remote reset mag	nets RR for the circuit breakers	including tripped signaling				
i i i i i i i i i i i i i i i i i i i		for resetting the circuit breaker after tri	pping as a res	ult of overcurrent	t conditions	
	Accessory for	Voltage	- J 9 43 4 103			Article No.
	ETU320, ETU350, ETU360,	24 V DC			§ –	3VW9011-0AK03
	ETU650, ETU660	110 V AC/DC			š –	3VW9011-0AK05
		250 V AC/DC			¥ -	3VW9011-0AK06
Spare part batterie	es for electronic trip unit ETU					
	Accessory for					Article No.
	ETU320, ETU350, ETU360, E	ΓU650, ETU660			₹ ∡	3VW9011-0AT38

- $\ensuremath{\xi} \quad \text{For molded case circuit breakers with stored energy mechanism}$
- ${\color{red} {\color{red} \angle}}$ 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.					
$I_{n} = 400A$	Accessory for	Version		Rated current I			Article No.
-	ETU320, ETU350,	Rating plugs for setting ($< I_{n \text{ max}}$)		400 A	¥ 4	<u>∠</u>	3VW9011-0AA53
	ETU360, ETU650, ETU660	the rated current I _n		630 A	§ 4	<u>∠</u>	3VW9011-0AA55
	E10000			800 A	§ 4	<u>∠</u>	3VW9011-0AA56
				1000 A	Ĭ _	<u>∠</u>	3VW9011-0AA57
				1250 A	 4	<u>∠</u>	3VW9011-0AA58
				1600 A	§ 4	<u>∠</u>	3VW9011-0AA61
	ETU 6-series	Rating plug without overload protection ($L = 0$	OFF)	400 A	š 4	<u>∠</u>	3VW9011-0LF53
		and for setting ($< I_{n \text{ max}}$) the rated current I_{n}		630 A	¥ 4	<u>∠</u>	3VW9011-0LF55
				800 A	¥ 4	<u>∠</u>	3VW9011-0LF56
				1000 A	¥ 4	<u>∠</u>	3VW9011-0LF57
				1250 A	š _	<u>∠</u>	3VW9011-0LF58
				1600 A	¥ 4	<u>∠</u>	3VW9011-0LF61
	ETU660	Rating plug Rc for ETU660 for enabling the residual current protective function and setting ($< I_{n \text{ max}} > I_{n \text{ max}}$) the rated current I_{n} . The residual current function is only possible with the MF Advanced measurement function.		400 A	¥ 4	<	3VW9011-0RC53
				630 A	š <u>4</u>	<u>∠</u>	3VW9011-0RC55
				800 A	¥ 4	<u> </u>	3VW9011-0RC56
		with the Mr Advanced measurement function	1.	1250 A	¥ _4	₹	3VW9011-0RC58
47	Can only be used breaker. This can a to the ETU 6-serie						
	Communication module	Protocol					Article No.
	COM040	PROFIBUS			¥ _	<u>∠</u>	3VW9011-0AT15
	COM041	PROFINET			¥ 4	<u>∠</u>	3VW9011-0AT14
	COM043	Modbus TCP			¥ 4	<u>∠</u>	3VW9011-0AT16
	COM042	Modbus RTU			š _	<u>∠</u>	3VW9011-0AT17
CB bus modules - I/C) modules external IO	M300					
	For snapping onto	DIN rail					
Or in	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	w 4	₹	3VW9011-0AT20
CB bus modules - I/C) modules internal IOI	M040					
12	When using a digi	tal I/O module IOM040, only 1 communication r	module can b	e used.			
	Accessory for	Maximum switching current per contact	Inputs	Outputs			Article No.
Бенения	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	w 4	₹	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 communication module, spring charging motor, closing coil and 1st shunt trip. Automatically included if the communication link 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 communication module. Can be combined with standard position signaling switches or ready-to-close signaling contacts. Note: Both signaling switches are automatically included in the basic circuit breaker (COM PSS only with withdrawable versions) if the communication link 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 into the test device On activation in the ETU 6-series, the parameters can be configured on the display Breaker data adapter TD410 3VW9011-0AT34 • As gateway for parameterization of the ETU with SENTRON powerconfig • For generation of a report of the set parameters with powerservice Test device and breaker data adapter TD420 3VW9011-0AT33 As gateway for parameterization of the ETU with SENTRON powerconfig Testing a tripping operation using SENTRON powerconfig • For use with the powerservice software Testing of the basic protective functions LSING Testing of the enhanced protective functions

Test data storageReadout of ETU buffer

- Generation of a report of the set parameters

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

Accessories for connection and insulation

nt terminals fo	r main circuit connecti	ons acc. to IEC 60947-2				
ont terminals to	 Acc. to IEC 6094 	7-2 for 3VA27 up to 1600 A (dependir parately for top and bottom	ng on application co	onditions)		
	Mounting	Version	Mounting onto	Number of poles/	quantity	Article No.
	Fixed-mounted	Front terminals for main circuit	-	3-pole/3 units	₹	3VW9011-0AL01
00 00		connection		4-pole/4 units	₹ <u>∡</u>	3VW9011-0AL02
4_4		Extended main terminals,	Front terminals	3-pole/3 units	₹ ∡	3VW9011-0AL77
		including insulation plate and phase barriers, standard	for main circuit connection	4-pole/4 units	₹ ∡	3VW9011-0AL78
		Broadened main terminals, including insulation plate and extended phase barriers	Front terminals for main circuit connection, top	3-pole/3 units	₹ ∡	3VW9011-0AL73
		·	Front terminals for main circuit connection, bottom	3-pole/3 units	§ <u>≼</u>	3VW9011-0AL75
			Front terminals for main circuit connection, top/ bottom	4-pole/4 units	¥ ≼	3VW9011-0AL74
0,0	Withdrawable	Front-accessible terminals for	Guide frame	3-pole/3 units	₹ 🚣	3VW9011-0AN01
		main circuit connection	flange	4-pole/4 units	w 🗹	3VW9011-0AN02
		Broadened main circuit	Front-accessible	3-pole/3 units	₹ <u>∡</u>	3VW9011-0AN73
3 50		connections	terminals for main circuit connection	4-pole/4 units	¥ <u>∡</u>	3VW9011-0AN74
r terminals for	main circuit connectio	ns acc. to IEC 60947-2				
	Acc. to IEC 6094To be ordered se	7-2 for 3VA27 up to 1600 A (dependir	ng 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	\ <u>∡</u>	3VW9011-0AL32
		connection, rotatable for horizontal/vertical connection, including terminal cover		4-pole/4 units	₹ ∡	3VW9011-0AL33
	Withdrawable	Rear terminals for main circuit	_	3-pole/3 units	₹ ∡	3VW9011-0AN32
		connection, rotatable for horizontal/vertical connection, including terminal cover		4-pole/4 units	¥ ∡	3VW9011-0AN33
		Broadened main terminals	Rear horizontal	3-pole/3 units	₹ ∡	3VW9011-0AN75
13 13 15 15 15 15 15 15 15 15 15 15 15 15 15			main connec- tions	4-pole/4 units	¥ <u>∡</u>	3VW9011-0AN76
l cable conne	ctions acc. to IEC 60947	7-2				
		7-2 for 3VA27 up to 1600 A (dependir parately for top and bottom	ng on application co	onditions)		
	Mounting	Version	Mounting onto	Number of poles/		Article No.
-	Fixed-mounted	Circular conductor terminals	Front terminals	3-pole/3 units	₹ ∡	3VW9011-0AL71
00 00		4 x 240 mm ² for front cable connection ¹⁾ , including insulation plate and high, extended terminal cover	for main circuit connection	4-pole/4 units	§ <u>≼</u>	3VW9011-0AL72
4.4	Withdrawable	Set of circular conductor	Rear vertical	3-pole/3 units	₹ ∡	3VW9011-0AN71
		connection pieces 4 x 240 mm ²	main connec-	4-pole/4 units	₹ ∡	3VW9011-0AN72

 $^{^{1)}\,}$ For connecting Al cables up to 1000 A

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

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

3VA27

3VW9011-0BB52



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

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

Terminal covers for fixed-mounted circuit breakers

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



Version	Number of poles/quantity			Article No.
Standard	3-pole/2 units	W	<u>∠</u>	3VW9723-0WD30
	4-pole/2 units	W	∠	3VW9724-0WD40
Extended	3-pole/2 units	W	∡	3VW9723-0WF30
	4-pole/2 units	W	<u>∡</u>	3VW9724-0WF40

Phase barriers for fixed-mounted breakers



- · Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately.

 • For operating voltages >440 V AC the use of phase barriers is mandatory; up to 440 V AC their use is optional.

	5, 1		
Height	Number of poles/quantity		Article No.
100 mm (standard)	3-pole/4 units	₹ ∡	3VW9723-0WA00
	4-pole/6 units	\ <u>∡</u>	3VW9724-0WA10
200 mm (extended)	3-pole/4 units	₹ ∡	3VW9723-0WA01
	4-pole/6 units	₹ ∡	3VW9724-0WA11

Supports for mounting the fixed-mounted breakers on the floor

• For fixed-mounted versions only



Article No. Mounting support standard 3VW9011-0BB51 (circuit breaker feet) (= Z option A07)

(circuit breaker feet) including mechanical transmission of switch position on circuit breaker side panel (= Z option S56)

- Mounting support extended 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)

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



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

Version	Use		Article No.
Extension kit for side wall	 Fixation for external auxiliary switches AUX 15 CO (3VW9011-0AG15) Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16), Mechanical interlock to 3WA/3WL/3VA (for 3VW9011-0BB21) 	¥ <u>∡</u>	3VW9011-0BB53

Spring charging motor (MO)

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

Motor operators and manual operators

						3VA27
A 400	Description		Voltage			Article No.
	For automatic charging of th	e stored energy mechanism	24 30 V AC/DC		₹ -	3VW9011-0AF01
1			48 60 V AC/DC		¥ -	3VW9011-0AF02
			100 130 V AC	/DC	≦ −	3VW9011-0AF03
			220 250 V AC	/DC	¥ -	3VW9011-0AF04
Mechanical operating	g 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 mechanism	n				
	Description	Version	Color	Degree of protection		Article No.
	Front mounted rotary	Standard	Gray	IP30	- <u>-</u>	3VW9727-0EK11
	operator incl. door sealing frame	EMERCENCY-OFF	Yellow-red	IP30	- <u>∡</u>	3VW9727-0EK15
	Door mounted rotary	Standard	Gray	IP30	- <u>-</u>	3VW9727-0FK21
	operator	EMERCENCY-OFF	Yellow-red	IP30	- <u>«</u>	3VW9727-0FK25
		Basic without handle		IP30	- <u>4</u>	3VW9727-0GK00
		Shaft stub		IP30	- <u>4</u>	8UD1900-3WD00
		Handle	Gray	IP30	- <u>-</u>	8UD1861-0AB11
			Yellow-red	IP30	- 🚣	8UD1861-0AB15

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

3VA27

Auxiliary release, closing coil

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 app 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 unit
 - LED DEACTIVATION LIT: Power supply failure, wire break
 - LED SHORT-CIRCUIT LIT: Winding short-circuit
- LED DEACTIVATION and SHORT-CIRCUIT FLASHING: Incorrect power supply
- LED DEACTIVATION and SHORT-CIRCUIT OFF: Closing coil/shunt trips OK

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

Auxiliary/signaling switches



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

Description	Contacts		Article No.
Ready-to-close signal RTC	1 CO standard	M –	3VW9011-0AH01
	1 CO digital	₹ -	3VW9011-0AH02
Auxiliary switch ON/OFF AUX	4 CO standard	₹ ∡	3VW9011-0AG01
	4 CO digital	₹ ∡	3VW9011-0AG02
	2 CO standard + 2 CO digital	¥ ≼	3VW9011-0AG03
External auxiliary switch ON/OFF AUX	15 CO standard	¥ <u>∡</u>	3VW9011-0AG05
	15 CO digital	₹ ∡	3VW9011-0AG06
Tripped signaling switch S24	1 CO standard	₹ ∡	3VW9011-0AH14
	1 CO digital	¾ ∡	3VW9011-0AH15
Spring charge signaling switch S21	1 CO standard	- W	3VW9011-0AH10
	1 CO digital	₹ -	3VW9011-0AH08
Position signaling switches PSS (only with withdrawable versions)	2 CO 2 CO 2 CO (connected test disconnected position) standard	¥ <u>∡</u>	3VW9011-0AH11
	2 CO 2 CO 2 CO (connected position) digital	ĭ <u>⊀</u>	3VW9011-0AH12

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

Auxiliary release, closing coil

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 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 Tripped signaling 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 auxiliary switch S26 (2 units) 1 NO standard, 250 V AC - 👱 3VW9727-0AA21 Fixation for external auxiliary switches AUX 15 CO • External auxiliary switches ON/OFF AUX 15 CO must be ordered separately. Article No. For fixed-mounted breakers with rear panel or floor mounting **₹** 3VW9011-0AG15 (in combination with Z option S56 or S57) For guide frames ₹ 🚣 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 4 3VW9011-0AE18 External time-delay devices for undervoltage releases • With adjustable delay time from 0.5 to 3 s. · Suitable for mounting onto DIN rail. Voltage 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 t	prevent movement of the withdrawable o	ircuit breaker		
	Version			Article No.
	RONIS cylinder lock (spare part for R78)		₹ <u>∡</u>	3VW9011-0BA80
	Padlock 8 mm (spare part for R65), for no	more than 3 padlocks	₩ ≰	3VW9011-0BA87
Locking mechanisn	s to prevent movement of the withdrawab	le circuit breakers in disconnected position		
	Only possible as a supplement in conju-	nction with R78 (3VW9011-0BA80) and/or R65 (3VW	/9011-0BA87).	
	Description			Article No.
	Locking mechanism (spare part for R79)		¥ ∡	3VW9011-0BA84
Locking provisions				
	 For fixed-mounted versions and withdra Against unauthorized closing in the ope The disconnector unit fulfills the condit 		c. to EN 60204-1.	
R	Description			Article No.
	w -	3VW9011-0BA33		
Locking provisions	in OFF position			
	 For fixed-mounted versions and withdre Against unauthorized closing in the ope The disconnector unit fulfills the condit 		c. to EN 60204-1.	
	Description	Version		Article No.
	Padlock 4 mm (spare part for S22)	Plastic for no more than 3 locks	M -	3VW9011-0BA41
	Padlock 7 mm (spare part for S23)	Metal for no more than 1 lock	¥ -	3VW9011-0BA42
	Padlock 8 mm (spare part for S07)	Metal for no more than 2 locks	¥ -	3VW9011-0BA44
Locking provision i	n OFF position for handle operating mechar			
		case of molded case circuit breakers with rotary ope	rator	
	Description For RONIS		- ≰	Article No. 3VW9727-0VL10
Locking provision in	n OFF position for handle operating mechar	nism without rotary operators		
	Against unauthorized closing in the open molded case circuit breakers without ro	erator panel in the case of		
	Description			Article No.
	For padlocks		- ∡	3VW9727-0LB10
	For RONIS		- ≰	3VW9727-0LF10
Interlocking sets fo	r mechanical Open and/or Close on the ope	rator panels		
	Description	Version		Article No.
	Padlock 4 mm (spare part for S42)	Plastic for no more than 3 locks	¥ -	3VW9011-0BA22
	Padlock 7 mm (spare part for S43)	Metal for no more than 1 lock	W -	3VW9011-0BA23
	Padlock 8 mm (spare part for S44)	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

Protective covers for mechanical ONOFF Mechanical ONOFF to protect against unintentional actuation on the operator panel. Not lockable. Description Not lockable (spare part for S41) Mechanical interlock with Bowden cable 2 m For freed-mounted versions, an additional support 3VW9011-08B52 (option S56) or extension kit 3VW9011-08B53 (option S57) must be ordered Mounting Mounting Mounting Mounting Mounting Fixed-mounted Rear panel or floor mounting Fixed-mounted Rear panel or floor mounting Type One required for each circuit breaker Type 1000 mm 3000 mm 4 raticle No. To prevent opening of the control cabinet door in ON position 1 cadditionally prevents the circuit breaker from being closed when the control cabinet door is open. Mounting Version Nounting Persion Article No. Article No. Article No. Type 1000 mm						3VA27
Postription Not lockable (spare part for S41) Not lock (spare part for S41) Not lockable (spare part for S41) Not lock (spare part for S41) Not loc	Protective covers	for mechanical ON/OFF				
Description Not lockable (spare part for 541)			o protect against unintentio	nal actuation on the operator panel.		
Not lockable (spare part for S41)						
Mechanical interlock **Mechanical interlock with Bowden cable 2 m** - For fixed-mounted versions, an additional support 3VW9011-08B52 (option \$56) or extension kit 3VW9011-08B53 (option \$57) must be ordered **Mounting** **Mounting** **Mounting** **Mounting** **Mounting** **Mounting** **Mounting onto guide frame** **Mounting onto guide frame** **Mounting onto guide frame** **Pore required for each circuit breaker** **Type** - Article No 3VW9011-08B23 - 3000 mm - 1t additionally prevents the circuit breaker from being closed when the control cabinet door is open. **Mounting** **Por prevent opening of the control cabinet door in ON position** - It additionally prevents the circuit breaker from being closed when the control cabinet door is open. **Mounting** **Por prevent opening of floor** - To prevent opening of floor** - Direct fixed interlocking						
Mechanical interlock with Bowden cable 2 m For fisked-mounted versions, an additional support 3W9011-08B52 (option \$56) or extension kit 3W9011-08B52 (option \$57) must be ordered Mounting	1	Not lockable (spare part	for S41)		¥ -	3VW9011-0BA21
Por fixed-mounted versions, an additional support 3WM9011-08852 (option S56) or extension kit 3WW9011-08B53 (option S57) must be ordered Mounting Mounting Fixed-mounted Rear panel or floor mounting \$ \frac{1}{2} \text{ 3VW9011-08B21}\$ Withdrawable Mounting onto guide frame \$ \frac{1}{2} \text{ 3VW9011-08B22}\$ Bowden cables, separate Pome required for each circuit breaker Type	Mechanical interl	ock				
extension kit 3VW9011-0BB53 (option S57) must be ordered Mounting Mounting Fixed-mounted Rear panel or floor mounting Withdrawable Mounting onto guide frame *** 3VW9011-0BB22 *** 3VW9011-0BB22 *** 3VW9011-0BB22 *** 3VW9011-0BB22 *** 3VW9011-0BB23 *** 3VW9011-0BB13 *** 4 3VW9011-0BB16 *** 4 3VW9011-0BB16 *** 5 3VW9011-0BB18 *	E					
Mounting Mounting Rear panel or floor mounting						
Fixed-mounted Rear panel or floor mounting Bowden cables, separate - One required for each circuit breaker Type - One required for each circuit breaker - On	看知			be ordered	_	Article No
Bowden cables, separate • One required for each circuit breaker Type 1000 mm 1000 mm 2000 mm 3000 mm 400 mm 400 mm 4000 mm	国· 例			ounting	₹ ∡	
One required for each circuit breaker Type Article No. 1000 mm 3000 mm 40 mode and a second a sec			•			
• One required for each circuit breaker Type 1000 mm 2000 mm 3000 mm 3000 mm 4 To prevent opening of the control cabinet door in ON position Locking mechanisms to prevent opening of the control cabinet door in ON position • To prevent opening of the control cabinet door in ON position • It additionally prevents the circuit breaker from being closed when the control cabinet door is open. Mounting • To prevent opening of the control cabinet door in ON position • It additionally prevents the circuit breaker from being closed when the control cabinet door is open. Mounting • To prevent opening of the control cabinet door in ON position • It additionally prevents the circuit breaker from being closed when the control cabinet door is open. Mounting • To prevent opening of the control cabinet door in ON position • It additionally prevents the circuit breaker from being closed when the control cabinet door is open. Article No. Direct fixed interlocking ■ ∠ 3VW9011-08B10 E	2	Withdiawable	Mounting onto gaide	name	` -	3 7 7 7 0 1 1 - 0 0 0 2 2
Protective covers IP54 Type Article No. Article No. Article No. Article No. 3VW9011-0BB23 3VW9011-0BB23 3VW9011-0BB23 3VW9011-0BB23 3VW9011-0BB23 3VW9011-0BB23 3VW9011-0BB25 3VW9011-0BB26-0AA0 3WL9111-0BB46-0AA0 Bull 11-0BB46-0AA0 Locking mechanisms to prevent opening of the control cabinet door in ON position I ta dditionally prevents the circuit breaker from being closed when the control cabinet door is open. Mounting Version Article No. Fixed mounted on side panel or floor Direct fixed interlocking Article No. Direct fixed interlocking Article No. Direct fixed interlocking Article No. Door sealing frames IP30 Door sealing frames IP30 Protective cover IP54 3VW9011-0AP03 or 3VW9011-0AP013. Description Mounting Version Article No. Spare part for Z option T30. Fixed-mounted Withdrawable Protective cover IP54 Withdrawable Protective cover/hood IP54 lockable for fixed-mounted breakers and withdrawable breakers For implementing degrees of protection IP4x and IP54 when installing in switchboard door. For cannot be combined with IP30 door sealing frame and door mounted rotary operator. Description Version Article No.	Rowden cables se	anarate				
Type 1000 mm 2000 mm 30W9011-08B23 3WU-9111-08B45-0AA0 3000 mm 1 To prevent opening of the control cabinet doors in ON position 1 ta dditionally prevents the circuit breaker from being closed when the control cabinet door is open. 1 ta dditionally prevents the circuit breaker from being closed when the control cabinet door is open. 1 ta dditionally prevents the circuit breaker from being closed when the control cabinet door is open. 1 ta dditionally prevents the circuit breaker from being closed when the control cabinet door is open. 1 ta dditionally prevents the circuit breaker from being closed when the control cabinet door is open. 1 ta dditionally prevents the circuit breaker from being closed when the control cabinet door is open. 1 ta dditionally prevents the circuit breaker from being closed when the control cabinet door is open. 2	bowden cables, se	<u> </u>	circuit breaker			
1000 mm 2000 mm 3000 mm To prevent opening of the control cabinet doors in ON position It additionally prevents the circuit breaker from being closed when the control cabinet door is open. Mounting Version Article No. Fixed mounted on side panel or floor Direct fixed interlocking					_	Article No.
2000 mm 3000 m						
3000 mm To prevent opening of the control cabinet door in ON position		2000 mm				3WL9111-0BB45-0AA0
Locking mechanisms to prevent opening of the control cabinet doors in ON position • To prevent opening of the control cabinet door in ON position • It additionally prevents the circuit breaker from being closed when the control cabinet door is open. Mounting Version Article No.		3000 mm				
It additionally prevents the circuit breaker from being closed when the control cabinet door is open. Mounting Version	Locking mechanis	ms to prevent opening of th	ne control cabinet doors in	ON position		
Mounting Version Article No.	ot/	To prevent opening o	f the control cabinet door in	ON position		
Fixed mounted on side panel or floor Direct fixed interlocking	80				is open.	
Locking with Bowden cable Withdrawable Direct fixed interlocking Locking with Bowden cable Direct fixed interlocking Locking with Bowden cable Version Article No. Spare part for Z option T30. Withdrawable Protective cover IP54 Protective cover/hood IP54 lockable for fixed-mounted breakers and withdrawable breakers For implementing degrees of protection IP4x and IP54 when installing in switchboard door. Cannot be combined with IP30 door sealing frame and door mounted rotary operator. Description Lock with unique key Locking with Bowden cable Version Article No. 3∨W9011-0AP01 Article No. Symposite No. Article No. Article No. Article No. Pescription Lock with unique key IP54 Article No. Article No.	0	Mounting		Version		Article No.
Withdrawable Direct fixed interlocking Locking with Bowden cable For IP4x and higher, you must order the protective cover IP54 3VW9011-0AP03 or 3VW9011-0AP13. Pescription Spare part Fixed-mounted IP3x IP3x IP3x IP3x IP3x IP3x IP3x IP3x		Fixed mounted on side p	oanel or floor	Direct fixed interlocking	₹	3VW9011-0BB10
Locking with Bowden cable Locking with Locking wit	5			Locking with Bowden cable	₹ 🚣	3VW9011-0BB16
Door sealing frames IP30 • For IP4x and higher, you must order the protective cover IP54 3VW9011-0AP03 or 3VW9011-0AP13. Description Mounting Version Article No. Spare part Fixed-mounted IP3x \$ 4 3VW9011-0AP01 for Z option T30. Withdrawable IP3x \$ - 3VW9011-0AP02 — 3VW9011-0AP02 Protective covers IP54 • Protective cover/hood IP54 lockable for fixed-mounted breakers and withdrawable breakers • For implementing degrees of protection IP4x and IP54 when installing in switchboard door. • Cannot be combined with IP30 door sealing frame and door mounted rotary operator. Description Version Article No. Lock with unique key IP54 \$ 4 3 3VW9011-0AP03	of s	Withdrawable		Direct fixed interlocking	₹ ∡	3VW9011-0BB14
For IP4x and higher, you must order the protective cover IP54 3VW9011-0AP03 or 3VW9011-0AP13. Description				Locking with Bowden cable	₹ 🚣	3VW9011-0BB18
Description Mounting Version Article No. Spare part Fixed-mounted IP3x	Door sealing fram					
Spare part for Z option T30. Fixed-mounted IP3x			<u> </u>		1-0AP13.	
Frotective covers IP54 Protective covers IP54						
Protective covers IP54 Protective cover/hood IP54 lockable for fixed-mounted breakers and withdrawable breakers For implementing degrees of protection IP4x and IP54 when installing in switchboard door. Cannot be combined with IP30 door sealing frame and door mounted rotary operator. Description Version Article No. Lock with unique key IP54 3 VW9011-0AP03					 	
Protective covers IP54 Protective cover/hood IP54 lockable for fixed-mounted breakers and withdrawable breakers For implementing degrees of protection IP4x and IP54 when installing in switchboard door. Cannot be combined with IP30 door sealing frame and door mounted rotary operator. Description Version Article No. Lock with unique key IP54 3VW9011-0AP03		101 Z Option 130.	Withdrawable	IP3x	¥ -	
 Protective cover/hood IP54 lockable for fixed-mounted breakers and withdrawable breakers For implementing degrees of protection IP4x and IP54 when installing in switchboard door. Cannot be combined with IP30 door sealing frame and door mounted rotary operator. Description Lock with unique key IP54 Article No. 3VW9011-0AP03 					- 🛎	3VW9011-0AP04
For implementing degrees of protection IP4x and IP54 when installing in switchboard door. Cannot be combined with IP30 door sealing frame and door mounted rotary operator. Description Version Article No. Lock with unique key IP54 ✓ 3VW9011-0AP03	Protective covers					
Cannot be combined with IP30 door sealing frame and door mounted rotary operator. Description Version Article No. Lock with unique key IP54 ✓ 3VW9011-0AP03						
DescriptionVersionArticle No.Lock with unique keyIP54			•			
Lock with unique key IP54 § ∡ 3VW9011-0AP03			The second secon	2 1		Article No.
	•				₹ ∡	
		Lock with standard key				

 $[\]mbox{\colored}$ 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.

Documents available for downloading:

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

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



A/2

A/4



Conditions of sale and delivery

1. General Provisions

By using this catalog you can purchase products (hardware, software and services) described therein from Siemens Aktiengesellschaft subject to the following Terms and Conditions of Sale and Delivery (hereinafter referred to as "T&C"). Please note that the scope, the quality and the conditions for supplies and services, including software products, by any Siemens entity having a registered office outside Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. The following T&C apply exclusively for orders placed with Siemens Aktiengesellschaft, Germany.

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

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

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for stand-alone software products and software products forming a part of a product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office in Germany"¹⁾ and/or
- for consulting services the "Allgemeine Geschäftsbedingungen für Beratungsleistungen der Division DF – Deutschland" (available only in German) and/or
- for other services, the "Supplementary Terms and Conditions for Services ("BL")¹⁾ and/or
- for other supplies the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾.

In case such supplies should contain Open Source Software, the conditions of which shall prevail over the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾, a notice will be contained in the scope of delivery in which the applicable conditions for Open Source Software are specified. This shall apply mutatis mutandis for notices referring to other third party software components.

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

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

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for consulting services the "Standard Terms and Conditions for Consulting Services of the Division DF for Customers with a Seat or Registered Office Outside of Germany"¹⁾ and/or
- for other services the "International Terms & Conditions for Services"¹⁾ supplemented by "Software Licensing Conditions"¹⁾ and/or
- for other supplies of hard- and software the "International Terms & Conditions for Products"¹⁾ supplemented by "Software Licensing Conditions"¹⁾

1.3 For customers with master or framework agreement

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

2. Additional Terms and Conditions

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

Illustrations are not binding.

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

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

3. Export Regulations

We shall not be obligated to fulfill any agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes and/or other sanctions.

Export may be subject to license. We shall indicate in the delivery details whether licenses are required under German, European and US export lists.

Our products are controlled by the U.S. Government (when labeled with "ECCN" unequal "N") and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations. Products labeled with "AL" unequal "N" are subject to European/national export authorization.

The export indications can be viewed in advance in the description of the respective goods on the Industry Mall, our online catalog system. Only the export labels "AL" and "ECCN" indicated on order confirmations, delivery notes and invoices are authoritative.

Products without label, with label "AL:N"/"ECCN:N", or label "AL:9X9999"/"ECCN: 9X9999" may require authorization from responsible authorities depending on the final end-use, or the destination.

If you transfer goods (hardware and/or software and/or technology as well as corresponding documentation, regardless of the mode of provision) delivered by us or works and services (including all kinds of technical support) performed by us to a third party worldwide, you shall comply with all applicable national and international (re-)export control regulations. In any event of such transfer of goods, works and services you shall comply with the (re-) export control regulations of the Federal Republic of Germany, of the European Union and of the United States of America.

Prior to any transfer of goods, works and services provided by us to a third party you shall in particular check and guarantee by appropriate measures that

- there will be no infringement of an embargo imposed by the European Union, by the United States of America and/or by the United Nations by such transfer, by brokering of contracts concerning those goods, works and services or by provision of other economic resources in connection with those goods, works and services, also considering the limitations of domestic business and prohibitions of by-passing those embargos;
- such goods, works and services are not intended for use in connection with armaments, nuclear technology or weapons, if and to the extent such use is subject to prohibition or authorization, unless required authorization is provided;
- the regulations of all applicable Sanctioned Party Lists of the European Union and the United States of America concerning the trading with entities, persons and organizations listed therein are considered.

If required to enable authorities or us to conduct export control checks, you, upon request by us, shall promptly provide us with all information pertaining to the particular end customer, the particular destination and the particular intended use of goods, works and services provided by us, as well as any export control restrictions existing.

You acknowledge that under the EU embargo regulations against Iran, Syria and Russia respectively the sale of certain listed goods and related services is subject to authorization by the competent export control authorities of the European Union. If (1) the goods or services ordered by you are destined for Iran, Syria or Russia, and (2) the contract for our supplies and/or services is subject to prior authorization of the competent export control authorities of the European Union, the contract between you and us shall come into force in this respect only upon granting of such authorization.

The products listed in this catalog may be subject to European/ German and/or US export regulations. Any export requiring approval is therefore subject to authorization by the relevant authorities. Errors excepted and subject to change without prior notice.

A

Link directory

Catalog LV 10

General information

Information on low-voltage power distribution and electrical installation technology	www.siemens.com/lowvoltage
Tender specifications	www.siemens.com/lowvoltage/tenderspecifications
Conversion tool	www.siemens.com/conversion-tool
Image database	www.siemens.com/lowvoltage/picturedb
CAx download manager	www.siemens.com/cax
Newsletter system	www.siemens.com/lowvoltage/newsletter
Siemens YouTube channel	www.youtube.com/Siemens
Catalogue LV 10	www.siemens.com/lv10
Catalogue LV 18	www.siemens.com/lv18
Brochures/catalogs	www.siemens.com/lowvoltage/catalogs
Operating instructions/manuals	www.siemens.com/lowvoltage/manuals
Siemens Industry Online Support (SIOS)	www.siemens.com/lowvoltage/product-support
Siemens Industry Online Support app	www.siemens.com/support-app
My Documentation Manager (MDM)	www.siemens.com/lowvoltage/mdm
Configurators	www.siemens.com/lowvoltage/configurators
Siemens Industry Mall – product catalog and online ordering system	www.siemens.com/lowvoltage/mall
Direct forwarding to the Industry Mall	www.siemens.com/product?Article No.
Training	www.siemens.com/sitrain-lowvoltage
Local contacts	www.siemens.com/lowvoltage/contact
	www.siemens.com/lowvoltage/components/contact
	www.siemens.com/lowvoltage/systems/contact
	www.siemens.com/lowvoltage/software/contact
Technical Support	www.siemens.com/support-request
Information on services	www.siemens.com/service-catalog
Manual for the generation, transmission and distribution of electrical energy	www.siemens.com/power-engineering-guide
Control panels for the North American market	www.siemens.com/northamerican-standards
Control panel building	www.siemens.com/controlpanel
Energy savings and amortization	www.automation.siemens.com/sinasave
SIMATIC Energy Suite	www.siemens.com/energysuite
SITOP power supplies	www.siemens.com/sitop
Power distribution with Totally Integrated Power	www.siemens.com/tip

Catalogs and further information



LV 10 Low-Voltage Power Distribution and Electrical Installation Technology SENTRON • SIVACON • ALPHA

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

PDF (E86060-K8280-A101-B5-7600)



ET D1 Switches and Socket Outlets DELTA

PDF



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

PDF (E86060-K8280-E347-A9-7600)



Industry Mall
Information and Ordering Platform
on the Internet:

www.siemens.com/industrymall



IC 10 Industrial Controls SIRIUS

PDF (E86060-K1010-A101-B3-7600)



SITRAIN
Digital Industry Academy
www.siemens.com/sitrain



Siemens TIA Selection Tool

for the selection, configuration and ordering of TIA products and devices

www.siemens.com/tst

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

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

Get more information

www.siemens.com/lowvoltage

Published by Siemens AG

Smart Infrastructure Electrical Products Siemensstraße 10 93055 Regensburg, Germany

For the U.S. published by Siemens Industry Inc.

100 Technology Drive Alpharetta, GA 30005 United States

PDF (Catalog Extract E86060-K8280-A101-B5-7600) KG 0622 92 En Produced in Germany © Siemens 2022

Security information

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

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

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

For additional information on industrial security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity.

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

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

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

All product designations may be trademarks or other rights of Siemens AG, its affiliated companies or other companies whose use by third parties for their own purposes could violate the rights of the respective owner.