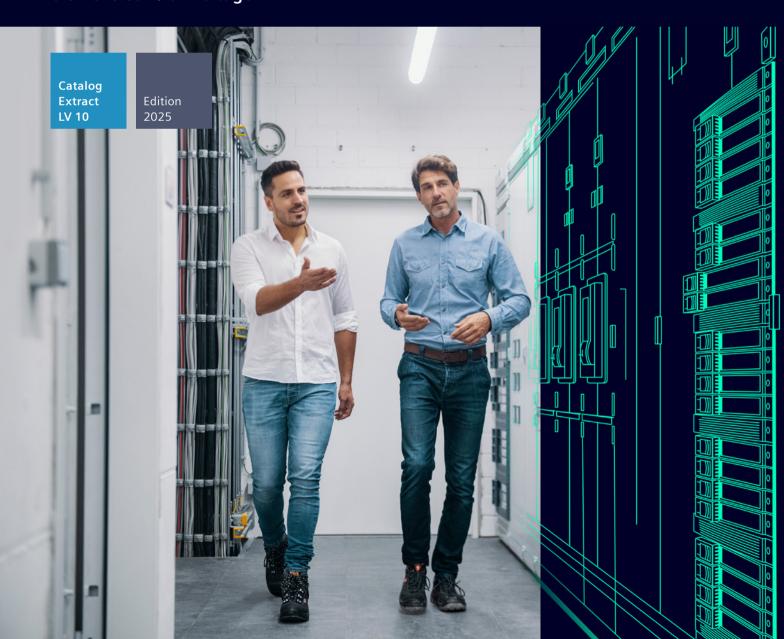
### **SIEMENS**

**SENTRON • SIVACON • ALPHA** 

# Low-Voltage Power Distribution and Electrical Installation Technology

Molded Case Circuit Breakers

siemens.com/lowvoltage

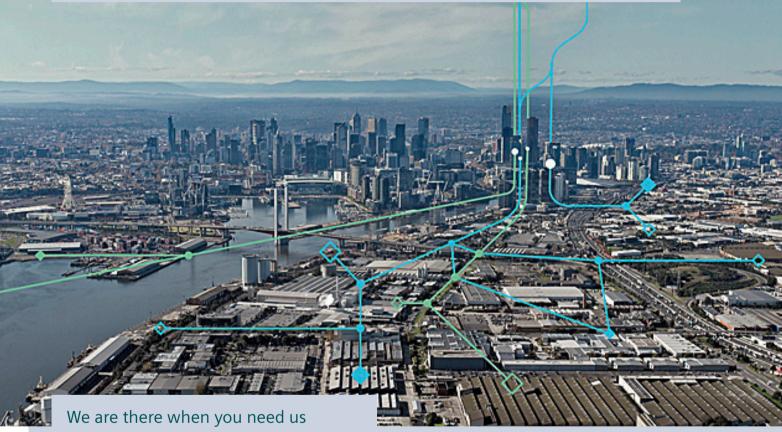


## Innovative solutions for industrial controls and power distribution

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

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

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#### Catalog LV 10 · 2025

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

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



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

The certificate is recognized by all IQNet countries.

#### Technical specifications

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

All illustrations are not binding.

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### One system. For all applications.

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

Comprehensively certified. Deployable worldwide.

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



#### Note:

Products bearing our Siemens EcoTech label are identified by this clickable symbol in the catalog:



www. siemens. com/lowvoltage/Siemens Eco Tech

### Molded Case Circuit Breakers

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### A multitude of additional information ...

### Information + ordering



### All the important things at a glance

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



### Your product in detail

The SiePortal platform (knowledge base) provides comprehensive information

www.siemens.com/lowvoltage/product-support

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

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

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



#### Siemens YouTube channel

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



#### **Smart Control Panel Design**

With the Smart Control Panel Design in the TIA Selection Tool, it is possible to design and dimension the electrical equipment of a machine in conformity with the standards – from the suitable switching devices to the correctly dimensioned cables

www.siemens.com/controlpanel/cpd



#### Everything you need for your order

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

• Molded case circuit breakers sie.ag/2mmLcAk

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

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

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



### Configurators

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

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

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

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



### The fast track to the experts

### Contact persons in your region

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

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

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

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

### ... can be found in our online services

### **Commissioning + operation**



#### **SENTRON Powerconfig**

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

Free download SENTRON Powerconfig www.siemens.com/powerconfig

Free download SENTRON Powerconfig mobile via App Store and Play Store



#### Your product in detail

The SiePortal platform (knowledge base) provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- · Characteristic curves
- Certificates

Online Support app available for download from the App Store and Play Store

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

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

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

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

### **Manuals**

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

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



### Face-to-face or online training

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

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



### Technical overview - Molded case circuit breakers



### The fast way to get you to our online services

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

## Molded case circuit breakers and switch disconnectors for all applications



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  $+50 \, ^{\circ}\text{C}$
- Optimized for distribution boards (45 mm cover size)
- Universal platform of accessories
- 1, 2, 3 or 4-pole versions
- Rated current range of 1 ... 1000 A



3VA20 ... 3VA26 molded case circuit breakers

## The power to deliver in demanding applications

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

#### **Special features**

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



3VA27 molded case circuit breaker

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

#### **Special features**

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

## Molded case circuit breakers, switch disconnectors and accessories













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

#### Accessories

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

<sup>■</sup> Available

<sup>-</sup> Not available/not present

















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

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** 

				ESESE!						T. Section 1		
				3VA10	)		3VA11			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 <sub>n</sub> at	50 °C ambient temperature	А		16 100	)		16 160	)		16 160	)	
Rated operational v	voltage U <sub>e</sub> 50/60 Hz AC	V		690			415			415		
Rated insulation vo	oltage <i>U</i> <sub>i</sub>	V		800			500			500		
Rated impulse with	nstand voltage U <sub>imp</sub>	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 <sub>cu</sub>											
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 <sup>2)</sup>	kA	-	-	-	-	-	-	-	-	-	
Rated service sho	rt-circuit breaking capacity I <sub>cs</sub>											
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 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 <sup>2)</sup>	kA	-	-	-	-	-	-	-	-	-	
Dimensions					- ()							
A   A   C   - 2	A	mm	76.2 (	(3P)   101	.6 (4P)		25.4			50.8		
B B B C C C C C C C C C C C C C C C C C	В	mm		130			130			130		
NSEO STATE OF THE PROPERTY OF	C	mm		70			70			70		
	D	mm		88			88			88		

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

<sup>&</sup>lt;sup>2)</sup> For  $I_n = 630 \text{ A}/800 \text{ A}$ 

<sup>&</sup>lt;sup>3)</sup>  $I_n$  125 A, 160 A:  $I_{cu}/I_{cs}$  = 36 kA/36 kA

<sup>■</sup> Available

<sup>-</sup> Not available/not present











3VA11				3VA12			3VA13				3VA14				3VA15			
	3/4-	pole			3/4-pole			3/4-	pole			3/4-	pole			3/4-pole		
		60			250				00				30			1000		
		. 160		1	160 25	0			400			500.				630 1000	)	
	6	90			690			6'	90			69	90		690			
		00			800				00				00		800			
		8			8		8				8					8		
	1				•		•									≤ 500		
	0	400			0 400			0	400			0	400			0 400		
N	S	М	Н	S	M	н	S	M	Н	С	S	M	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 <sup>3)</sup>	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	-	-	-	
-	-	-	-	-	-	-	-	-	-	-					50	85	100	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	35	50	
36	55	85	100	55	85	100	55	85	100	200	55	85	100	200	85	100	150	
25	36	55	70	36	55	70	36	55	70	110	36	55	70	110	55	70	85	
16	25	36	403)	25	36	36	36	55	70	110	36	55	70	110	55	70	70	
5	5	5	5	10	10	10	25	36	55	70	25	36	55	70	36	55	65	
5	5	5	5	5	5	5	5	5	6	6	5	5	6	6	19	19	19	
16	25	30	30	55	85	100	8	16	25	25	8	16	25	25	-	-	-	
36	55	85	100	55	85	100	8	16	25	25	8	16	25	25	35	50	100	
36	55	85	100	55	85	100	8	16	25	25	8	16	25	25	35	50	100	
16	25	36	55	25	36	55	8	16	25	25	8	16	25	25	-	-	-	
-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	50	85	100	
					-		-	-	-	-		-	-	25	35	50		
				405	(20)   1	2 (40)		420 (22)	1406/1	,		420 (22)	1404/4			2 (20) 1 22	(AD)	
76		101.6 (4	IP)	105	(3P)   140	J (4P)	138 (3P)   184 (4P)				138 (3P)   184 (4P)			)	210 (3P)   280 (4P)			
		30			158				48				18		320			
		70			70				10				10			120		
	8	88			88		137					1.	37		253			

System overview, page 2/20

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

Application

			J.			
			3VA10	3VA11	3VA11	
Electrical characteristics	according to IEC 60947-2					
Number of poles			3/4-pole	1-pole	2-pole	
Size		А	100	160	160	
Rated current I <sub>n</sub> at 50 °C ar	•	А	16 100	16 160	16 160	
3VA1 molded case circui	t breakers for line protection, st	andard applications (IEC 6	50947-2)			
Service life/endurance (c						
Mechanical (CLOSE-OPEN	cycles)		20000	20000	20000	
Electrical	380 415 V	I <sub>n</sub>	9000	9000	9000	
		I <sub>n</sub> /2	15000	15000	15000	
	690 V		6300	6300	6300	
Trip units						
TM210	FTFM					
TM220	ATFM		-	-	-	
TM240	ATAM		-	-	-	
3VA1 molded case circui	t breakers for starter protection	(standards and specificat	ions acc. to IEC 60947-2,	annex O)		
Rated current I <sub>n</sub> at 50 °C ar	mbient temperature	A	-	-	-	
Service life/endurance (c	operating cycles)					
Mechanical (CLOSE-OPEN	cycles)		-	-	-	
Electrical	380 415 V		-	-	-	
Trip units						
TM120M	AM		-	-	-	
Switch disconnectors (IE	C 60947-3)					
Electrical characteristics	according to IEC 60947-3					
Rated uninterrupted curre	nt I <sub>u</sub> at 50 °C ambient temperatur	e A	-	-	-	
Rated operational voltage	U <sub>e</sub> 50/60 Hz AC	V	-	-	-	
Rated operational voltage	$U_{\rm e}$ DC	V	-	-	-	
Rated conditional short-cir with upstream 3VA1 circuit		kA	-	-	-	
Permissible rated short-tin	ne current I <sub>cw</sub> (1 s)	kA	-	-	-	
■ Available — Not a	vailable/not present					



System overview, page 2/20

## 3VA2 molded case circuit breakers up to 1600 A

### Technical specifications







				3V/	120			2	VA2	1			2	VA2	2		
EL				3 V F	120			3	VAZ				3	VAZ			
	stics according to IEC 60947-2			2/4				7	./4				_	14			
Number of poles		Δ.			pole			3	1/4-pol	e			3/4-pole				
Size		A		10				21	160	-0			250				
Rated current I <sub>n</sub>	14 F0/60 H AG	A	25 100 690					2:	5 16	00		160 250					
Rated operational vol	3	V							690					690			
Rated insulation volta		V	800						800					800			
Rated impulse withsta	and voltage $U_{\rm imp}$	kV			3				8					8			
Use in IT networks (breaking capacity acc	c. to IEC 60947-2, annex H)	V			•							•					
Frequency		Hz		50	160				50/60					50/60	)		
Breaking capacity (li	ine protection)		М	Н	С	L	М	Н	С	L	E	М	н	С	L	E	
Rated ultimate short	t-circuit breaking capacity I <sub>cu</sub>																
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 <sub>cs</sub>																
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																	
<b>→</b>   D   <b>→</b>	A	mm	10	5 (3P)	140 (4	1P)		105 (3	P)   14	10 (4P	)		105 (3	3P)   14	40 (4P	)	
A C E	В	mm		18	31				181					181			
NSE 0.0188	С	mm		8	6				86					86			
	D	mm		10	07				107					107			

<sup>&</sup>lt;sup>1)</sup> Valid for  $I_{\rm n}$  = 400 A, 500 A; for  $I_{\rm n}$  = 630 A,  $I_{\rm cs}$  = 65 kA applies

<sup>■</sup> Available — Not available/not present











3VA23						3	VA2	4			3VA25			3VA26		3VA27		
		8/4-pole	<u> </u>			:	3/4-pole	<b>a</b>			3/4-pole			3/4-pole			3/4-pole	_
		400	-				630	_			1000			1250			1600	
	25	50 40	00			4(	00 63	30		(	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	
М	Н	С	L	Е	М	Н	С	L	Е	М	Н	С	М	Н	С	М	Н	С
85	110	150	200	_	85	110	150	200	_	85	110	200	85	110	200	100	150	200
55	85	110	150	200	55	85	110	150	200	55	85	110	55	85	110	55	85	110
55	85	110	_	_	55	85	110	_	_	55	85	110	55	85	110	55	85	100
36	55	85	_	_	36	55	85	_	_	36	55	85	36	55	85	36	55	85
5	5	5	25	85	6	6	6	25	85	25	35	35	25	35	35	25	36	50
 _	_	_	_	_						_	_	_	-	_	_	-	_	_
_	_	_	_	_	_						_	-	-	-	_	-	_	_
_	-	_	_	_	_	_	_	-	_	-	-	-	-	-	_	-	_	_
_	_	_	_	_	-	_	-	-	_	-	-	-	-	-	_	-	-	-
85	110	150	200	-	85	110	150	200	-	85	110	150	85	110	150	100	150	200
55	85	110	150	200	55	85	110	150	200	55	85	85	55	85	85	55	85	110
55	85	110	-	-	55	85	110	-	-	55	70	70	55	70	70	55	85	100
36	55	65	-	-	36	55	85 <sup>1)</sup>	-	-	36	55	65	36	55	65	36	55	63
5	5	5	18	65	6	6	6	18	65	19	19	19	19	19	19	25	36	36
-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138 (3P)   184 (4P)						138 (3	3P)   18	4 (4P)		210	(3P)   280	(4P)	210	(3P)   280	(4P)	210	(3P)   280	(4P)
248						(-	248	()			320	. ,		320	, ,	2.0	291	` '
		110			110					120			120		n 183	nandle ope nechanism) (stored end ting mecha	l ergy	
		137			137				253				253		225			

## 3VA2 molded case circuit breakers up to 1600 A

Application







			3VA20	3VA21	3VA22	
Electrical characteristic	s according to IEC 60947-2					
Number of poles	-		3/4-pole	3/4-pole	3/4-pole	
Size		Α	100	160	250	
Rated current I <sub>n</sub>		Α	25 100	25 160	160 250	
Service life/endurance (	(operating cycles)					
Mechanical (OPEN-CLOSI	E cycles)		25000	25000	25000	
Electrical	380 415 V I <sub>n</sub>		15000	14000	12000	
	I <sub>n</sub> /2		20000	20000	17000	
	690 V		10500	9800	7200	
Trip units						
ETU320	LI					
ETU330	LIG					
ETU340	ELISA LI		-			
ETU350	LSI					
ETU550/ETU850	LSI					
ETU560/ETU860	LSIG					
ETU650	LSI		-	-	-	
ETU360	LSIG		-	-	-	
ETU660	LSIG		-	-	-	
3VA2 molded case circu	it breakers for motor/starter prote	ction (IEC 6	60947-4-1 standards and spe	ecifications)		
Rated current I <sub>n</sub> at 50 °C	ambient temperature	Α	-	25 100	160 200	
Service life/endurance (	(operating cycles)					
Mechanical (CLOSE-OPEN	v cycles)		-	25000	25000	
Electrical	380 415 V		-	14000	12000	
Trip units						
ETU310M	T.		-	•	•	
ETU350M	LSI		-	•	•	
ETU550M	LSI		-	•	•	
ETU860M	LSIG		-	•	•	
ETU320	LI		-	-	_	
ETU350	LSI		-	-	-	
ETU360	LSIG		-	-	-	
ETU650	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	8000	7000	7000	-
4200	3500	3200	3200	-
•	•		•	
				-
•	•	•	•	-
•	•			-
				-
-	-	-	-	
-	-	-	-	
-	-	-	-	
250	400 500	630 800	-	800 1600
20000	20000	10000	-	10000
6000	5000 (400 A) 3000 (500 A)	4600	-	2000
		-	-	-
-	-		-	-
			_	-
			_	-
-	-	-	-	
-	-	-	-	
-	_	-	-	
-	_	-	-	
_	_	-	_	

### Trip units

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

Trip units	Thermal-magnetic	Electronic	Electronic with display	Electronic with display and metering function
	TM240  1,/A  1,/A  1,/A  1,/A	ETU350 LSI 1/A t/s t,=1 t,/s t,=xt   ACT   ALZ   88 8 2 1	ETUSSOM LSI  A ESC COM DATA  OK 0 CM  O	ETU860M LSIG  A ESC COM W A SC CO
Due to etimo finantia a	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
Metering function	-	-	-	Metering function integrated
Optional expansions				
24 V module	-	-	24 V module for continuous power supply (also without primary current through the molded case circuit breaker)	24 V module for continuous power supply (also without primary current through the molded case circuit breaker)
External function box				
	-	EFB300 external function box for connection to the ETU	EFB300 external function box for connection to the ETU	EFB300 external function box for connection to the ETU
Communications module			COM060 communications	COM060 communications module
			module	COMOGO COMMUNICATIONS 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	DSP800 external display for
			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
Protection				
Starter protection		-	-	-
Line protection	-		•	•
Version available with				
1-pole and 2-pole breakers	-		-	-
3-pole breaker				•
4-pole breaker	-		•	•
Available protection parameters				
I <sub>r</sub> adjustable	-	-	•	
I <sub>i</sub> adjustable		-	-	•
I <sub>r</sub> fixed	-	•	-	-
I <sub>i</sub> fixed	-		•	-
I <sub>N</sub> 1)	-		-	

 $<sup>^{3)}</sup>$  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
	1	LI	LIG	ELISA®	LSI	LSI	LSI	LSI	LSIG	LSI	LSIG	LSIG
Protection												
Starter protection		-	-	-	-	-	-	-	-	-	-	-
Motor protection	-	-	-	-	-		-		-	-	-	
Line protection	-					-		-				-
Generator protection	-			-		-		-				-
Version available with												
3-pole without external neutral conductor transformer	•	•	•	•	•	•	-	-	-	-	-	•
3-pole with external neutral conductor transformer	-	-	-	-	-	-	•	-	•	•	•	-
4-pole with protected neutral conductor transformer	-	•	•	•	•	-	•	-	•	•	•	-
Available protection parameters												
Characteristic in L range	I <sup>2</sup> t	I <sup>2</sup> t	I²t	I <sup>4</sup> t	I²t	I²t	I²t	I <sup>2</sup> t	I²t	I²t	I <sup>2</sup> t	I <sup>2</sup> t
I <sub>r</sub>	-											
$t_{\rm r}$ at 6 × $I_{\rm r}$	-			-		-		-				-
t <sub>c</sub>	-	-	-	-	-		-		-	-	-	
$t_{\rm p}$	-	-	-	-	-	-	-		-	-	-	
Thermal memory												
Thermal memory can be switched on/off	-	-	-	-	-	-	•	-	•	•	•	-
I <sub>sd</sub>	-	-	-	-								
$t_{\rm sd}$ at 8 × $I_{\rm r}$	-	-	-	-								
Characteristic in S range: I <sup>2</sup> t <sub>sd</sub>	-	-	-	-		-		-				-
Characteristic in S range: selectable $l^2t_{\rm sd}/t_{\rm sd}$	-	-	-	-	-	-	•	-	•	•	•	-
$I_{i}$												
I <sub>N</sub> 1)	-					-		-				-
$I_{q}$	-	-		-	-	-	-	-		-		
$t_{\rm g}$ at 2 × $I_{\rm g}$	-	-		-	-	-	-	-		-		
Characteristic in G range: I <sup>2</sup> t <sub>g</sub>	-	-	-	-	-	-	-	-		-		
Characteristic in G range: selectable $l^2t_g   t_g$	-	-	-	-	-	-	-	-	•	-	•	•
Ground-fault alarm function	-	-	-	-	-	-	-	-		-	-	
Blocking protection	-	-	-	-	-	-	-	-	-	-	-	
ZSI in combination with an EFB external function box	-	•	•	•	•	•	•	•	•	•	•	•

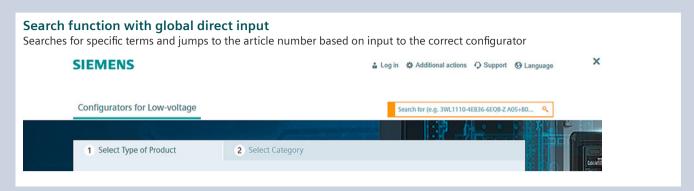
<sup>1)</sup> Available in a version with external current transformer for N conductor or 4-pole breaker

#### Available for:

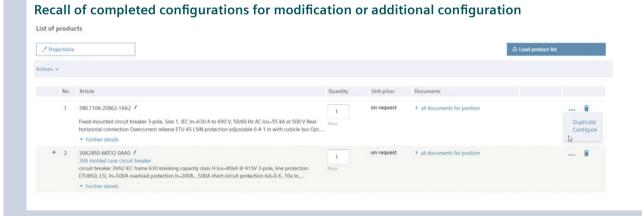
- Circuit breakers with ETU (4-pole)
- Circuit breakers with ETU5/ETU8 3-pole with external neutral conductor transformer or 4-pole

### Online configurator highlights

### www.siemens.com/lowvoltage/configurators

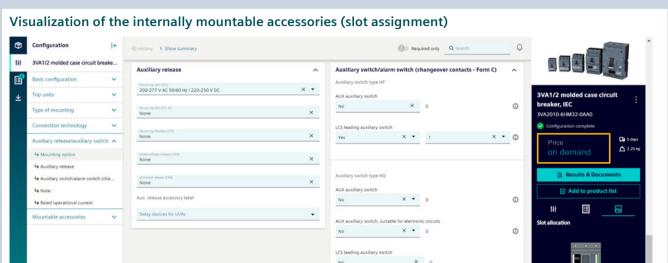


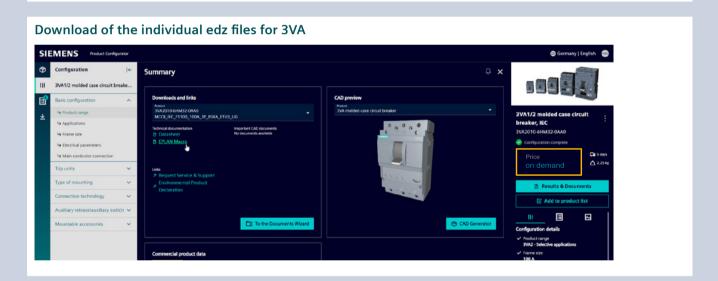
### 





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





### 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

### Trip unit accessories









Thermal-magnetic trip unit (TMTU)

Electronic trip unit (ETU)

optionally with metering function

24 V module

Communica-Data tions module concentrator

External display

Test device

### Type of mounting







ಡೆಡೆಡೆ

### Supplementary accessories



Auxiliary





Cylinder lock

adapter



Crank

Fixed-mounted

ಠಠಠ Withdrawable unit, complete kit

Plug-in unit, complete kit

feedthrough signaling circuit connector switch

Connection accessories

Door

### Main conductor connection



connectors



connectors

broadened





conductor

terminals





Nut keeper kits,

right-angled



Insulation accessories

#### Note:

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

terminals

### Auxiliary releases/auxiliary switches



### Mountable accessories



### Additional circuit breaker accessories



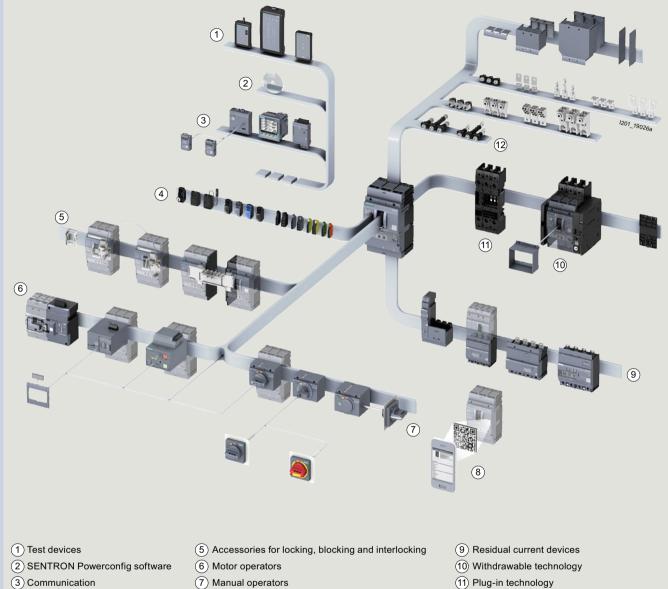
### Mechanical interlocking mechanisms



#### Note:

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

### System overview



- (4) Internal accessories
- (8) Knowledge Manager

(12) Connection technology

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### Structure of the article numbers EcoTech



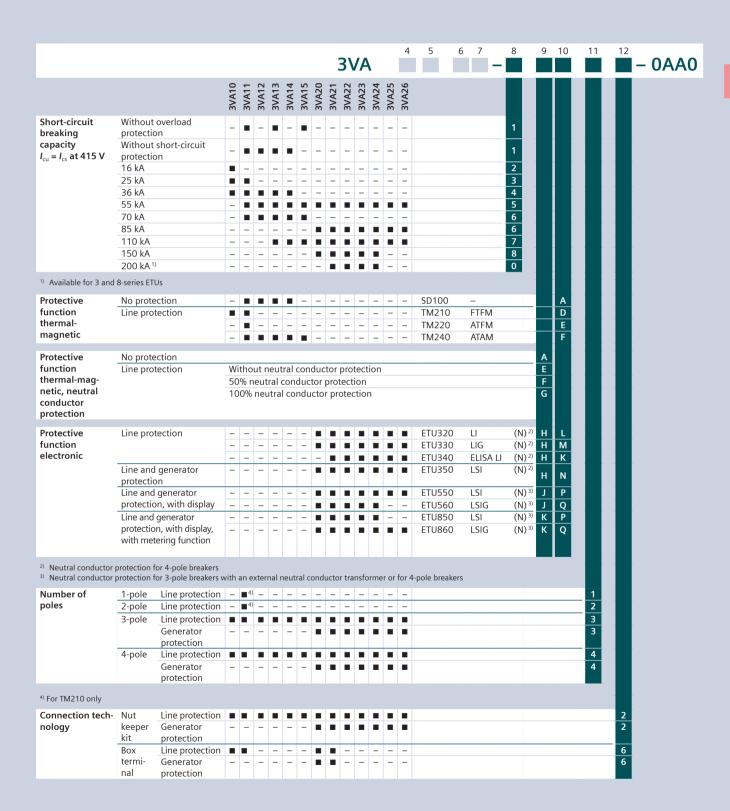
### Basic configuration for line and generator protection

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

3									_														
												3	V	4	4	5	6	7	8	9 10	11	12	0
															Ξ			Н					
Trip units	Thermal-magne	etic													1								
	Electronic														1 2								
			0	_	2	m	4	2	0	7	22	33	4	22	97								
			3VA10	3VA11	3VA12	3VA13	3VA14	3VA15	3VA20	3VA21	3VA22	3VA23	3VA24	3VA25	3VA26								
			m	m	m	m	m	m	m	m	m	m	m	m	m			!					
Size (SZ)	100 A			-	-	-	-	-		-	-	-	-	-	-	0							
	160 A		-		-	-	-	_	-		-	-	-	-	-	1 2 3 4 5 6							
	250 A		-	-		-	-	-	-	-		-	-	-	_	2		!					
	400 A		-	-	-		-	-	-	-	-	•	-	-	-	3		!					
	630 A		-	-	-	-	•	-	-	-	-	-	-	-	-	4							
	1000 A		-	-	-	-	-	•	-	-	-	-	-	-	-	5							
	1250 A		-	-	-	-	-	-	-	-	-	-	-	-		6		!					
Max. rated	Line	16 A			-	_	_	_	-	-	_	-	-	_	-		9	6					
current I <sub>n max</sub>	protection	20 A			-	-	-	-	-	-	-	-	-	-	_		2	0					
max		25 A			-	-	-	-		•	-	-	-	-	_		2	5					
		32 A			-	-	-	-	-	-	-	-	-	-	-		3	6 0 5 2 0					
		40 A			-	-	-	-			-	-	-	-	-		4	0					
		50 A			-	-	-	-	-	-	-	-	-	-	-		5						
		63 A			-	-	-	-			-	-	-	-	-			0 3 0 0 2					
		80 A			-	-	-	-	-	-	-	-	-	-	-		6 8	0					
		100 A			-	-	-	-			-	-	-	-	-		1	0					
		125 A	-		-	-	-	-	-	-	-	-	-	-	-		1	2					
		160 A	_				-	-	_	<b>■</b> 10		-	-	-	_		1	6 0					
		200 A	_	-		_	-	-	-	_	-	-	-	-	-		2	0					
		250 A	-	-		-	-	-	-	-	<b>■</b> 1)	<b>=</b>	-	-	-		2	5					
		320 A	-	-	-		-	-	-	-	-	-	-	-	-		3	5 2 0					
		400 A	-	-	-		-	-	-	-	-	<b>■</b> 1)	<b>2</b> )	-	-		4	0					
		500 A	-	-	-	-	•	-	-	-	-	-	<b>=</b> 2)	-	_		5	0					
		630 A	-	-	-	-	•		-	-	-	-			-		6	3					
		800 A	-	-	-	-	-		-	-	-	-	-		-		8	0					
		1000 A	-	-	-	-	-	•	-	-	-	-	-	•	-		1	0					
		1250 A	_	-	_	-	_	-	-	-	-	-	_	-	-		1	2					
	Generator	25 A	-	-	-	-	-	-		-	-	-	-	-	-		2	5					
	protection	40 A	-		-	-	-	-			-	-	-	-	-		4	0					
		63 A	-	-	-	-	-	-	-	-	-	-	-	-	-		6	3					
		100 A	-		-	-	-	-	-		_	-	-	-	-		1	0					
		160 A	-	-	-	-	-	-	-	-	-	_	-	-	-		1	5 0 3 0 6 5					
		250 A	-		-	-		-	-	-	-	-	<b>-</b> 2)	-	-		2	2					
		400 A	-		-	-	-	-	-	-	-	-	- 2)		-		4 5	0					
		500 A 630 A	-	-	-	-	-	-	-	-		-	<b>=</b> 2)		_		6	0					
		800 A	-	-	-	-	-	-	-	-	-	-	-		_		8	13					
			-	-	-	-	-	_	Ε	-	-	-	-	-	_		1	1					
		1000 A 1250 A	-	-	_	-	-	-	Е	-	-	-	-	-	-		1	0 3 0 0 2					
	Switch	63 A		_	-	_	_	-	-			Ε.	-	H	-		6	3					
	disconnector	100 A	-		-	-	-	-	-	_	_	-	-	-	_		1	0					
			F		-	-	-	-	-	-	-	-	-					2					
		125 A	F		-	Ē	-	-	F	-	-	-	F	-	-		1						
		160 A	-	-	_	-	-	-	-	Ε.	-	-	-	-	-		2	6 5					
		250 A	-	-	-	_	-	-	-	-	-	-	-	-	-			0					
		400 A	-	-	-	•	_	-	-	-	-	-	-	-	-		4	•					
		500 A	-	-	-	-		-	-	-	-	-	-	-	-		5	0					
		630 A	-	_	_	-		_	-	_	-	-	-	-	-		6	3					

<sup>1)</sup> Rated current not available with ETU340 ELISA LI

 $<sup>^{\</sup>rm 2)}$  With ETU 5-series and 8-series, utilization category B and ETU340 ELISA LI only

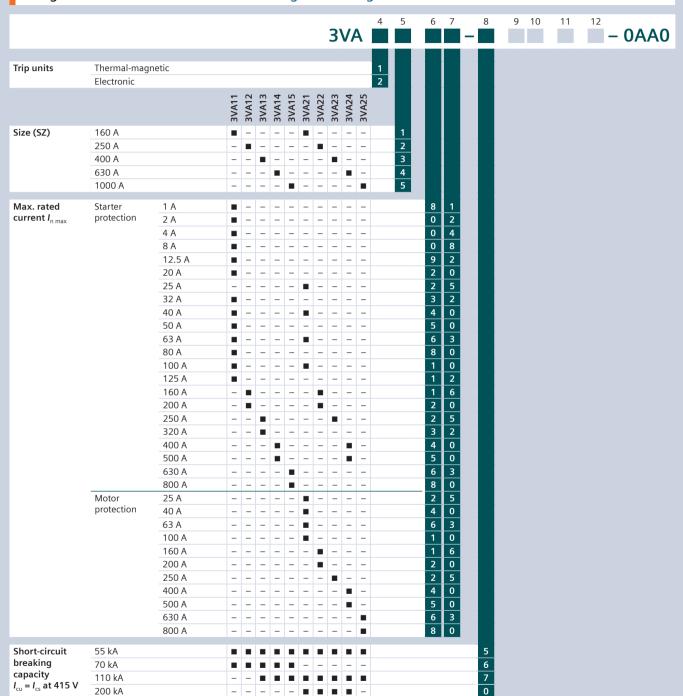


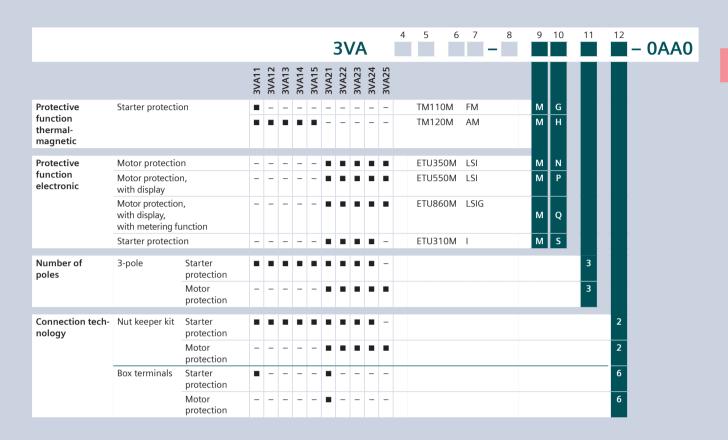
### Structure of the article numbers Siemens EcoTech



### 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

						3VA10	3VA11	3VA12 3VA13 3VA14	3VA15	3VA20 3VA21 3VA22 3VA23 3VA24 3VA25 3VA26
Auxiliar			Laborate in the Cale		6 dla a a l al a al					
	cas • The	se circuit bi e contacts	If the position of the reaker of the auxiliary sw er close in unison							
m.	Туре	Width	l <sub>e</sub> max (IEC 60947-5-1)	U <sub>e</sub> AC/DC (IEC 60947-5-1)	Version					
	HQ	7 mm	6 A	240 V/250 V	Standard			3VA9988-0AA12		
		(1 slot)	< 1 A	24 V/24 V	Electronic- compatible			3VA9988-0AA13		
wei/	HP	14 mm (2 slots)	10 A	600 V/250 V	Standard	-		3VA9988	-0AA11	
Leading		over swite								
	• Sig	nal the op	shedding, for examening of the main e of molded case of	contacts with a lea						
	Туре	Width	l <sub>e</sub> max	U <sub>e</sub> AC/DC (IEC 60947-5-1)	Version					
	HQ	7 mm	6 A	240 V/250 V	Standard	-		3VA9988	-0AA22	
		(1 slot)	< 1 A	24 V/24 V	Electronic- compatible	-		3VA9988	-0AA23	
	HP	14 mm (2 slots)	10 A	600 V/250 V	Standard	-		3VA9988	-0AA21	
Trip alar	m switc	hes TAS								
	• Are	actuated	circuit breaker tripp whenever the mol ne TRIP position		eaker					
	Туре		I <sub>e</sub> max	U <sub>e</sub> AC/DC (IEC 60947-5-1)	Version					
	HQ	7 mm	6 A	240 V/250 V	Standard			3VA9988-0AB12		
		(1 slot)	< 1 A	24 V/24 V	Electronic- compatible			3VA9988-0AB13		
	HP	14 mm (2 slots)	10 A	600 V/250 V	Standard	-		3VA9988	-OAB11	
Short cir		rm switch								
	sho • The led	ort circuit e tripping o Igement of	g operations only in operation must be if the fault before the and to ON again	reset by deliberate	e acknow-					
	Туре	Width	l <sub>e</sub> max (IEC 60947-5-1)	U <sub>e</sub> AC/DC (IEC 60947-5-1)	Version					
2 4	HQ	7 mm	6 A	240 V/250 V	Standard	-	3VA9988-0AB32	3VA9988-0AB34	-	-
		(1 slot)	< 1 A	24 V/24 V	Electronic- compatible	-	3VA9988-0AB33	3VA9988-0AB35	-	-
Electrica		switches l		n contacts of the	molded					
	circ		as soon as the mai r open in the even							
	Туре	Width	l <sub>e</sub> max (IEC 60947-5-1)	U <sub>e</sub> AC/DC (IEC 60947-5-1)	Version					
3	HQ	7 mm	6 A	240 V/250 V	Standard	-	-	-	-	3VA9988-0AB22
		(1 slot)	< 1 A	24 V/24 V	Electronic- compatible	-	-	-	-	3VA9988-0AB23

### Auxiliary releases

				3VA10		
				3VA11	3VA20	
				3VA12	3VA21	
				3VA13	3VA22	
				3VA14	3VA23	3VA25
				3VA15	3VA24	3VA26
Shunt trips left S	TL					
			the molded case circuit breaker			
		rly low power consumpti able for electrical interloc				
A STATE OF THE STA	Version	U <sub>a</sub> 50/60 Hz AC	U <sub>e</sub> DC			
	Standard	-	12 V		3VA9988-0BL10	
or many	Staridard	24 V	24 30 V		3VA9988-0BL30	
at L		48 60 V	48 60 V		3VA9988-0BL31	
		110 127 V	110 127 V		3VA9988-0BL32	
		208 277 V	220 250 V		3VA9988-0BL33	
		380 600 V	_		3VA9988-0BL20	
	Electrical (EI)	_	24 V		3VA9988-0BM10	
Shunt trips flexib						
		te-controlled tripping of	the molded case circuit breaker			
	Flexible install	ation				
COST.	U <sub>e</sub> 50/60 Hz AC	U <sub>e</sub> DC				
14.54	24 V	-		-	3VA9988-0BA20	-
Manage .	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						
A CONTRACTOR OF THE PARTY OF TH		of shunt trip and underv	oltage release			
	U <sub>e</sub> 50/60 Hz AC	U <sub>e</sub> DC				
	_	12 V			3VA9908-0BD11	
		24 V			3VA9908-0BD12	
Lindam roltana na	anna LIV/D	48 V			3VA9908-0BD13	
Undervoltage rel			learness that the material			
	operational vo	ed case circuit breaker in t oltage of a monitored circ nit or fails altogether	uit drops below a minimum			
-	U <sub>a</sub> 50/60 Hz AC	U <sub>a</sub> DC		_	_	
		12 V			3VA9908-0BB10	
		24 V			3VA9908-0BB11	
		48 V			3VA9908-0BB12	
		60 V			3VA9908-0BB13	
		125 127 V			3VA9908-0BB14	
		220 230 V			3VA9908-0BB15	
		250 V			3VA9908-0BB16	
	24 V	_			3VA9908-0BB20	
	48 V	_			3VA9908-0BB21	
	60 V	_			3VA9908-0BB22	
	110 V	_			3VA9908-0BB23	
	120 127 V	_			3VA9908-0BB24	
	208 230 V	-			3VA9908-0BB25	
	380 400 V	-			3VA9908-0BB26	
	440 480 V	-			3VA9908-0BB27	
Time-delay devic	es for undervoltage	releases				
The same	U <sub>e</sub> 50/60 Hz AC	U <sub>e</sub> DC				
00000	110 V	110 V			3VA9988-0BF21	
	230 V	230 V			3VA9988-0BF22	
••••	-	24 V			3VA9988-0BF23	

 $<sup>^{\</sup>scriptsize 1)}\,$  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							
	<ul><li> Handle</li><li> For IEC</li><li> Degree of prote</li><li> For 3-pole and 4</li></ul>							
	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	-
- 0.2			With	3VA9157-0EK27	3VA9257-0EK27	3VA9267-0EK27	3VA9467-0EK27	-
Door mounted	d rotary operators	with tolerance o	ompensation					
	<ul><li>With mounting</li><li>Handle with ma</li></ul>	sking plate 75 × for 3VA15/3VA2 ction IP65	nsation 75 mm					
	Version	Illumination kit	Door interlock					
(Garan	Standard (gray)	Without	With	3VA9157-0FK21	3VA9257-0FK21	3VA9267-0FK21	3VA9467-0FK21	3VA9687-0FK21
		With	With	3VA9157-0FK23	3VA9257-0FK23	3VA9267-0FK23	3VA9467-0FK23	3VA9687-0FK23
//-	EMERGENCY-OFF	Without	With	3VA9157-0FK25	3VA9257-0FK25	3VA9267-0FK25	3VA9467-0FK25	3VA9687-0FK25
	(red/yellow)	With	With	3VA9157-0FK27	3VA9257-0FK27	3VA9267-0FK27	3VA9467-0FK27	3VA9687-0FK27
Door mountee	d rotary operators	without toleran	ce compensatio	on				
	Handle with ma	for 3VA15/3VA2 ction IP65	75 mm					
	Version	Illumination kit	Door interlock					
	Standard (gray)	Without	With	3VA9157-0FK61	3VA9257-0FK61	3VA9267-0FK61	3VA9467-0FK61	3VA9687-0FK61
Door mounted	<ul><li>For IEC</li><li>Degree of prote</li><li>For 3-pole and 4</li></ul>	ction IP30						
	Version	Illumination kit	Door interlock					
	With shaft stub (gray)	-	Without	3VA9157-0GK00	3VA9257-0GK00	3VA9267-0GK00	3VA9467-0GK00	3VA9687-0GK00

							3VA13	
						3VA20	3VA14	3VA15
				3VA10		3VA21	3VA23	3VA25
				3VA11	3VA12	3VA22	3VA24	3VA26
Side wall mou	inted rotary operat	tors						
4 8	<ul> <li>Rotary operator</li> <li>Handle with ma</li> <li>Degree of prote</li> <li>For 3-pole and 4</li> </ul>	sking plate 75 × ction IP65						
	Version	Mounting bracket	Illumination kit					
	Standard	Without	Without	3VA9157-0PK11	3VA9257-0PK11	3VA9267-0PK11	3VA9467-0PK11	-
	(gray)		With	3VA9157-0PK13	3VA9257-0PK13	3VA9267-0PK13	3VA9467-0PK13	-
	EMERGENCY-OFF	Without	Without	3VA9157-0PK15	3VA9257-0PK15	3VA9267-0PK15	3VA9467-0PK15	-
	(red/yellow)		With	3VA9157-0PK17	3VA9257-0PK17	3VA9267-0PK17	3VA9467-0PK17	-
Side wall mou	ınted rotary operat	tors with mount	ting bracket					
13	<ul> <li>Rotary operator bracket for mou</li> <li>Handle with ma</li> <li>Degree of prote</li> <li>For 3-pole and</li> </ul>	nting 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	-	-
xtended 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							
6.	2 × leading to "ON	"		3VA9257-0GX10	3VA9257-0GX10	3VA9467-0GX10	3VA9467-0GX10	-
30.00	2 × leading to "ON 1 × leading to "OFI			-	-	3VA9467-0GX20	3VA9467-0GX20	-
Mounting ada	pters for side wall	mounted rotar	y operators					
2	Version							
	Necessary accesso rotary operators, it modules are used			3VA9257-0GX01	3VA9257-0GX01	3VA9467-0GX01	-	-

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### Manual operators

						3VA13	
					3VA20	3VA14	3VA15
			3VA10		3VA21	3VA23	3VA25
			3VA11	3VA12	3VA22	3VA24	3VA26
Supplementa	rv handles for door	r mounted rotary operators					
	<u> </u>	hen control cabinet door is open					
	Version						
	Standard (gray)		3VA9287-0GC01	3VA9287-0GC01	3VA9487-0GC01	3VA9487-0GC11	3VA9687-0GC01
	EMERGENCY-OFF (red/yellow)		3VA9287-0GC05	3VA9287-0GC05	3VA9487-0GC05	3VA9487-0GC15	3VA9687-0GC05
Handles							
	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						
		lle lever extension is already scope of supply of the breakers.					
			_			3VA9487-0SC10	21/40007 05/10
Chafta			-	-	-	3VA9487-05C10	3VA9987-0SC10
Shafts	Tuno	Length					
	Type 8 × 8 mm	300 mm	_	9110100	0-2WA00		
	0 × 0						_
	42.42	600 mm		800190	0-2WB00		-
4	12 × 12 mm	300 mm	-	-	-	-	8UD1900-4WA00
	1. 0	600 mm	-	-	-	-	8UD1900-4WB00
Adapters for s							
	Туре	Use		0110400	0.20400		
	8 × 8 mm	With door mounted rotary operator and side wall mounted rotary operator		800190	0-2DA00		-
	12 × 12 mm	For door mounted rotary operator	-	-	-	-	8UD1900-4DA00
Door coupling	gs						
	Туре						
	8 × 8 mm			8UD190	0-2HA00		-
	12 × 12 mm		-	-	-	-	8UD1900-4HA00

					3VA13	
				3VA20	3VA14	3VA15
		3VA10		3VA21	3VA23	3VA25
		3VA11	3VA12	3VA22	3VA24	3VA26
Mounting tole	erance compensations					
	Туре					
T.	8 × 8 mm		8UD190	0-2GA00		-
	12 × 12 mm	-	-	-	-	8UD1900-4GA00
Fixing bracket	s for shafts					
44						
		3VA9287	7-0GA80	3VA948	7-0GA80	3VA9687-0GA80
Variable dept	n adapters					
	Size					
	8 × 8 mm		3VA948	7-0GB10		-

## Manual operators

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

						3VA20	
						3VA20 3VA21	
			3VA10			3VA21	
			3VA11	3VA13		3VA22	3VA25
			3VA12	3VA13	3VA15	3VA23	3VA25 3VA26
Laboling plate	es for manual operators		SVATZ	JVAIT	SVAIS	3 VA24	SVAZO
Labeling plate	es for manual operators						
					3VA9087-0SX10		
	the famous and a manufacture						
illumination k	cits for manual operators						
	24 V DC voltage  Version	Rated current					_
(•		100 250 A	8UD1900-0KA10				
$\prec$	Front mounted rotary operator	100 230 A	- 80D1900-0KA10	8UD1900-0KA20	_	8UD1900-0KA20	_
		630 1000 A	_	80D1900-0KA20	8UD1900-0KA30	-	8UD1900-0KA30
	Door mounted rotary operator	100 630 A	8LID1900-0KA20	8LID1900-0KA20	8UD1900-0KA20		-
	and side wall mounted rotary	630 1000 A	-	-	-	-	8UD1900-0KA30
	operator						0021300 010130
Cylinder locks	(type Kaba), standard masking	plates					
	Use	Key					
	For door mounted rotary	1	8UD1900-0MB01	8UD1900-0MB01	-	8UD1900-0MB01	-
	operator and side wall mounted rotary operator	2	8UD1900-0NB01	8UD1900-0NB01	-	8UD1900-0NB01	-
	(in the masking plate), only for	3	8UD1900-0PB01	8UD1900-0PB01	-	8UD1900-0PB01	-
	locking, not for interlocking	4	8UD1900-0QB01	8UD1900-0QB01	-	8UD1900-0QB01	-
Cylinder locks	(type Kaba), EMERGENCY-OFF	masking plates					
	Use	Key					
	For door mounted rotary	1	8UD1900-0MB05	8UD1900-0MB05	-	8UD1900-0MB05	-
	operator and side wall mounted rotary operator	2	8UD1900-0NB05	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	• • • • • • • • • • • • • • • • • • • •						
	<ul><li>Includes a lock with 2 keys</li><li>For locking or interlocking</li><li>For installation on the circuit</li></ul>	breaker side in all					
01	rotary operators • For mounting in the adapter I						
	<ul><li>accessories compartment</li><li>Note: The cylinder lock adapt</li></ul>	er for rotary					
	operators is also needed for lo						
	interlocking circuit breakers v	ia rotary operators					
	Key						
	1				3VA9980-0VL10		
	3				3VA9980-0VL30		
	4				3VA9980-0VL40		
Cylinder lock	adapters for rotary operators						
	<ul> <li>To mount the cylinder lock in operator (also possible with d rotary operator and side wall</li> </ul>	oor mounted					
	operator), on circuit breaker s masking plate						
	Rated current						
	100 630 A		3VA9980-0LF20	3VA9980-0LF20	-	3VA9980-0LF20	-
	1000 A		-	-	3VA9680-0LF20	-	3VA9680-0LF20

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### Motor operators

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

#### Side mounted motor operators without stored energy mechanisms (MO310)



Cover Size 45 i	IIIII					
Addressable via control signals	Isolating features in accordance with IEC/EN 60947-1	Make time, t For 3VA1	ypically For 3VA2	Break time, t For 3VA1	typically For 3VA2	Rated operational power
•	•	< 300 ms	-	< 300 ms	-	250 W, max. 500 W (60 ms)

#### Motor operators without stored energy mechanisms (MO320)



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

#### Spare parts kit for MO320

Scope of supply

Mounting plate, plug

#### Motor operators with stored energy mechanisms (SEO520)

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



Note: On account	Note: On account of the last switching times, the seesele and be ased with a leading change over switch ees.								
Addressable via control signals	Isolating features in accordance with IEC/EN 60947-1	Make time, typically For 3VA1 For 3VA2		Break time, typ For 3VA1	Rated operational power				
•	•	< 80 ms (400 A, 630 A)	< 80 ms (100 A 630 A)	< 5 s (400 A, 630 A)	< 80 ms (100 A 250 A) < 5 s (400 A, 630 A)	300 W, max. 500 W (60 ms)			

#### Spare parts kit for SEO520

Scope of supply

Mounting plate, plug

Spare parts kit for SEO520 with communication

Scope of supply

Mounting plate, plug, SLC adapter

### Mechanical operating cycles counters (for installation in the SEO520) Mounting



Mounting
For installation in the SEO520

Article No. 3VA9987-0HX10

#### Cylinder lock adapters for SEO520



Mounting
For installation of cylinder locks in the SEO520 up to 250 A

Article No. 3VA9980-0LF30

#### Cylinder locks (type RONIS



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

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

					3VA20	l	
					3VA21	3VA13	3VA23
		21/440	21/044	21/442			
		3VA10	3VA11	3VA12	3VA22	3VA14	3VA24
			_	_			
Rated control supply voltage	With communication						
42 60 V AC, 24 60 V DC	-	-	3VA9117-0HB10	-	-	-	-
110 230 V AC, 110 250 V DC	-	-	3VA9117-0HB20	-	-	-	-
Rated control supply voltage	With communication						
24 60 V DC	-	-	3VA9157-0HA10	3VA9257-0HA10	3VA9267-0HA10	3VA9467-0HA10	3VA9467-0HA10
110 V AC	_	-	-	-		3VA9467-0HA21 1)	3VA9467-0HA21 1)
110 230 V AC, 110 250 V DC	-	-	3VA9157-0HA20	3VA9257-0HA20	3VA9267-0HA20	3VA9467-0HA20	3VA9467-0HA20
230 V AC	-	-	-	-	3VA9267-0HA22 1)	3VA9467-0HA22 1)	3VA9467-0HA22 1)
			21/40157 011400	3VA9257-0HA00	3VA9267-0HA00	3VA9467-0HA00	20/40/467 011400
		-	3VA9157-0HA00	3VA9257-UHAUU	3VA9267-UHAUU	3VA9467-UHAUU	3VA9467-0HA00
Rated control supply voltage	With communication						
24 V DC	-	-	-	-	3VA9267-0HC10	3VA94	67-0HC10 <sup>2)</sup>
42 60 V AC/DC	-	-	-	-	3VA9267-0HC20		67-0HC20 <sup>2)</sup>
110 230 V AC, 110 250 V DC	-	-	-	-	3VA9267-0HC30	3VA94	57-0HC30 <sup>2)</sup>
24 V DC	Yes	-	-	-	3VA9267-0HC15	-	3VA9467-0HC15
110 230 V AC, 110 250 V DC	Yes	-	-	-	3VA9267-0HC35	-	3VA9467-0HC35
		-	-	-	3VA9267-0HC00	-	-
					3VA9267-0HC05		
					3477207-011003		

Optimized for long control cable lengths, see FAQ at <a href="https://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a> (109804710)

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



#### Reset mode

All motor operators have the following reset modes:

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

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



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

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Box terminals							
	Conn	ection options	Scope of supply	Cable cross-section, copper stranded			Terminal short designation
無無無	1	2	3 single terminals	1.5 70 mm <sup>2</sup>			TS1.1
a la la				6 120 mm²			TS1.2
				25 185 mm²			TS1.4
				50 185 mm²			TS1.3
				35 300 mm²			TS1.5
<b>###</b>	1	2	4 single terminals	1.5 70 mm <sup>2</sup>			TS1.1
0 0 0 0				6 120 mm²			TS1.2
				25 185 mm²			TS1.4
				50 185 mm²	50 185 mm²		
				35 300 mm <sup>2</sup>			TS1.5
Nut keeper kits							
	Conn	ection options	Scope of supply	Max. tap width	Max. tap thic	:kness	
	1	2	3 terminals	17 mm	6.5 mm		
or 94 94				25 mm	8 mm		
				35 mm	10 mm		
			Nut keeper kit for 3-pole breakers, 1 terminal cover	50 mm	25 mm		
	1	2	4 terminals	17 mm	6.5 mm		
0.0.0.01				25 mm	8 mm		
				35 mm	10 mm		
			Nut keeper kit for 4-pole breakers, 1 terminal cover	50 mm	28 mm		
Circular conductor	terminals	, 1 cable					
	Conn	ection options	Scope of supply	Cable cross-section	Copper/alum Cu	inum stranded <sup>1)</sup> Al <sup>2)</sup>	Terminal short designation
- 10 min	1	2	3 single terminals	1.5 10 mm²		-	TA1.0
ର ଗ୍ର				1.5 50 mm <sup>2</sup>		-	TA1.3
				10 95 mm²			TA1.1
				16 185 mm²		<b>3</b> )	TA1.4
				35 185 mm²			TA1.2
				50 300 mm²			TA1.5
	1	2	4 single terminals	1.5 10 mm²	-	_	TA1.0
ର ଶ ଶ ଶ				1.5 50 mm <sup>2</sup>		_	TA1.3
				10 95 mm²			TA1.1
				16 185 mm²		<b>3</b> )	TA1.4
				35 185 mm²			TA1.2
				50 300 mm <sup>2</sup>			TA1.5

 $<sup>^{11}\,</sup>$  All circular conductor terminals tested according to UL 486 A/B for Cu and Al cables  $^{21}\,$  Al cable tested according to IEC 60947-2 annex D

<sup>3)</sup> Use antioxidants

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

<sup>5)</sup> Maximum current-carrying capacity of copper cables 380 A Maximum current-carrying capacity of aluminum cables 310 A

3VA10		3VA20		3VA13 3VA14 3VA23	3VA15
3VA11	3VA12	3VA21	3VA22	3VA24	3VA25
3VA9153-0JA11	-	-	-	-	-
<del>-</del>	3VA9253-0JA11	3VA9163-0JA12	3VA9163-0JA12	-	-
-	-	3VA9263-0JA12	3VA9263-0JA12	-	-
-	3VA9253-0JA12	-	-	-	-
-	-	-	-	3VA9483-0JA13 4)	-
3VA9154-0JA11	-	-	-	-	-
-	3VA9254-0JA11	3VA9164-0JA12	3VA9164-0JA12	-	-
-	-	3VA9264-0JA12	3VA9264-0JA12	-	-
-	3VA9254-0JA12	-	-	-	-
-	-	-	-	3VA9484-0JA13 4)	-
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 <sup>5)</sup>	-
3VA9114-0JB10	-	-	-	-	-
-	-	3VA9104-0JB11	3VA9104-0JB11	-	-
3VA9114-0JB11	-	-	-	-	-
-	-	3VA9264-0JB12	3VA9264-0JB12	-	-
-	3VA9254-0JB12	-	-	-	-
	_			3VA9384-0JB13 <sup>5)</sup>	



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

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Circular conductor t	erminal	s with control w	vire taps, 1 cable 3)					
	Conn	ection options	Scope of supply	Cable cross-section	Copper/alumin Cu	um stranded <sup>1)</sup> Al <sup>2)</sup>		Terminal short designation
	1	2	3 single terminals	1.5 10 mm²		-		TA1.0
อ ล ล				1.5 50 mm <sup>2</sup>		-		TA1.3
				10 95 mm²				TA1.1
				16 185 mm²		<b>3</b> )		TA1.4
				50 185 mm²	•	•		TA1.2
				50 300 mm²		•		TA1.5
755	1	2	4 single terminals	1.5 10 mm²		-		TA1.0
ज ता ता ता				1.5 50 mm <sup>2</sup>	•	-		TA1.3
				10 95 mm²	•	•		TA1.1
				16 185 mm²	•	<b>3</b> )		TA1.4
				50 185 mm²				TA1.2
				50 300 mm²				TA1.5
Circular conductor t	erminal:	s, 2 cables						
	Conn	ection options	Scope of supply	Cable cross-section	Copper/alumin Cu	um stranded <sup>1)</sup> Al <sup>2)</sup>	Control wire tap 4)	Terminal short designation
	1	2	3 single terminals,	120 300 mm²			No	TA3.1
and wise and			1 short terminal cover				Yes	TA3.1
			cover					
	1	2	4 single terminals,	120 300 mm²			No	TA3.1
aaaa			1 short terminal cover				Yes	TA3.1
			covei					
Circular conductor t	erminal	s, 3 cables						
	Conn	ection options	Scope of supply	Cable cross-section	Copper/alumin Cu	um stranded <sup>1)</sup> Al <sup>2)</sup>	Control wire tap 4)	Terminal short designation
	1	2	3 single terminals,	120 185 mm²	•	•	No	TA3.2
			1 short terminal				Yes	TA3.2
कीकिक			cover					
	1	2	4 single terminals,	120 185 mm²		•	No	TA3.2
91 ma			1 short terminal				Yes	TA3.2
<sup>តាតាតា</sup> តា			cover					
The state of the s								
Control wire taps fo	r box te	rminals <sup>3)</sup>						
	Conn	ection options						
	1							
<b>ST</b>	2							
Control wire taps fo	r busb <u>a</u> ı	's <sup>3)</sup>						
	_	ection options						



- 1) All circular conductor terminals tested according to UL 486 A/B for Cu and Al 4) Maximum current-carrying capacity 15 A
- 2) Al cable tested according to IEC 60947-2 annex D
- 3) Use antioxidants

- Maximum cable connection up to 2.5 mm<sup>2</sup>
- 5) 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
	3VA9113-0JG10	-	-	-	-	-
	-	-	3VA9103-0JG11	3VA9103-0JG11	-	-
	3VA9113-0JG11	-	-	-	-	-
	-	-	3VA9263-0JG12	3VA9263-0JG12	-	-
	-	3VA9253-0JG12	-	-	-	-
	-	-	-	-	3VA9383-0JG13 <sup>5)</sup>	-
	3VA9114-0JG10	-	-	-	-	-
	-	-	3VA9104-0JG11	3VA9104-0JG11	-	-
	3VA9114-0JG11	-	-	-	-	-
	-	-	3VA9264-0JG12	3VA9264-0JG12	-	-
	-	3VA9254-0JG12	-	-	-	-
	-	-	-	-	3VA9384-0JG13 5)	-
	-	-	-	-	-	3VA9503-0JB23
	-	-	-	-	-	3VA9503-0JG23
	-	-	-	-	-	3VA9504-0JB23
	_	_	_	_	_	3VA9504-0JG23
_	-	_	-	_	_	3VA9503-0JB32
	_	_	_	_	_	3VA9503-0JG32
						3477303 03032
						3VA9504-0JB32
	-		-			3VA9504-0JB32 3VA9504-0JG32
	_	_	_	_	_	3VA93U4-UJU32
	2)/40440 20022	2)// 0206 211/202	2)/40206 211/222	2) (4.0.2.0.2	21/40/400 211/200	
	3VA9110-0WB00	3VA9200-0WB00	3VA9200-0WB00	3VA9200-0WB00	3VA9480-0WB00	-
	3VA9150-0WB00	3VA9280-0WB00	3VA9280-0WB00	3VA9280-0WB00	3VA9480-0WB00	-
	3VA9110-0WC00	3VA9200-0WC00	3VA9200-0WC00	3VA9200-0WC00	3VA9480-0WC00	-
	3VA9150-0WC00	3VA9280-0WC00	3VA9280-0WC00	3VA9280-0WC00	3VA9480-0WC00	-



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

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#### Note:

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

#### Front bus connectors



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

#### Front bus connectors, with phase barriers

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



Number of poles	Conne	ction options	Scope of supply	Max. tap width	Max. tap thickness	
3P	1	2	3 terminals,	22 mm	8 mm	
			2 phase barriers	32 mm	10 mm	
				40 mm		
				50 mm	30 mm	
			3 short terminals, <sup>1)</sup> 2 phase barriers	50 mm	30 mm	
4P	1	2	4 terminals,	22 mm	8 mm	
			3 phase barriers	32 mm	10 mm	
				40 mm	12.5 mm	
				50 mm	30 mm	
			4 short terminals, <sup>1)</sup> 3 phase barriers	50 mm	30 mm	



#### Bus connectors edgewise, with phase barriers

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

Scope of supply

Max. tap width

6 mm

7 mm

8 mm

6 mm

7 mm

8 mm





#### Front bus connectors broadened, with phase barriers

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





	,				
Number of poles	Connec	ction options	Scope of supply	Max. tap width	Max. tap thickness
3P	1	2	3 terminals,	30 mm	8 mm
			2 phase barriers	35 mm	10 mm
				60 mm	12.5 mm
				80 mm	10 mm
	-	2	3 terminals,	80 mm	15 mm
			2 phase barriers		
4P	1	2	4 terminals,	30 mm	8 mm
			3 phase barriers	35 mm	10 mm
				60 mm	12.5 mm
				80 mm	10 mm

 $<sup>^{\</sup>mbox{\scriptsize 1)}}\,$  Bus connectors short for use with terminal covers

			27/4/2	ı	
		OW/O	3VA13		
		3VA20	3VA14	01/17	l
3VA10		3VA21	3VA23	3VA15	
3VA11	3VA12	3VA22	3VA24	3VA25	3VA26
3VA9151-0QB00					
37731-00800				3VA9603-0QB01	
_	_	_	_	34A9003-0QB01	
3VA9153-0QB00	-	-	-	-	-
-	3VA9253-0QB00	3VA9263-0QB00	-	-	-
-	-	-	3VA9483-0QB00	-	-
-	-	-	-	3VA9603-0QB00	-
_	_	_	_	3VA9603-0QB02	
_				3VA3003-0QB02	
3VA9154-0QB00	-	-	-	-	-
-	3VA9254-0QB00	3VA9264-0QB00	-	-	-
-	-	-	3VA9484-0QB00	-	-
-	-	-	-	3VA9604-0QB00	-
_	_	_	_	3VA9604-0QB02	_
				377,500 1 002502	
3VA9153-0QD00	-	-	_	_	-
-	3VA9253-0QD00	3VA9263-0QD00	_	_	_
_	-	-	3VA9483-0QD00	_	_
			·		
3VA9154-0QD00	-	-	-	-	-
- -	3VA9254-0QD00 _	3VA9264-0QD00 -	- 3VA9484-0QD00	-	-
			3773464-00000		
3VA9153-0QC00	-	-	-	-	-
-	3VA9253-0QC00	3VA9263-0QC00	-	-	-
-	-	-	3VA9483-0QC00	-	-
-	-	-	_	3VA9603-0QC00	-
-	-	-	-	3VA9603-0QC01	3VA9603-0QC01
3VA9154-0QC00	-	-	-	-	-
-	3VA9254-0QC00	3VA9264-0QC00	-	-	-
-	-	<del>-</del>	3VA9484-0QC00 -	- 3VA9604-0QC00	-
			_	3VA3004-0QC00	_

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

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#### Note:

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

Nut keeper kits, rig	ght-angled 1)						
	Number of poles		ction options	Scope of supply	Max. tap width	Max. tap thickness	
44	3P	1	2	3 terminals,	22 mm	8 mm	
				2 phase barriers	32 mm	10 mm	
-					40 mm	12.5 mm	
197971							
4.4.	4P	(1)		4 terminals.	22 mm	8 mm	
444	<del>4</del> r	U	2	3 phase barriers	32 mm	10 mm	
				- p.1855 35111515	40 mm	12.5 mm	
48400					40 mm	12.5 mm	
A B. B.							
Rear connection st	uds flat						
	Number of poles	Conne	ction options	Scope of supply			
	1P	1	2	1 short connection st	ud flat		
				1 long connection stu	d flat		
A.D.	3P	1	2	2 short connection st			
				1 long connection stu			
		_	2	3 short connection str			
A.D.	4P	1	2	2 short connection stu			
				2 long connection stu	u liat		
Rear connectors ve	ertical						
	Number of poles	Conne	ection options	Scope of supply			
200	3P	1	-	3 rear connectors			
00 00 00							
444	4P	1	-	4 rear connectors			
के के के क							
1117							
Rear connectors he	orizontal						
	Number of poles	Conne	ction options	Scope of supply			
A design	3P	1	-	3 rear connectors			
Car Car Car							
AL HOUSE	4P	1	-	4 rear connectors			
10 to 10							
Rear connection st	uds round						
	Number of poles	Conne	ction options	Scope of supply			
	1P	1	2	1 short connection st	ud round		
				1 long connection stu	d round		
200	3P	1	2	1 long connection stu			
				2 short connection st	uas rouna		
eda dada	4P	1		2 long connection stu	ds round.		
1200				2 short connection st			

<sup>1)</sup> Can only be connected to breaker side N, 1, 3, 5

3VA10		3VA20 3VA21	3VA13 3VA14 3VA23		3VA25
3VA11	3VA12	3VA22	3VA24	3VA15	3VA26
3VA9113-0QG00	-	-	-	-	-
_	3VA9213-0QG00	3VA9223-0QG00	-	-	-
-	-	-	3VA9403-0QG00	-	-
3VA9114-0QG00	-	-	-	-	-
-	3VA9214-0QG00	3VA9224-0QG00	-	-	-
-	-	-	3VA9404-0QG00	-	-
3VA9111-0QE10	3VA9211-0QE10	3VA9201-0QE10	3VA9401-0QE10		
3VA9111-0QE10	3VA9211-0QE10	3VA9201-0QE10 3VA9201-0QE20	3VA9401-0QE10	_	
	3VK3211-0QL20	3VA3201-0QL20	3VN3401-0QL20		
3VA9113-0QE00	3VA9213-0QE00	3VA9203-0QE00	3VA9403-0QE00	-	-
<del>-</del>	-	-	-	3VA9603-0QE01	3VA9603-0QE01
3VA9114-0QE00	3VA9214-0QE00	3VA9204-0QE00	3VA9404-0QE00	-	-
					3//0603 00000
_	_	-	-	_	3VA9603-0QE00
-	-	-	-	-	3VA9604-0QE00
					21/40/02 205/0
_	_	-	-	_	3VA9603-0QE60
-	-	-	-	-	3VA9604-0QE60
3VA9111-0QF10	3VA9211-0QF10	3VA9201-0QF10	3VA9401-0QF10	-	-
3VA9111-0QF20	3VA9211-0QF20	3VA9201-0QF20	3VA9401-0QF20	-	-
3VA9113-0QF00	3VA9213-0QF00	3VA9203-0QF00	3VA9403-0QF00	-	-
3VA9114-0QF00	3VA9214-0QF00	3VA9204-0QF00	3VA9404-0QF00	-	-



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

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#### Circular conductor terminals, 2P Scope of supply 2 single terminals, 25 ... 150 mm<sup>2</sup> TA2.1 1 extended terminal cover, TA2.1 Nο 1 insulation plate 1.5 ... 35 mm<sup>2</sup> TA2.5 No

Circular conductor terminals, 3P

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

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



for	r installing circula	r conductor terminals on the	load side and	or outgoing side.			
Conn	ection options	Scope of supply	Number of cables	Cable cross-section	Cu/Al strande	d <sup>1)</sup> Control wire tap <sup>3)</sup>	Terminal short designation
1	_	3 single terminals,	1	25 150 mm²	<b>4</b> )	Yes	TA2.1
		1 extended terminal cover,				No	TA2.1
		1 insulation plate		50 240 mm <sup>2</sup>		Yes	TA2.2
						No	TA2.2
			2	25 150 mm²	■ 4)	Yes	TA2.3
						No	TA2.3
				70 300 mm²		Yes	TA2.4
						No	TA2.4
			4	120 240 mm²	-	Yes	TA4.3
			120			No	TA4.3
				120 300 mm <sup>2</sup>		Yes	TA4.4
						No	TA4.4
			6	1.5 35 mm²	-	No	TA2.7
_	2	3 single terminals,	1	25 150 mm²	<b>4</b> )	Yes	TA2.1
		1 extended terminal cover,		50 240 mm <sup>2</sup>		Yes	TA2.2
		1 insulation plate	2	25 150 mm <sup>2</sup>	■ ■ 4)	Yes	TA2.3
				70 300 mm <sup>2</sup>		Yes	TA2.4
				150 300 mm <sup>2</sup>		Yes	TA5.1
			3	150 300 mm <sup>2</sup>		Yes	TA5.2
			4	150 300 mm <sup>2</sup>	-	Yes	TA5.3
			6	1.5 35 mm²	-	No	TA2.5
							TA2.6
							TA2.7

<sup>1)</sup> All circular conductor terminals tested according to UL 486 A/B for Cu and Al cables 3) Maximum current-carrying capacity 15 A <sup>2)</sup> Al cable tested according to IEC 60947-2 annex D

Maximum cable connection up to 2.5 mm<sup>2</sup>

<sup>&</sup>lt;sup>4)</sup> Max. 225 A

			3VA13	
		3VA20	3VA14	
3VA10		3VA21	3VA23	3VA15
3VA11	3VA12	3VA22	3VA24	3VA25
	52	5 17 IZZ		577.25
21/40112 01612				
3VA9112-0JC12 3VA9112-0JJ12	_	<del>-</del>	_	_
3VA9112-0JJ12 3VA9112-0JF60				
3VA9112-0JF00	_	_	_	_
3VA9113-0JC12	-	-	-	-
3VA9113-0JJ12	-	=	-	-
-	3VA9213-0JC13	3VA9223-0JC13	-	-
-	3VA9213-0JJ13	3VA9223-0JJ13	-	-
-	3VA9213-0JC22	3VA9223-0JC22	-	-
-	3VA9213-0JJ22	3VA9223-0JJ22	-	-
-	-	-	3VA9403-0JC23	-
-	-	-	3VA9403-0JJ23	-
-	-	-	-	3VA9603-0JC43
-	-	-	-	3VA9603-0JJ43
-	-	-	-	3VA9603-0JC44
-	-	-	-	3VA9603-0JJ44
3VA9113-0JF60	3VA9213-0JF60	3VA9223-0JF60	3VA9303-0JF60	-
3VA9153-0JC12	-	-	-	-
-	3VA9253-0JC13	3VA9263-0JC13	-	-
-	3VA9253-0JC22	3VA9263-0JC22	-	-
-	-	-	3VA9483-0JC23	-
-	-	-	-	3VA9603-0JJ25
-	-	-	-	3VA9603-0JJ35
-	-	-	-	3VA9603-0JJ45
3VA9153-0JF60	-	-	-	-
-	3VA9253-0JF60	3VA9263-0JF60	-	-
_	_	_	3VA9383-0JF60	_



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

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	erminals, 4P							
27	Connection options	Scope of supply		Cable cross-section			Control wire tap 3)	
			cables		Cu	AI 2)		designation
	① -	4 single terminals,	1	25 150 mm²	•	<b>4</b> )	Yes	TA2.1
<u> </u>		1 extended terminal cover,					No	TA2.1
		1 insulation plate		50 240 mm²	-		Yes	TA2.2
17(7							No	TA2.2
			2	25 150 mm²	-	<b>4</b> )	Yes	TA2.3
							No	TA2.3
				70 300 mm²	-		Yes	TA2.4
							No	TA2.4
			4	120 240 mm²	-	-	Yes	TA4.3
							No	TA4.3
				120 300 mm²	-	•	Yes	TA4.4
							No	TA4.4
			6	1.5 35 mm²	-	-	No	TA2.5
								TA2.6
								TA2.7
	- ②	4 single terminals, 1 extended terminal cover,	1	25 150 mm²		<b>4</b> )	Yes	TA2.1
				50 240 mm <sup>2</sup>			Yes	TA2.2
		1 insulation plate	2	25 150 mm²	•	<b>4</b> )	Yes	TA2.3
				70 300 mm²			Yes	TA2.4
			6	1.5 35 mm²	-	-	No	TA2.5
								TA2.6
								TA2.7
inal covers spe	cially for fixed-mounte	d units						
	Version	Number of poles	Mounting lo	ocation				
Atte Atte	Short	1P	1	-				
		2P	1	_				
		3P						
			1	-				
		4P	1					
	Intermediate	3P	1	-				
		4P	①	_				

#### Terminal covers specially for plug-in and withdrawable units (spare part)



- To provide circuit breaker touch protection
- For mounting to the molded case circuit breaker

2P 3P 4P

4P

Included in scope of supply: Cover for the infeed and outgoing terminal

1

1

- 6	-6	1	

Version	Number of poles	Mounti	ng location
Short	3P	1	-
	4P	1	_

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

Extended 5)

Broadened 5)

<sup>2)</sup> Al cable tested according to IEC 60947-2 annex D

- Maximum current-carrying capacity 15 A Maximum cable connection up to 2.5 mm<sup>2</sup>
- <sup>4)</sup> Max. 225 A
- 5) Including insulating plate
- 6) Suitable for circular conductor terminals 4 cables

				2)/642	
			21/420	3VA13	
			3VA20	3VA14	2)//45
		21/1/2	3VA21	3VA23	3VA15
3VA10	3VA11	3VA12	3VA22	3VA24	3VA25
3VA9	1114-0JC12	-	-	-	-
3VA9	9114-0JJ12	-	-	-	-
-	-	3VA9214-0JC13	3VA9224-0JC13	-	-
-	-	3VA9214-0JJ13	3VA9224-0JJ13	-	-
_	-	3VA9214-0JC22	3VA9224-0JC22	-	-
-	-	3VA9214-0JJ22	3VA9224-0JJ22	-	-
_	_	-	-	3VA9404-0JC23	_
_	<del>-</del>	-	_	3VA9404-0JJ23 _	3VA9604-0JC43
	<del>_</del>	_		_	3VA9604-0JJ43
		_	_	_	3VA9604-0JC44
_	_	_	_	_	3VA9604-0JJ44
3VA9	9114-0JF60	-	-	-	-
_	-	3VA9214-0JF60	3VA9224-0JF60	_	_
-	-	-	-	3VA9304-0JF60	-
3VA9	154-0JC12	-	-	-	-
-	-	3VA9254-0JC13	3VA9264-0JC13	-	-
-	-	3VA9254-0JC22	3VA9264-0JC22	-	-
-	-	-	-	3VA9484-0JC23	-
3VA9	9154-0JF60	-	-	-	-
-	-	3VA9254-0JF60	3VA9264-0JF60	-	-
-	-	-	-	3VA9384-0JF60	-
-	3VA9111-0WD10	-	-	-	-
-	3VA9111-0WD20	-	-	-	-
3VA9111-0WD30	3VA9111-0WD30	3VA9211-0WD30	3VA9221-0WD30	3VA9481-0WD30	3VA9601-0WD30
3VA9111-0WD40	3VA9111-0WD40	3VA9211-0WD40	3VA9221-0WD40	3VA9481-0WD40	3VA9601-0WD40
_			_	_	3VA9601-0WE30 6)
					34/13001 04/230
-	-	-	-	-	3VA9601-0WE40 6)
	3VA9111-0WF20		_	_	_
3VA9111-0WF30	3VA9111-0WF30	3VA9211-0WF30	3VA9221-0WF30	3VA9481-0WF30	3VA9601-0WF30
3VA9111-0WF40	3VA9111-0WF40	3VA9211-0WF40	3VA9221-0WF40	3VA9481-0WF40	3VA9601-0WF40
3VA9111-0WG30	3VA9111-0WG30	3VA9211-0WG30	3VA9221-0WG30	3VA9401-0WG30	-
3VA9111-0WG40	3VA9111-0WG40	3VA9211-0WG40	3VA9221-0WG40	3VA9401-0WG40	_
3W/3111 0W040	50/15111 0WG40	3V//3211 0WG40	3V//3221 0WG40	30/19401 0WG40	
3VA9113-0KB01	3VA9113-0KB01	3VA9213-0KB01	3VA9123-0KB01	3VA9353-0KB01	-
3VA9114-0KB01	3VA9114-0KB01	3VA9214-0KB01	3VA9124-0KB01	3VA9354-0KB01	-



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

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

inal causar	for plug in an with the	yyahla saskete		3VA10	3VA11
nal covers	for plug-in or withdra		aroa		
	Of the plug-in	ection in the termination or withdrawable socket onto the plug-in or withd			
	Version	Number of poles	Mounting location		
	Short	3P	- 2	-	3VA9153-0KB03
		4P	- ②	-	3VA9154-0KB03
0 7					
	Extended 1)	3P	- ②	-	3VA9153-0KB04
arme)			- 2	-	3VA9154-0KB04
	Broadened 1)	3P			3VA9153-0KB05
•		4P	- @	_	3VA9154-0KB05
ating plates	Version	Number of poles	Mounting location		
	Standard	2P		-	3VA9111-0WJ20
	Standard	3P	① -	3VA9111-0WJ30	3VA9111-0WJ30
		4P	① -	3VA9111-0WJ40	3VA9111-0WJ40
	Broadened	3P	① -	3VA9111-0WK30	3VA9111-0WK30
	broaderied	4P	① -	3VA9111-0WK40	3VA9111-0WK40
			w .		
barriers					
	Mounting location	on Scope of supply			
	1 2	2 phase barriers		3VA915	52-0WA00
	- ②	2 phase barriers			-
ctive sleeve	e for insulation of rea				
	Mounting location				
UU	2	3 protective sleeves	5		-
sulation pla		d-mounted molded case	circuit breakers		
	Number of poles				12.05610
	3P				13-0SG10
	4P			3VA91	14-0SG10
olates for 3		d molded case circuit b	reakers		
	Number of poles				
n n	2P	On 2-pole molded of	case circuit breakers	-	3VA9112-0SG20

		3VA13		
	3VA20	3VA14		l
	3VA21	3VA23	3VA15	
3VA12	3VA22	3VA24	3VA25	3VA26
3VA9253-0KB03	3VA9163-0KB03	3VA9353-0KB03	3VA9603-0KB03	-
3VA9254-0KB03	3VA9164-0KB03	3VA9354-0KB03	-	-
3VA9253-0KB04	3VA9163-0KB04	3VA9353-0KB04	-	-
3VA9254-0KB04	3VA9164-0KB04	3VA9354-0KB04	-	-
3VA9253-0KB05	3VA9163-0KB05	3VA9353-0KB05	-	-
3VA9254-0KB05	3VA9164-0KB05	3VA9354-0KB05	-	-
_	-	-	-	-
3VA9211-0WJ30	3VA9221-0WJ30	3VA9481-0WJ30	-	-
3VA9211-0WJ40	3VA9221-0WJ40	3VA9481-0WJ40	-	-
3VA9211-0WK30	3VA9221-0WK30	3VA9481-0WK30	-	-
3VA9211-0WK40	3VA9221-0WK40	3VA9481-0WK40	-	-
3VA9252-0WA00	3VA9262-0WA00	3VA9482-0WA00	3VA9602-0WA00	3VA9602-0WA00
JVN3Z3Z-UVVNUU			3VA9602-0WA05	3VA9602-0WA05
			3 VA 3002-0 VVA03	3473002-044703
			2)/40602-014/105	
_	_	_	3VA9603-0WH05	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

## Plug-in and withdrawable technology

#### Thanks to plug-in and withdrawable technology:

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

#### In addition, withdrawable technology offers:

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

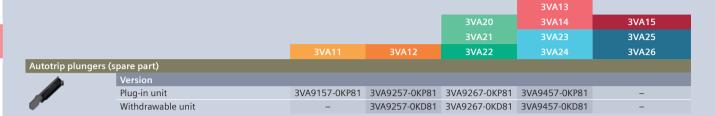
For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

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

					3VA13	
				3VA20	3VA14	3VA15
				3VA21	3VA23	3VA25
		3VA11	3VA12	3VA22	3VA24	3VA26
Plug-in units, comp	olete kits					
	Scope of supply:     Plug-in socket     Plug-in unit, conversion kit     Mounting screw kit     Note on 3VA9603-0KP00:     An undervoltage release (UVR) (article number 3VA9908-0BB) is required in the circuit breaker in					
dda	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	21/40442 01/200	21/10212 01/202	20112422	21/4 22 22 21/22	21/40/02 01/200
	3P 4P		3VA9213-0KP00			3VA9603-0KP00
Plug-in units, conv		3VA9114-UKP00	3VA9214-0KP00	3VA9124-UKPUU	3VA9324-UKPUU	-
Trag-III utilits, conv	Scope of supply:					
okana	Screw-fastened terminal covers for molded case circuit breakers     Plug-in contacts     Cable cages     Autotrip plunger					
ថថថ	Number of poles	_		_	_	
	3P	3VA9113-0KP10	3VA9213-0KP10	3VA9123-0KP10	3VA9323-0KP10	-
	4P		3VA9214-0KP10			-
Plug-in units, conv	ersion kits with blade contacts					
636363	Scope of supply:     6 × blade contacts     Guide frame for circuit breaker     2 × cover for blade contacts     Position signaling switch     Connecting cable for auxiliary circuits  Number of poles					
	3P	-	-	-	-	3VA9603-0KP10
Cable cages for plu	ıg-in/withdrawable units (spare part)					
Historiani Historian	For routing of the required cables from the internal accessories on the back of the circuit breaker					
	Number of poles	21/40452 21/252	2)/40253 2/253	2) (4.04.67.0) (5.0	2)/40267 2:/22	
D ( III - 1	3P/4P	3VA9157-0KB02	3VA9257-0KB02	3VA9167-0KB02	3VA9367-0KB02	-
Door feedthroughs						
		-	3VA9257-0KT00	3VA9167-0KT00	3VA9367-0KT00	-

## 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
A					3VA21	3VA23	3VA25
Accessories			3VA11	3VA12	3VA22	3VA24	3VA26
Communications int							
	Scope of supp	<del></del>					
	Set of cables w signaling switc	ith three special position	3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00	3VA9987-0KC00	-
		0 connecting cables					
fff"		g					
Position signaling sv	witches for with	drawable unit and plug-i	in unit				
A	Note on 3V						
3		gnaling switches can be the plug-in base.					
	ilistalled ili t	ine plug-in base.	_				
-			3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00	3VA9987-0KB00	3VA9603-0KB00
Connecting cables							
	Use						
		position signaling	3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10	3VA9987-0KC10	-
		mmunication with					
d .	COM060						
6 1 6 31 1	For auxiliary cir	rcuits	-	-	-	-	3VA9603-0KP80
Cranks for withdraw	Version	Scope of supply					
	Insulated	Including crank	21/40097 07091	3VA9987-0KD81	21/40097 07091	21/40097 07091	
	irisulateu	holder	37/3967-01/061	3VA9907-UND01	3VA9907-0KD01	3VA9907-0KD01	_
Auxiliary circuit con	nectors						
4	Each auxilia	ry circuit connector is					
	designed for	r 4 cables.					
14	Version	1.1	21/10/22 21/20/2	2144 222 242 22	21/10007 01/200	2144 22 27 24 22 2	
	For all withdray			3VA9987-0KD80			-
Cylinder locks	For all plug-in u	units	3VA9987-UKP8U	3VA9987-0KP80	3VA9987-UKP8U	3VA9987-UKP8U	-
Cyllinder locks	Scope of su	nnly:					
	<ul><li>1 lock wit</li></ul>						
1	For locking of						
0 1		or 3VA15/3VA25!					
	Key 1	Lock number	2)///0000 0)// 10	21/40000 01/110	21/40000 01/110	21/40000 01/110	
	3	3		3VA9980-0VL10 3VA9980-0VL30			<del>-</del>
	4	4		3VA9980-0VL30			_
Cylinder lock adapte	•	· .	347/3300 04210	31113300 01210	3413300 04210	347,5300 04210	
-40		inauthorized withdrawal					
		of the circuit breaker					
		ndrawable unit ker can be locked in the					
		EST and DISCONNECT					
	positions	EST GITG DISCONNECT					
	Use						
		inder lock in the	3VA9980-0LF40	3VA9980-0LF40	3VA9980-0LF40	3VA9980-0LF40	-
	right-hand side	wall of the withdrawab-					
	ie unit						

### Residual current devices RCD

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

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

#### Residual current devices (RCD) for switch disconnectors and molded case circuit breakers • Mounted onto the side (left) Number Type of poles Pre-alarm Trip alarm operational voltage $U_{\rm e}$ non-tripping frequency TRIP СОМ RCD510 0.03 ... 5 A 127 ... 480 V AC 50/60 Hz 3-pole Type A 0 ... 3 s 4-pole RCD310 Type A 0.03 ... 5 A Instantaneous 127 ... 480 V AC 50/60 Hz RCD510 0.03 ... 5 A 127 ... 480 V AC 50/60 Hz Type A 0...35

#### Residual current devices (RCD) for molded case circuit breakers

	• Mounte	ed below (und	er trip unit)										
	Number of poles	Туре	Sensitivity <sup>3)</sup>	Rated residual response current I <sub>Δn</sub>	Limit value of non-tripping time Δt	Rated operational voltage <i>U</i> <sub>e</sub>	Fault current frequency	Pre-a	NC O COM	COM	Trip a	nlarm	СОМ
Halland .	3-pole	RCD520	Туре А	0.03 5 A	0 3 s	127 480 V AC	50/60 Hz	1	-	-			-
		RCD520B 1)4)	Type B Type B+	0.03 5 A 0.03 0.3 A	0 10 s	127 690 V AC	0 100 kHz	1	•	-	•	•	_
Serve.		RCD820 <sup>2)</sup>	Type A	0.03 30 A <sup>5)</sup>	0 10 s	127 690 V AC	50/60 Hz	2			•		
4444	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	-	-			-
SALK SIKAL		RCD520B <sup>4)</sup>	Type B Type B+	0.03 5 A 0.03 0.3 A	0 10 s	127 690 V AC	0 100 kHz	1	•	-	•	•	-
		RCD820 <sup>2)</sup>	Type A	0.03 30 A <sup>5)</sup>	0 10 s	127 690 V AC	50/60 Hz	2					

#### Residual current releases (spare part)



/ersion Scope of supply

For RCD310 or RCD510 RCR, RCR-RCD cables

#### RCD820 - 3VA2 ETU connecting cables (spare part)

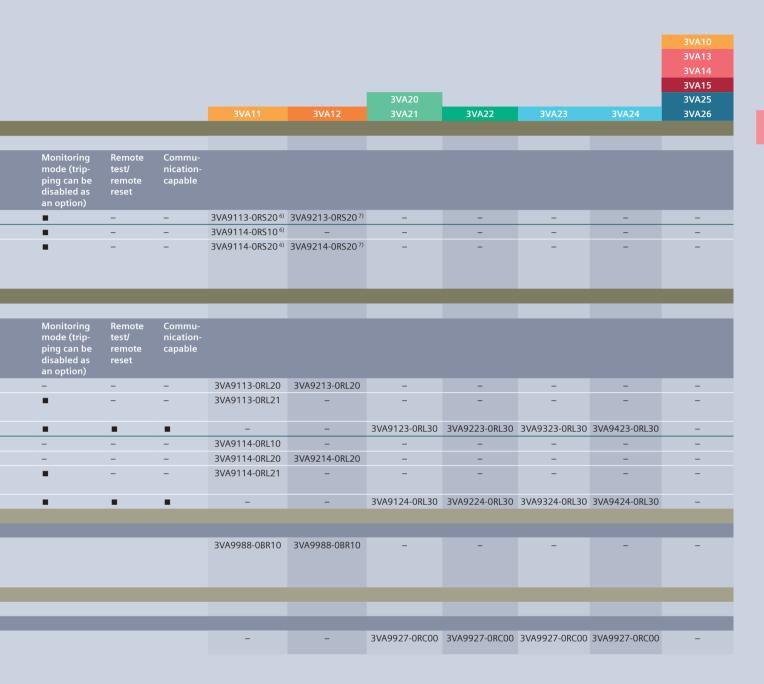
• Connecting cable between the RCD820 and the electronic trip unit (ETU) of a 3VA2



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

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



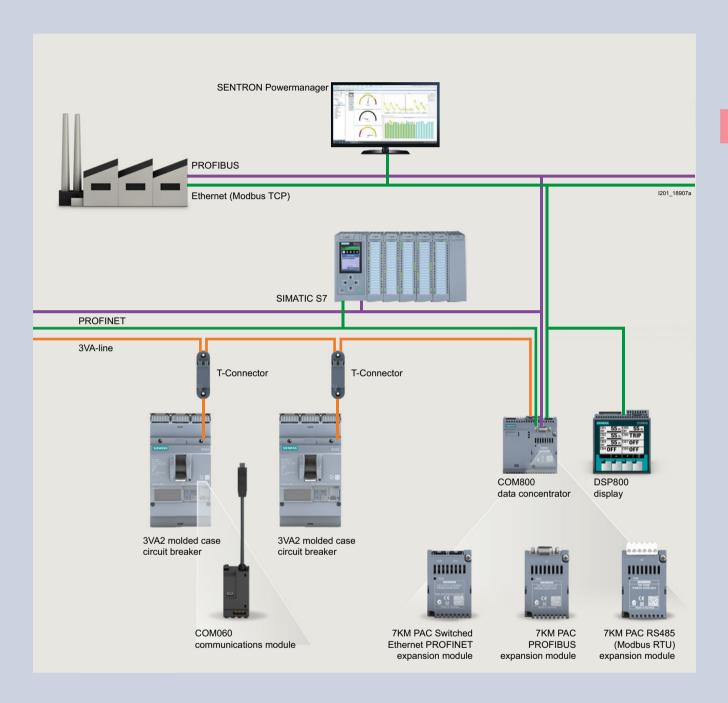
System overview, page 2/20 Siemens LV 10 · 2025 2/57

## Communication

Metering function <sup>1)</sup>			ETU 5-series	ETU 8-series	Display in ETU	Display DSP800	Communication COM800/COM100
Current							
Phase and neutral conductor currents	I <sub>1</sub> , I <sub>2</sub> , I <sub>3</sub> , I <sub>N</sub>	Α					-
Residual current to ground	I <sub>g</sub>	Α					•
Phase with highest load		Α					-
Average value over the three phase currents	$I_{LAVG} = (I_1 + I_2 + I_3)/3$	Α	-		-		-
Asymmetry of the phase currents	I <sub>nba</sub>	%	-		-		-
THD of the 3 phases	THDI <sub>1</sub> , THDI <sub>2</sub> , THDI <sub>3</sub>	%	-		-		
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 <sub>1</sub> , THDI <sub>2</sub> , THDI <sub>3</sub>	%	-		-		
Power							
Active power, total and per phase	$P_1, P_2, P_3, P_{\text{tot}}$	kW	-		$\Box$ ( $P_{\text{tot}}$ )		•
Apparent power, total and per phase	S <sub>1</sub> , S <sub>2</sub> , S <sub>3</sub> , S <sub>tot</sub>	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 <sub>avg</sub> )		
Energy							
Active energy, infeed and feedback	E <sub>p</sub>	kWh	-				•
Reactive energy, infeed and feedback	$E_{\rm q}$	kVArh	-		-		•
Apparent energy	E <sub>s</sub>	kVAh	-		-		•
Frequency							
Present frequency	f	Hz	-				
Min/max pointer function							
Min./max. current, voltage, power	With time stamp	-	-	-	-	-	
Condition Monitoring 2)							
Operating cycles counter	CLOSE-OPEN cycle		•		-	-	•
Operating hours		h			-	-	•
Trip counter	Differentiated by trip causes		•	•	-	-	•
Health indicator <sup>3)</sup>	Incl. contact state	%				-	•
Remaining life time 3)		Time			-	-	
■ Available □ Displayable	- Not available						

			2)/4.2.2
			3VA23
		3VA20	3VA24
		3VA21	3VA25
		3VA22	3VA26
COM060 commun	ications modules		
	<ul> <li>For mounting in the right-hand accessories compartment of the 3VA2 molded case circuit breaker (including ETU power supply)</li> <li>Including a T-Connector</li> </ul>		
	Use		
	Communication to the COM800/COM100 data concentrator via 3VA line	3VA9187-0TB10	3VA9387-0TB10
SLC adapters (spai	re part)		
	Scope of supply		
	5 units	3VA9187-0TB60	3VA9387-0TB60
24 V modules			
N. M.	<ul> <li>24 V DC</li> <li>For mounting in the right-hand accessories compartment of the 3VA2</li> </ul>		
	Use		
	Optional energy supply for the ETU, also includes continuous operation of the ETU display and the metering function of the ETU 8-series	3VA9187-0TB50	3VA9387-0TB50

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

Article No.

#### COM100 data concentrators



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

Article No. 3VA9987-0TA20

Article No.

Article No.

#### 7KM PAC PROFIBUS DP expansion modules



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

7KM9300-0AB01-0AA0

#### 7KM PAC Switched Ethernet PROFINET expansion modules



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

#### Interfaces to IEC 61850

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





Туре	Processor assembly	Article No.
SICAM CP-8021 1)	-	6MF2802-1AA00
SICAM CP-8031 2)	-	6MF2803-1AA00
SICAM CP-8050 <sup>3)</sup>	-	6MF2805-0AA00
SICAM PS-8620	24 60 V DC (12 W)	6MF2862-0AA00
SICAM PS-8622	110 220 V DC (12 W)	6MF2862-2AA00

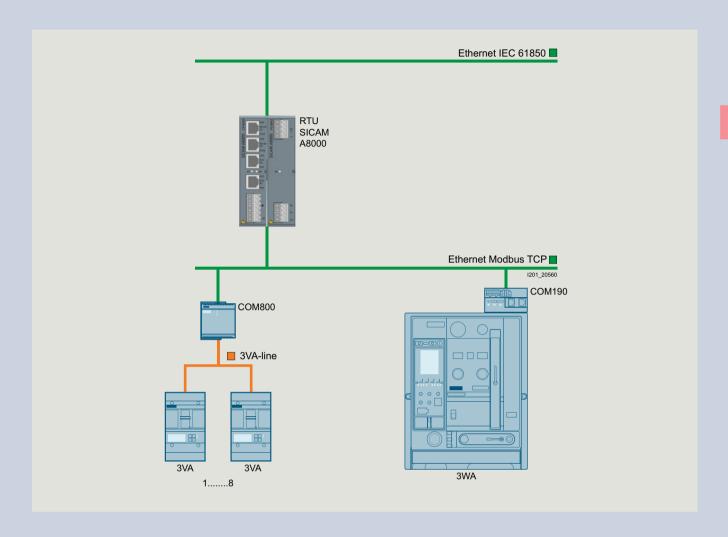
- <sup>1)</sup> Dimensioned for device quantities of max,  $1 \times 3WA$  and  $1 \times 3VA$
- 2) Dimensioned for device quantities of 1 × 3WA and 8 × 3VA
- $^{3)}$  Dimensioned for device quantities of 3  $\times$  3WA and 8  $\times$  3VA or 2  $\times$  3WA and 8  $\times$  3VA and 1  $\times$  PAC4200

You will find further information at:

www.siemens.com/sicam-a8000

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

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### Communication

### **Accessories for communication**

T-connectors (spai	re part)		
CE D	Use		Article No.
FO	Provides a stub connection to the COM060 and loc	pps through to the next circuit breaker.	3VA9987-0TG10
DIN-rail adapters			
1	Use		Article No.
mmm	For snapping the T-Connector onto a DIN rail.		3VA9987-0TG11
Duefa buisa tada asar		COMPONICOMATON	
Prefabricated conf	necting cables, T-connector – T-connector or T-conne	ector – COM800/COM 100	Article No.
	0.4 m		3VA9987-0TC10
	1 m		3VA9987-0TC10
	2 m		3VA9987-0TC20
	4 m		3VA9987-0TC30
Prefabricated con	necting cables for extending the COM060 – T-connec	tor stub connection	3473907-01040
Telabricated coll	Length		Article No.
	0.4 m		3VA9987-0TF20
-	0.8 m		3VA9987-0TF10
Additional bus ter	minating resistors (spare part)		311.3367 611.16
	Use		Article No.
	For COM800 and COM060		3VA9987-0TE10
Valtage top to syl	annal N ann duichean (an ann ann)		
voltage tap to ext	ernal N conductors (spare part)  Use		Article No.
	Cable for connection of the star point for the mete	uring function of the 9 corios ETIL length 1.5 m	3VA9987-0UC10
B	case for connection of the star point for the meter	anig function of the 6-series E10, length 1.5 iii	3447767-00010
External current to	ransformer for N conductors		
	Use	Rated current	Article No.
	For 3VA2 3-pole molded case circuit breakers,	25 150 A	3VA9007-0NA10
7 3	for 5 and 8-series ETUs,	160 350 A	3VA9107-0NA10
<b>1</b>	including connecting cables	400 630 A	3VA9307-0NA10
External current to	ransformers as straight-through transformers		
	Rated current		Article No.
	25 150 A		3VA9077-0NA10
7	160 350 A		3VA9177-0NA10
	400 630 A		3VA9377-0NA10
	600 1250 A		3VA9677-0NA10
Connecting cables	s for external current transformers for N conductors	(spare part)	
/			Article No.
			3VA9907-0NB10
nd.			
10			
_			

### 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



or	or EFB300								
	Length	Use	Article No.						
	1.5 m	For 3VA2 with EFB	3VA9987-0UB10						
	3.0 m	For 3VA2 with EFB	3VA9987-0UB20						
		For 3VA2 with EFB and RCD820	3VA9987-0UB30						

#### **Test devices**



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

Connection

On the front interface of the ETU (3VA and IEC 3WL ETU release 2)

3VW9011-0AT40

#### D500 test devices



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

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

#### External power supplies for TD500 (spare part



Voltage 110 ... 240 V

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



Article No. 3VA9987-0MY10

3VA9987-0MX10

<sup>1)</sup> 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
ocking						
	<ul> <li>The locking provisions make it in either the OFF or the ON or</li> </ul>		ck the 3VA molded case circuit breakers on.			
	Version	3.				
	Cylinder lock Key	/ 1 (lock numb	er 1)		3VA9980-0VL10	
	Key	/ 3 (lock numb	er 3)		3VA9980-0VL30	
	Key	/ 4 (lock numb	er 4)			
	Adapter kit for mounting the cyli of the molded case circuit breake		e RONIS) in the accessories compartment	3VA9157-0LF10	3VA9257-0LF10	3VA9167-0LF10
	Locking provision for handle ope	rating mechar	nism	3VA908	8-0LB10	3VA9388-0LB10
terlocking						
	<ul> <li>Using interlocking technology</li> </ul>	, it is possible t	to mutually interlock two or more			
	molded case circuit breakers.	ed to ensure tl d at a time.	hat no more than one molded case			
	Version					
	Cylinder lock Key	/ 1 (lock numb	er 1)		3VA9980-0VL10	
	Key	Key 3 (lock number 3) Key 4 (lock number 4)			3VA9980-0VL30	
1	Key			3VA9980-0VL40		
1 4	Sliding bar interlock			3VA9158-0VF30	3VA9258-0VF30	3VA9168-0VF30
	Handle interlocking module with	ı Bowden cable		3VA9157-0VF10	3VA9257-0VF10	3VA9167-0VF10
	Bowden cable		Length 0.6 m		3VA9980-0VC10	
			Length 1.0 m		3VA9980-0VC20	
			Length 1.5 m		3VA9980-0VC30	
ST .	Rear interlock with rod		Circuit breaker, fixed-mounted		3VA9088-0VM10	
			Plug-in/withdrawable technology		3VA9088-0VM30	
	Mounting frame for rear interloc	k with rod	Mounting rails		3VA9088-0VK10	
Salara Salara Salara			Mounting plate	3VA9158-0VK20	3VA9258-0VK20	3VA9268-0VK20
With mounting fran	ne for rear interlock.					

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)

	2445							
	BVA13 BVA14	3VA15	l					
	3VA23	3VA25						
	3VA24	3VA26						
		517.120	Locking					
			Use in	Locking in OFF position	Locking in ON position	Front mounting	Rear mounting	Interlocked breakers
	3VA9980	D-0VL10	Breakers, motor				-	- Dieakeis
3VA9980-0VL30		operators, manual						
	3VA9980	0-0VL40	operators, withdrawable technology					
3VA9	367-0LF10	3VA9587-0LF10	Circuit breaker	•	•	•	_	-
3VA9.	388-0LB10	3VA9588-0LB10	Circuit breaker	•	•	•	-	-
			Interlocking					
			interiocking					
			Use in	Locking in OFF position	Locking in ON position	Front mounting	Rear mounting	Interlocked breakers
	3VA9980	D-0VL10	Breakers, manual	•	•	•	-	Unlimited
	3VA9980		operators					
	3VA9980	)-0VL40						
3VA9	368-0VF30	_	Circuit breaker	_			_	3
3VA9.	368-0VF30	-	Circuit breaker	-	-	•	-	3
3VA9	368-0VF30	-	Circuit breaker	-	-	•	-	3
					-			
	368-0VF30 367-0VF10	- 3VA9587-0VF10	Circuit breaker  Circuit breaker	-	-		-	3
					-			
	367-0VF10	3VA9587-0VF10			-			
	367-0VF10 3VA9980	3VA9587-0VF10 0-0VC10			-			
	367-0VF10 3VA9980 3VA9980	3VA9587-0VF10 0-0VC10 0-0VC20			-			
	367-0VF10 3VA9980	3VA9587-0VF10 0-0VC10 0-0VC20			-			
3VA9.	367-0VF10 3VA9980 3VA9980 3VA9980	3VA9587-0VF10 0-0VC10 0-0VC20 0-0VC30	Circuit breaker		-			3
3VA9.	367-0VF10 3VA9980 3VA9980	3VA9587-0VF10 0-0VC10 0-0VC20			-		-	
3VA9: 3VA90 3VA90	367-0VF10 3VA9980 3VA9980 3VA9980	3VA9587-0VF10 0-0VC10 0-0VC20 0-0VC30	Circuit breaker  Circuit breaker, fixed-mounted, plug-in/withdrawable		-		-	3
3VA90 3VA90 3VA90	367-0VF10 3VA9980 3VA9980 3VA9980 088-0VM10 088-0VM30	3VA9587-0VF10 0-0VC10 0-0VC20 0-0VC30 3VA9588-0VM10 <sup>1)</sup>	Circuit breaker  Circuit breaker, fixed-mounted, plug-in/withdrawable technology		-		-	3
3VA90 3VA90 3VA90	367-0VF10 3VA9980 3VA9980 3VA9980 088-0VM10 088-0VM30	3VA9587-0VF10 0-0VC10 0-0VC20 0-0VC30 3VA9588-0VM10 <sup>1)</sup>	Circuit breaker  Circuit breaker, fixed-mounted, plug-in/withdrawable technology		-		-	3
3VA90 3VA90 3VA90	367-0VF10 3VA9980 3VA9980 3VA9980 088-0VM10 088-0VM30	3VA9587-0VF10 0-0VC10 0-0VC20 0-0VC30 3VA9588-0VM10 <sup>1)</sup>	Circuit breaker  Circuit breaker, fixed-mounted, plug-in/withdrawable technology		-		-	3

## Cover frame and mounting

			3VA10		
			3VA11	3VA12	
Cover frames for	door cut-outs for molded case o	ircuit breakers			
	Number of poles	Door cut-out with trip unit			
	3P	No	3VA9053-0SB10	3VA9253-0SB10	
		Yes	3VA9053-0SB20	3VA9253-0SB20	
	4P	No	3VA9054-0SB10	3VA9254-0SB10	
		Yes	3VA9054-0SB20	3VA9254-0SB20	
over frames for	motor operators				
	Use				
	MO320 motor operator		3VA9053-0SB20	3VA9257-0SB30	
	Motor operator with SEO520	O stored energy mechanism	-	-	
over frames for	RCD320, RCD520 and RCD820 re	esidual current devices			
	Number of poles				
	3P		3VA9053-0SB10	3VA9253-0SB10	
	4P		3VA9054-0SB10	3VA9254-0SB10	
lover frames for	front mounted rotary operators				
			3VA9053-0SB10	3VA9253-0SB10	
over frames for	door feedthroughs				
			-	3VA9253-0SB20	
abeling plates fo	or cover frame				
TI			3VA9087-0SX10		
IN-rail adapter f	for 3VA1 molded case circuit bre	eakers			
11	Number of poles				
	1P		3VA9181-0SH10 <sup>1)</sup>	-	
10.	2P		3VA9182-0SH10	-	
	3P and 4P		3VA9187-0SH10	-	
	3P and 4P in connection wit	h RCD310 or RCD510	3VA9187-0SH20	-	
lounting screw	Use	Number of poles			
	For fixed-mounted circuit	Number of poles	2\/\0111_06610		
	breakers	1P	3VA9111-0SS10	6.00010	
	5.64.16.5	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		4-0SS10	
		3P	-	-	
		4P	<del>-</del>	-	
	Faculting in 19	3P and 4P	- 204004	4.00010	
	For plug-in units	-	3VA911	4-0SS10	
	For plug-in and withdrawab technology		_	3VA9114-0SS10	
For 1-pole 3VA11 i	molded case circuit breakers up to 25 k	A			

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

	3VA13	
3VA20	3VA14	3VA15
3VA21	3VA23	3VA25
3VA22	3VA24	3VA26
3VA9163-0SB10	3VA9383-0SB10	3VA9503-0SB10
3VA9163-0SB20	3VA9363-0SB20	3VA9503-0SB20
3VA9164-0SB10	3VA9384-0SB10	3VA9504-0SB10
3VA9164-0SB20	3VA9364-0SB20	3VA9504-0SB20
3VA9257-0SB30	3VA9377-0SB30	-
3VA9167-0SB30	3VA9377-0SB30	-
3VA9253-0SB10	3VA9303-0SB40	
3VA9254-0SB10	3VA9303-03B40 3VA9304-0SB40	
377,5231 03510	3 77 73 3 7 6 3 5 7 6	
3VA9163-0SB10	3VA9383-0SB10	3VA9503-0SB50
21/40252 05820	2) (4.0252, 05020	
3VA9253-0SB20	3VA9353-0SB20	_
	3VA9087-0SX10	
<del>-</del>	-	-
_	-	-
-	-	-
-	-	-
-	-	-
3VA9126-0SS10	-	-
3VA9124-0SS10	-	-
-	3VA9328-0SS10	3VA9517-0SS10
-	-	3VA9603-0SS10
3VA9124-0SS10	3VA9328-0SS10	<del>-</del>

## System overview

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

### Molded case circuit breakers

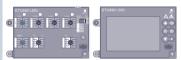




Handle

Stored energy mechanism

### Trip units



Electronic trip unit (ETU)

### Accessories









Communications module

Rating plugs

Breaker Connect module

Test devices and breaker data adapters

### Main conductor connections



Rear vertical/ Rear

broadened



Front

extended

Front

broadened



Cable lug

### Accessories



### Motors

horizontal



Spring charging

#### Accessories



Mechanical operating cycles counter (MOC)

### Auxiliary releases/closing coils



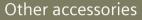


Undervoltage release (UVR)/ Shunt trip (ST)

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

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



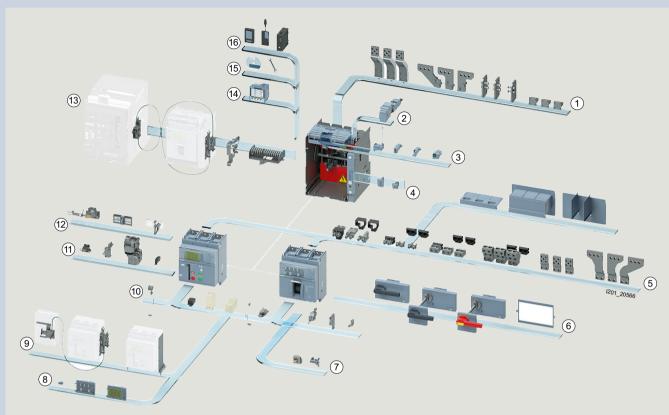




#### Note:

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

## System overview



- 1 Connection technology for guide frame
- 2 Position signaling switch
- (3) Communication modules
- 4 Locking for guide frame
- (5) Connection technology for fixed-mounted circuit breaker
- (6) Manual operators
- 7 Sliding bar interlock
- 8 Electronic trip units (ETUs)
- 9 Interocking for fixed-mounted circuit breaker

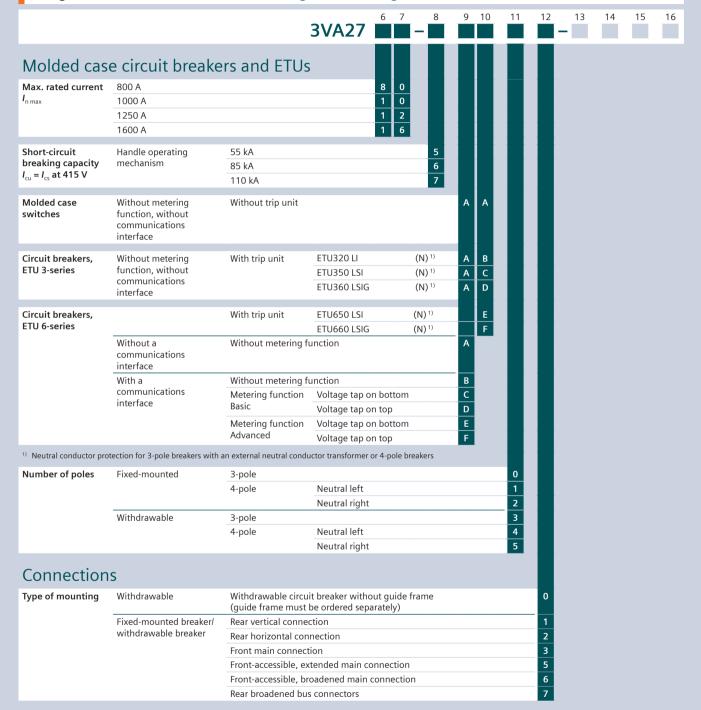
- (10) Auxiliary and alarm switches/auxiliary releases
- (11) Spring charging motor and accessories
- (2) Accessories for locking, blocking, and interlocking for synchronizable spring charging motor (SEO)
- (13) Interlocking for guide frame/external accessories
- 14 DSP800 display
- (15) SENTRON Powerconfig software
- (16) Test devices

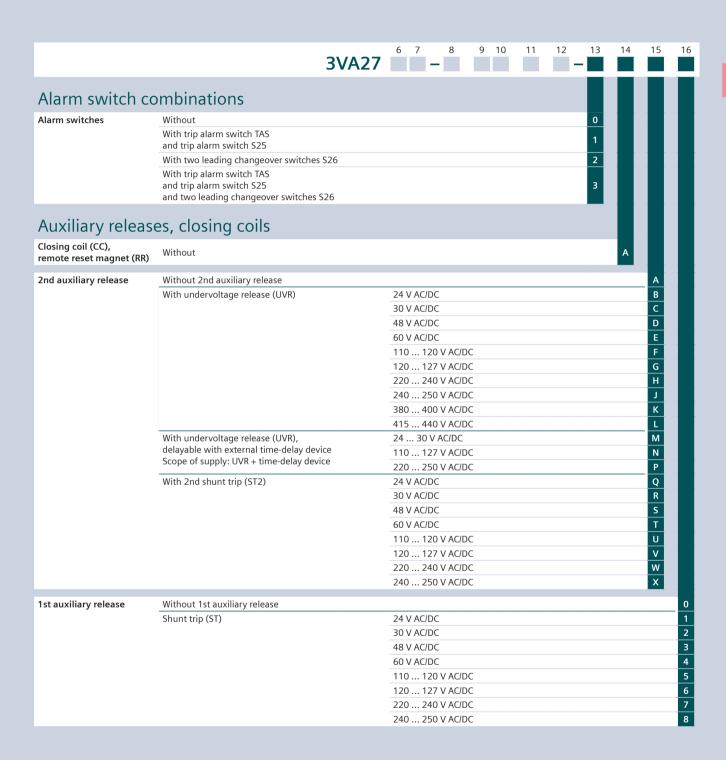
2

## Structure of the article numbers

Basic configuration with handle operating mechanism 🚄

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

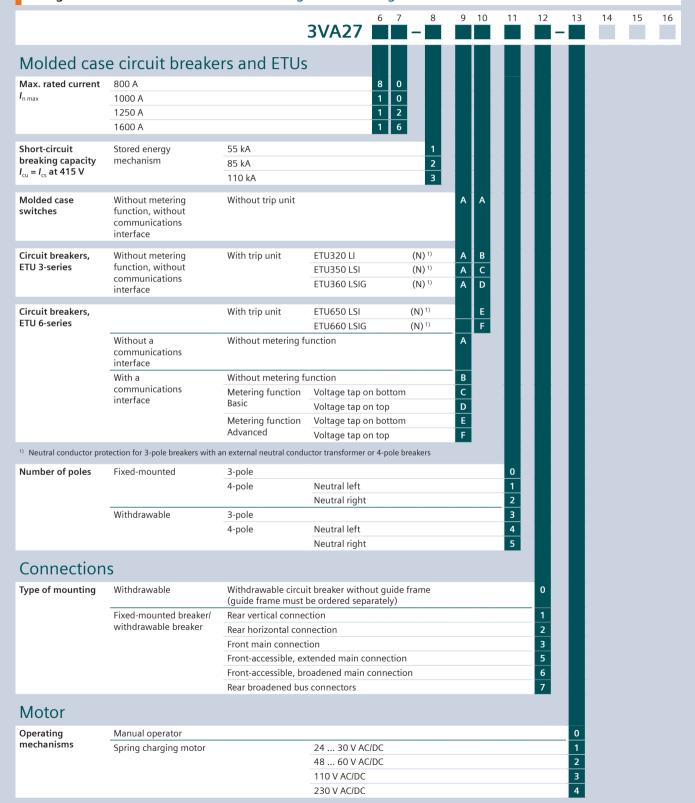




## Structure of the article numbers

## 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 releas	es, closing coils, remote res	et magnets		
Closing coil (CC),	Without	A		
remote reset magnet (RR)	Closing coil (CC)	24 V AC/DC B		
	a.osg co (ee,	30 V AC/DC C		
		48 V AC/DC D		
		60 V AC/DC		
		110 120 V AC/DC		
		120 127 V AC/DC G		
		220 240 V AC/DC		
		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		
2nd auxiliary release	Without 2nd auxiliary release		А	
	With undervoltage release (UVR)	24 V AC/DC	В	
		30 V AC/DC	С	
		48 V AC/DC	D	
		60 V AC/DC	Е	
		110 120 V AC/DC	F	
		120 127 V AC/DC	G	
		220 240 V AC/DC	Н	
		240 250 V AC/DC	J	
		380 400 V AC/DC	K	
		415 440 V AC/DC	L	
	With undervoltage release (UVR),	24 30 V AC/DC	М	
	delayable with external time-delay device	110 127 V AC/DC	N	
	Scope of supply: UVR + time-delay device	220 250 V AC/DC	Р	
	With 2nd shunt trip (ST2)	24 V AC/DC	Q R	
		30 V AC/DC	R	
		48 V AC/DC	S T	
		60 V AC/DC		
		110 120 V AC/DC	U	
		120 127 V AC/DC	٧	
		220 240 V AC/DC	W	
		240 250 V AC/DC	Х	
1st auxiliary release	Without 1st auxiliary release			0
	Shunt trip (ST)	24 V AC/DC		1
		30 V AC/DC		2
		48 V AC/DC		3
		60 V AC/DC		4 5
		110 120 V AC/DC		5
		120 127 V AC/DC		6
		220 240 V AC/DC		7
		240 250 V AC/DC		8

# Accessory options

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

To specify the options, add "-Z" to the complete article number and Order code indicate the appropriate order code(s). 3VA27..-...-Z Accessories for basic configuration Mounting options for fixed-mounted circuit breakers • In the basic configuration, the fixed-mounted circuit breaker is mounted onto the rear panel. Floor mounting is possible as an option. The device must additionally be modified if it is to be extended to include functionalities such as external auxiliary switches or mechanical interlocking mechanism.1) A07 Mounting options for Floor mounting Mounting support standard **≧** fixed-mounted circuit Mounting support extended 2) ¥ 1 breakers13 Rear panel mounting onto mounting plate Side wall extended 2) **₹** Accessories for electronic trip units ETU Rating plugs As standard, the electronic trip units are equipped with a rating plug for setting the rated current Int 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  $I_n$ To downrate the circuit breaker, a rated current smaller than  $I_{n \text{ max}}$  is selected for the rating plug via a Z option. • Other functions can also be activated using rating plugs (L = OFF or Rc protection). B04 For setting the rated current  $I_{n}$ For all FTUs Rating plug 400 A ₹ 🔏 ₹ B06 630 A 800 A ₹ 4 1000 A ₹ 4 1200 A ₹ ∡ For setting the rated current  $I_n$ , with overload For 6-series ETUs 400 A ₹ 1 protection L = OFF X 630 A ∡ Ĭ 800 A 4 1000 A ₹ 4 1250 A ₹ 4 1600 A ₹ \_ For setting the rated current  $I_n$ , For ETU660 only 400 A ₹ 4 G04 For enabling the residual current protective function. ₹ 630 A \_ G06 The residual current function is only possible with the 800 A ₹ \_ MF Advanced metering function. ₹ 🚣 1250 A Communications modules Up to 2 different communication modules can be used at the same time. • When using an IOM040 digital I/O module (Z option K56), only 1 communication module can be used. COM040 **PROFIBUS** ₹ 🔏 Communications modules COM041 **PROFINET** Ĭ 4 ₹ COM043 Modbus TCP 4 COM042 ₹ 🔏 Modbus RTU F12 **Breaker Connect modules** When a circuit breaker with a communications interface is ordered, a Breaker Connect module for external 24 V DC power supply of the electronic components is also supplied ready installed as standard. By means of this Z option, the Breaker Connect module for 24 V DC is replaced by a Breaker Connect module for 110 ... 240 V AC/DC. **Breaker Connect module** 110 ... 240 V AC/DC ₹ 🚣 I/O modules internal I/O modules internal IOM040 digital I/O module 2 inputs, 2 outputs K56 For molded case circuit breakers with stored energy mechanism 1) These functionalities can be applied directly to the frame of the withdrawable circuit breaker, without any modification of the side wall. ∡ For molded case circuit breakers with handle operating mechanism

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

To specify the options, a appropriate order code(s	dd "-Z" to the complete article n s).	umber and indicate the 3VA27		Z	Order code
Accessories for a	motors				
Mechanical operating cycles	s counter, 5-digit		W -	-	C01
Auxiliary and signaling swi     For currents < 100 mA for     The auxiliary/signaling swi     a minimum load above	es and signaling swit tches for currents > 100 mA and up to PLC connections, these auxiliary and si tches for 24 V DC digital signals are de 1 mA at 5 V DC, and pacity of 100 mA at 24 V DC.	400 V AC are installed as standard. ignaling switches can be replaced.			
Position signaling switches	for guide frames 1)	2 CO   2 CO   2 CO (connected   test   disconnected position)	<b>X</b> 4	4	K55
Signaling switch	Ready-to-close signaling switch Trip alarm switch (S24) Spring charge signaling switch (S2*	1 CO digital 24 V DC 1 CO digital 24 V DC 1) 1 CO digital 24 V DC	W -	<b>(</b>	K50 K53 K54
Auxiliary switch	on/off Aux	4 CO digital 24 V DC 2 CO 400 V AC, and 2 CO digital 24 V DC	W 4		K51 K52
Locking provisions 1)	To prevent movement of the withdrawable circuit breaker	Cylinder lock Made by RONIS For no more than 3 padlocks, 8 mm	W 4		R78 R65
Locking mechanism	To prevent movement to disconnec	ted position	<b>E</b> 4	4	R79
Locking provision	Against unauthorized closing in the operator panel (safe OFF)	Cylinder lock, made by RONIS  For no more than 3 padlocks, plastic 4 mm  For no more than 1 padlock, metal 7 mm  For no more than 2 padlocks, metal 8 mm	- WW	-	508 522 523 507
Interlocking set	For mechanical ON and/or OFF on the operator panel	For no more than 3 padlocks, plastic 4 mm  For no more than 1 padlock, metal 7 mm  For no more than 2 padlocks, metal 8 mm	W -	-	S42 S43 S44
Protective cover	For mechanical ON/OFF, not lockab	le	¥ -	-	S41
Door sealing frame IP30	IP3x		<b>1</b> 4	4	T30

 $<sup>\</sup>begin{tabular}{ll} \begin{tabular}{ll} \beg$ 

<sup>∡</sup> For molded case circuit breakers with handle operating mechanism

<sup>1)</sup> 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.

5	,	
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 Order code indicate the appropriate order code(s). 3VW8....-....-Z Locking, blocking and interlocking Locking provision To prevent movement of the Cylinder lock, made by RONIS R78 **≧** withdrawable circuit breaker For no more than 3 padlocks, 8 mm ₹ 🚣 R65 Locking mechanism To prevent movement to disconnected position (only in combination with R78 or R65) ₹ 🚣 R79 Auxiliary/signaling switches For 24 V DC digital signals, Position signaling switch PSS 2 CO | 2 CO | 2 CO (connected | test | disconnected position) **₹** for guide frame for minimum currents

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.
- $\begin{tabular}{ll} \begin{tabular}{ll} \beg$
- ∡ For molded case circuit breakers with handle operating mechanism

3VA27

# Electronic trip unit ETU and accessories

							3VA27
ctronic trip unit	ts (ETU)						
	Version	With communications/ metering function, enhanced protective functions	Туре	Protective function			Article No.
	With rotary coding switches	No	ETU320	LIN	M	∡	3VW9011-5AA00
• u			ETU350	LSIN	M	∡	3VW9012-5AA00
-			ETU360	LSING	W	∡	3VW9012-7AA00
	With display	Yes	ETU650	LSIN	W	∡	3VW9017-5AA00
199			ETU660	LSING	IWI	∡	3VW9017-7AA00
ering function	s for ETU650 or ETU660						
let.	Description	Protective function/version		Arrangement			Article No.
9	Metering function	MF Basic	-	-	W	∡	3VW9011-0AT01
2		MF Advanced	-	-	¥	∡	3VW9011-0AT04
	Set of cables for voltage tap for MF	For 4-pole circuit breakers with N conductor right	-	Top or bottom	WW	∡	3VW9011-0AT08
A CONTRACTOR OF THE PARTY OF TH		For 4-pole circuit breakers	-	Гор	W	∡	3VW9011-0AT75
		with N conductor left	I	Bottom	Ĭ.	∡	3VW9011-0AT76
		For 3-pole circuit breakers	-	Гор	W	∡	3VW9011-0AT72
			1	Bottom	W	∡	3VW9011-0AT73
ernal current tr	ansformers for N conductors						
7.00	Accessory for	Use					Article No.
		030					7 ti ticic 140.
	ETU320, ETU350, ETU360, ETU650, ETU660	Only for 3-pole circuit breakers			IWW	<u> </u>	3VW9011-0AA30
ernal current tr		Only for 3-pole circuit breakers			IWI	<b>4</b>	
ernal current tr	ETU650, ETU660	Only for 3-pole circuit breakers			IWI	<u> </u>	
ernal current tr	ETU650, ETU660  ansformers for grounded trans	Only for 3-pole circuit breakers former neutral points			IVM		3VW9011-0AA30
ernal current tr	eTU650, ETU660 ransformers for grounded transformers	Only for 3-pole circuit breakers former neutral points $G_{\rm ret}$ (Ground return)				<b>∡</b>	3VW9011-0AA30  Article No.
	ensformers for grounded transformers for grounded transformers for ETU660	Only for 3-pole circuit breakers  former neutral points $G_{ret}$ (Ground return)  100 A  250 A  or residual current measurement			MMI	<b>∡</b>	3VW9011-0AA30  Article No. 3VW9011-0GF30
	ensformers for grounded transformers for grounded transformers for ETU660	Only for 3-pole circuit breakers  former neutral points  G <sub>ret</sub> (Ground return)  100 A  250 A  or residual current measurement etering function and Rc rating plug			MMI	<b>∡</b>	3VW9011-0AA30  Article No. 3VW9011-0GF30 3VW9011-0GF31
	ensformers for grounded transformers for grounded transformers for ETU660	Only for 3-pole circuit breakers  former neutral points $G_{ret}$ (Ground return)  100 A  250 A  or residual current measurement			IWI IWI	<u> </u>	3VW9011-0AA30  Article No. 3VW9011-0GF30
	ansformers for grounded trans Accessory for ETU660  ht transformers external Rc-CT for Only with MF Advanced m	Only for 3-pole circuit breakers  former neutral points  G <sub>ret</sub> (Ground return)  100 A  250 A  or residual current measurement etering function and Rc rating plug			MMI	<u> </u>	3VW9011-0AA30  Article No. 3VW9011-0GF30 3VW9011-0GF31
nmation currer	ansformers for grounded trans Accessory for ETU660  ht transformers external Rc-CT for Only with MF Advanced maccessory for	Only for 3-pole circuit breakers  former neutral points  G <sub>ret</sub> (Ground return)  100 A  250 A  or residual current measurement etering function and Rc rating plug Use  For external residual current measurement			IWI IWI	<u> </u>	Article No. 3VW9011-0GF30 3VW9011-0GF31 Article No.
nmation currer	ansformers for grounded transformers for grounded transformers external Rc-CT for transformers external Rc-CT for Only with MF Advanced maccessory for ETU660	Only for 3-pole circuit breakers  former neutral points  G <sub>ret</sub> (Ground return)  100 A  250 A  or residual current measurement etering function and Rc rating plug Use  For external residual current measurement	ipping as a resu	It of overcurrent	DAN DAN	£	Article No. 3VW9011-0GF30 3VW9011-0GF31 Article No.
nmation currer	ansformers for grounded transformers for grounded transformers external Rc-CT for transformers external Rc-CT for Only with MF Advanced maccessory for ETU660	Only for 3-pole circuit breakers  former neutral points  G <sub>ret</sub> (Ground return)  100 A  250 A  or residual current measurement etering function and Rc rating plug Use  For external residual current measurement including tripped signaling	ipping as a resu	lt of overcurrent	DAN DAN	£	Article No. 3VW9011-0GF30 3VW9011-0GF31 Article No.
nmation currer	ansformers for grounded transformers for grounded transformers for grounded transformers external Rc-CT for transformers external Rc-CT for Only with MF Advanced maccessory for ETU660  The transformers external Rc-CT for transformers external Rc-CT for for transformers external Rc-CT for formers for transformers external Rc-CT for for ETU660  The transformers for grounded transformers external Rc-CT for for ETU660  The transformers for grounded transformers external Rc-CT for for ETU660  The transformers for grounded transformers for grounded transformers for ETU660  The transformers for grounded transformers for grounded transformers for ETU660  The transformers external Rc-CT for for for for for ETU660  The transformers external Rc-CT for for for for for for ETU660  The transformers external Rc-CT for	Only for 3-pole circuit breakers  former neutral points  G <sub>ret</sub> (Ground return)  100 A  250 A  or residual current measurement etering function and Rc rating plug  Use  For external residual current measurement including tripped signaling for resetting the circuit breaker after tr	ipping as a resu	lt of overcurrent	DAN DAN	£	3VW9011-0AA30  Article No. 3VW9011-0GF30 3VW9011-0GF31  Article No. 3VW9011-0RC30
nmation currer	eru650, ETU660  ransformers for grounded transformers for grounded transformers external Rc-CT for transformers external Rc-CT for Only with MF Advanced management Accessory for ETU660  nets RR for the circuit breakers  Remote reset magnet (RR)  Accessory for	Only for 3-pole circuit breakers  former neutral points  G <sub>ret</sub> (Ground return)  100 A  250 A  or residual current measurement etering function and Rc rating plug  Use  For external residual current measurement including tripped signaling for resetting the circuit breaker after trivoltage	ipping as a resu	lt of overcurrent	w	∡ ∡ litions	Article No. 3VW9011-0GF30 3VW9011-0GF31  Article No. 3VW9011-0RC30
nmation currer	ansformers for grounded transformers for grounded transformers for grounded transformers external Rc-CT for transformers external Rc-CT for Only with MF Advanced maccessory for ETU660  The transformers external Rc-CT for transformers external Rc-CT for for transformers external Rc-CT for formers for transformers external Rc-CT for for ETU660  The transformers for grounded transformers external Rc-CT for for ETU660  The transformers for grounded transformers external Rc-CT for for ETU660  The transformers for grounded transformers for grounded transformers for ETU660  The transformers for grounded transformers for grounded transformers for ETU660  The transformers external Rc-CT for for for for for ETU660  The transformers external Rc-CT for for for for for for ETU660  The transformers external Rc-CT for	Only for 3-pole circuit breakers  former neutral points  G <sub>ret</sub> (Ground return)  100 A  250 A  or residual current measurement etering function and Rc rating plug  Use  For external residual current measurement including tripped signaling for resetting the circuit breaker after trivoltage  24 V DC	ipping as a resu	lt of overcurrent	w w	∡ ∡ litions	Article No. 3VW9011-0GF30 3VW9011-0GF31  Article No. 3VW9011-0RC30  Article No. 3VW9011-0AK03
nmation currer	ansformers for grounded transformers for grounded transformers for grounded transformers external Rc-CT for transformers external Rc-CT for Only with MF Advanced maccessory for ETU660  The transformers external Rc-CT for transformers external Rc-CT for for transformers external Rc-CT for formers for transformers external Rc-CT for for ETU660  The transformers for grounded transformers external Rc-CT for for ETU660  The transformers for grounded transformers external Rc-CT for for ETU660  The transformers for grounded transformers for grounded transformers for ETU660  The transformers for grounded transformers for grounded transformers for ETU660  The transformers external Rc-CT for for for for for ETU660  The transformers external Rc-CT for for for for for for ETU660  The transformers external Rc-CT for	Only for 3-pole circuit breakers  former neutral points  G <sub>ret</sub> (Ground return)  100 A  250 A  or residual current measurement etering function and Rc rating plug  Use  For external residual current measurement including tripped signaling for resetting the circuit breaker after trivoltage  24 V DC  110 V AC/DC	ipping as a resu	It of overcurrent	www.ww	∡ ∡ litions	Article No. 3VW9011-0GF30 3VW9011-0GF31  Article No. 3VW9011-0RC30  Article No. 3VW9011-0AK03 3VW9011-0AK03
nmation currer	eru650, ETU660  ransformers for grounded transit Accessory for ETU660  at transformers external Rc-CT for Only with MF Advanced management (RC-CT for ETU660)  nets RR for the circuit breakers  Remote reset magnet (RR)  Accessory for ETU320, ETU350, ETU360, ETU650, ETU660	Only for 3-pole circuit breakers  former neutral points  G <sub>ret</sub> (Ground return)  100 A  250 A  or residual current measurement etering function and Rc rating plug  Use  For external residual current measurement including tripped signaling for resetting the circuit breaker after trivoltage  24 V DC  110 V AC/DC  250 V AC/DC	ipping as a resu	It of overcurrent	www.ww	∡ ∡ litions	Article No. 3VW9011-0GF30 3VW9011-0GF31  Article No. 3VW9011-0RC30  Article No. 3VW9011-0AK03 3VW9011-0AK03

₹ For molded case circuit breakers with stored energy mechanism

 $oldsymbol{\measuredangle}$  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.					
In =400A	Accessory for	Version		Rated current I	n		Article No.
		Rating plugs for setting ( $< I_{n \text{ max}}$ )		400 A	¥	4	3VW9011-0AA53
		the rated current I <sub>n</sub>		630 A	M	4	3VW9011-0AA55
	E10000			800 A	¥	∡	3VW9011-0AA56
				1000 A	¥	∡	3VW9011-0AA57
				1250 A	¥	∡ _	3VW9011-0AA58
				1600 A	W	4	3VW9011-0AA61
	ETU 6-series	Rating plug without overload protection (L = C	OFF)	400 A	¥	∡	3VW9011-0LF53
		and for setting ( $< I_{n \text{ max}}$ ) the rated current $I_{n}$		630 A	M	∡	3VW9011-0LF55
				800 A	W	4	3VW9011-0LF56
				1000 A	M	∡	3VW9011-0LF57
				1250 A	W	∡	3VW9011-0LF58
				1600 A	W	∡ _	3VW9011-0LF61
	ETU660	Rating plug Rc for ETU660 for enabling of the		400 A	W	4	3VW9011-0RC53
		current protective function and setting ( $< I_{n \text{ ma}}$		630 A	W	4	3VW9011-0RC55
		rated current $I_n$ . A residual current function is possible with the MF advanced metering func		800 A	M	4	3VW9011-0RC56
		possible with the init davanced metering rune		1250 A	W	4	3VW9011-0RC58
4	breaker. This can a	with ETU of the 6-series and require a Breaker Co also be configured directly on the device by mear IU 6-series is selected.					
	Communications module	Protocol					Article No.
	COM040	PROFIBUS			W	∡	3VW9011-0AT15
	COM041	PROFINET			W	4	3VW9011-0AT14
	COM043	Modbus TCP			¥	4	3VW9011-0AT16
	COM042	Modbus RTU			W	4	3VW9011-0AT17
CB bus modules - I/C	O modules external IO	M300					
	For snapping onto	DIN rail					
Rin	Accessory for	Maximum switching current per contact	Inputs	Outputs			Article No.
	ETU 6-series	<ul> <li>2 A at ≤ 30 V DC</li> <li>0.8 A at 50 V DC</li> <li>0.2 A at 150 V DC</li> <li>4 A at 250 V AC</li> </ul>	11	10	MM	<b>4</b>	3VW9011-0AT20
CB bus modules - I/C	O modules internal IOI	M040					
	When using a digi	ital I/O module IOM040, only 1 communication n	nodule can	be used.			
	Accessory for	Maximum switching current per contact	Inputs	Outputs			Article No.
ANNAHAR.	ETU 6-series	<ul> <li>2 A at ≤ 30 V DC</li> <li>0.8 A at 50 V DC</li> <li>0.2 A at 150 V DC</li> <li>4 A at 250 V AC</li> </ul>	2	2	MM	∡	3VW9011-0AT30

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

#### 3VA27 • For switching the circuit breaker on/off remotely via communication. Actuation of the closing coil (CC) and the 1st shunt trip (ST). Can only be used in combination with a communications module, spring charging motor, closing coil and 1st shunt trip. Automatically included if the communications interface of the ETU 6-series is selected in the basic circuit breaker configuration. Accessory for Article No. 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 **X** 3VW9011-0AT07 · Auxiliary contacts for signaling the readiness to close or for position signaling switches of the withdrawable positions. • Can only be used in combination with communications module. Can be combined with standard position signaling switches or ready-to-close signaling contacts. Note: Both signaling switches are automatically included in the basic circuit breaker (COM PSS only with withdrawable versions) if the communications interface of the ETU 6-series is selected. Article No. Ready-to-close signaling switch for communication (COM RTC) ₹ -3VW9011-0AT11 Position signaling switch COM PSS (for withdrawable breaker only) ₹ 🚣 3VW9011-0AT12 • Usable for all ETU 3-series and 6-series Description Article No. TD310 **X** 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 storage

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

Readout of ETU buffer

Generation of a report of the set parameters

## Accessories for connection and insulation

						3VA27
nt main connec	ctions acc. to IEC 60947		P	11:1 X		
		7-2 for 3VA27 up to 1600 A (depending eparately for top and bottom	g on application co	inditions)		
	Mounting	Version	Mounting onto	Number of poles/	quantity	Article No.
	Fixed-mounted	Front main connections	-	3-pole/3 units	₩ 🚣	3VW9011-0AL01
03 03				4-pole/4 units	₩ 🚣	3VW9011-0AL02
4_4		Extended main terminals,	Front main	3-pole/3 units	<b>₹</b> ∡	3VW9011-0AL77
		including insulation plate and phase barriers, standard	connections	4-pole/4 units	₹ ∡	3VW9011-0AL78
		Broadened main terminals, including insulation plate	Front main connections, top	3-pole/3 units	₹ 🛣	3VW9011-0AL73
		and extended phase barriers	Front main connections, bottom	3-pole/3 units	<b>M</b> ∡	3VW9011-0AL75
			Front main connections, top/ bottom	4-pole/4 units	₹ ∡	3VW9011-0AL74
9,0	Withdrawable	Front-accessible terminals for	Guide frame	3-pole/3 units	1 ∡	3VW9011-0AN01
		main circuit connection	flange	4-pole/4 units	₹ ∡	3VW9011-0AN02
		Broadened main circuit	Front-accessible	3-pole/3 units	<b>₹</b> ∡	3VW9011-0AN73
		connections	terminals for main circuit connection	4-pole/4 units	w <u>∡</u>	3VW9011-0AN74
terminals for	main circuit connectio	ns acc. to IEC 60947-2				
		7-2 for 3VA27 up to 1600 A (depending parately for top and bottom	g on application co	nditions)		
	Mounting	Version	Mounting onto	Number of poles/	quantity	Article No.
	Fixed-mounted	Rear terminals for main circuit	-	3-pole/3 units	₹ 🚣	3VW9011-0AL32
.,6		connection, rotatable for horizontal/vertical connection, including terminal cover		4-pole/4 units	¥ <b>∡</b>	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
19		Broadened main terminals	Rear horizontal	3-pole/3 units	₹ 🔏	3VW9011-0AN75
			main connec- tions	4-pole/4 units	¥ 🚣	3VW9011-0AN76
cable conne	ctions acc. to IEC 6094	7-2				
		7-2 for 3VA27 up to 1600 A (depending parately for top and bottom		nditions)		
	Mounting	Version	Mounting onto	Number of poles/	<u> </u>	Article No.
-	Fixed-mounted	Circular conductor terminals	Front main	3-pole/3 units	₹ 🔏	3VW9011-0AL71
00 00		4 × 240 mm <sup>2</sup> for front cable connection <sup>1)</sup> , including insulation plate and high, extended terminal cover	connections	4-pole/4 units	w 🚣	3VW9011-0AL72
-0	Withdrawable	Set of circular conductor	Rear vertical	3-pole/3 units	₹ ∡	3VW9011-0AN71
100		connection pieces 4 × 240 mm <sup>2</sup> for cable lugs for rear cable connection	main connections	4-pole/4 units	≣ ∡	3VW9011-0AN72

<sup>1)</sup> For connecting Al cables up to 1000 A

 $<sup>\</sup>mbox{\ensuremath{\mbox{\footnote{1}}}}\mbox{\ensuremath{\mbox{\mbox{\footnote{1}}}}\mbox{\ensuremath{\mbox{\footnote{1}}}}\mbox{\ensuremath{\mbox{\footnote{1}}}}\mbox{\ensuremath{\mbox{\footnote{1}}}}\mbox{\ensuremath{\mbox{\footnote{1}}}}\mbox{\ensuremath{\mbox{\mbox{\footnote{1}}}}\mbox{\ensuremath{\mbox{\mbox{\footnote{1}}}}\mbox{\ensuremath{\mbox{\mbox{\mbox{\footnote{1}}}}}\mbox{\ensuremath{\mbox{$ 

 $<sup>\</sup>checkmark$  For molded case circuit breakers with handle operating mechanism

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

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

# Motor operators and manual operators

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

**፮** For molded case circuit breakers with stored energy mechanism

 $oldsymbol{\measuredangle}$  For molded case circuit breakers with handle operating mechanism

3VA27

## Auxiliary releases, closing coils

### Closing coils CC/shunt trips ST

#### Note:

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



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

## TD320 function test units for closing coils/shunt trips



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

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

### Auxiliary/signaling switches



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

Description	Contacts		Article No.
Ready-to-close signal RTC	1 CO standard	¥ -	3VW9011-0AH01
	1 CO digital	₩ -	3VW9011-0AH02
Auxiliary switch ON/OFF AUX	4 CO standard	¥ 🔏	3VW9011-0AG01
	4 CO digital	₹ 🔏	3VW9011-0AG02
	2 CO standard + 2 CO digital	₹ 🔏	3VW9011-0AG03
External auxiliary switch ON/OFF AUX	15 CO standard	W 🚣	3VW9011-0AG05
	15 CO digital	₹ 🔏	3VW9011-0AG06
Trip alarm switch S24	1 CO standard	₹ 🔏	3VW9011-0AH14
	1 CO digital	. ₹	3VW9011-0AH15
Spring charge signaling switch S21	1 CO standard	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	¥ <b>∡</b>	3VW9011-0AH11
	2 CO   2 CO   2 CO (connected position) digital	₩ 🚣	3VW9011-0AH12

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

## Auxiliary releases, closing coils

#### Auxiliary/signaling switches for handle operating mechanism · Auxiliary and signaling switches are each offered in two versions: Standard version for currents > 100 mA and up to 400/250 V AC, minimum load above 100 mA at 24 V DC, and maximum breaking capacity 5 A at 250 V AC Digital version for currents < 100 mA for PLC connections, minimum load above 1 mA at 5 V DC, and maximum breaking capacity 100 mA at 24 V DC For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed-mounted circuit breakers a 3VW9011-0BB5x side wall modification. Article No. Trip alarm switch TAS signals the trip position 1 CO standard 4 3VW9727-0AB11 irrespective of the tripping reason 1 CO digital 4 3VW9727-0AB13 Trip alarm switch via auxiliary release S25 signals 1 CO standard 3VW9727-0AB41 1 tripping operations via auxiliary releases (UVR, ST) in 1 CO digital 3VW9727-0AB43 UVR/ST2 pocket Leading changeover switch S26 (2 units) 1 NO standard, 250 V AC - 🚄 3VW9727-0AA21 Fixation for external auxiliary switches AUX 15 CO • External auxiliary switches ON/OFF AUX 15 CO must be ordered separately. Article No. For fixed-mounted circuit breakers with rear panel or floor mounting ₹ 🔏 3VW9011-0AG15 (in combination with Z option S56 or S57) For guide frames ₹ 🔏 3VW9011-0AG17 Undervoltage releases UVR Voltage Article No. 24 V AC/DC Ĭ 3VW9011-0AE01 30 V AC/DC 3VW9011-0AE02 48 V AC/DC 3VW9011-0AE03 60 V AC/DC 3VW9011-0AE04 110 ... 120 V AC/DC 3VW9011-0AE05 120 ... 127 V AC/DC 3VW9011-0AE06 220 ... 240 V AC/DC 3VW9011-0AE07 240 ... 250 V AC/DC 3VW9011-0AE08 380 ... 400 V AC 4 3VW9011-0AE17 415 ... 440 V AC ₹ 🔏 3VW9011-0AE18 External time-delay devices for undervoltage releases • With adjustable delay time from 0.5 to 3 s. · Suitable for mounting onto DIN rail. 24 ... 30 V AC/DC M 3VW9011-0AE10 48 V AC/DC 3VW9011-0AE11 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
- ▲ For molded case circuit breakers with handle operating mechanism

3VA27

# Locking provisions and interlocks

				3VA27
cking provision t	prevent movement of the withdrawable circ	cuit breaker		
	Version			Article No.
	RONIS cylinder lock (spare part for R78)		₹ 🚣	3VW9011-0BA80
	Padlock 8 mm (spare part for R65), for no m	ore than 3 padlocks	₹ ∡	3VW9011-0BA87
king mechanisn	s to prevent movement of the withdrawable	circuit breakers in disconnected position		
	Only possible as a supplement in conjunction	tion with R78 (3VW9011-0BA80) and/or R65 (3VW9011	-0BA87).	
	Description			Article No.
3	Locking mechanism (spare part for R79)		₹ ∡	3VW9011-0BA84
king provisions	•			
	<ul> <li>For fixed-mounted and withdrawable vers</li> <li>Against unauthorized closing in the opera</li> <li>The disconnector unit fulfills the requirem</li> </ul>			
	Description			Article No.
	Cylinder lock, made by RONIS (spare part for	r S08)	- IMM	3VW9011-0BA33
king provisions	n OFF position			
iking provisions	For fixed-mounted and withdrawable vers	sions		
	<ul> <li>Against unauthorized closing in the opera</li> <li>The disconnector unit fulfills the requirem</li> </ul>	ator panel (safe OFF) nents for main circuit breakers according to EN 60204-1		
	Description	Version		Article No.
	Padlock 4 mm (spare part for S22)	Plastic for no more than 3 locks	ቜ -	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	W -	3VW9011-0BA44
king provision ii	n OFF position for handle operating mechanis			
		of molded case circuit breakers with rotary operator	_	Autiala Na
	Description		- 🔏	Article No. 3VW9727-0VL10
	For RONIS		- 🚣	3VW9/2/-0VL10
king provision i	on OFF position for handle operating mechanis	sm without rotary operators		
	Against unauthorized closing in the opera molded case circuit breakers without rota	•		
	Description			Article No.
	For padlocks		- 🔏	3VW9727-0LB10
	For RONIS		- 🔏	3VW9727-0LF10
erlocking sets fo	r mechanical Open and/or Close on the opera	tor 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	<b>M</b> -	3VW9011-0BA23
	Padlock 8 mm (spare part for S44)	Metal for no more than 2 locks	₹ -	3VW9011-0BA24

 $oldsymbol{\measuredangle}$  For molded case circuit breakers with handle operating mechanism

# Locking provisions and interlocks

						3VA27
Protective covers f	for mechanical ON/OFF					
1 940	<ul><li>Mechanical ON/OFF t</li><li>Not lockable.</li></ul>	to protect against unintentio	nal actuation on the operator panel.			
	Description					Article No.
	Not lockable (spare part	t for S41)		W	-	3VW9011-0BA21
Mechanical interlo	ock					
1	<ul> <li>For fixed-mounted ve</li> </ul>	with Bowden cable 2 m ersions, an additional suppor ption S57) must be ordered	t 3VW9011-0BB52 (option S56) or extensi	ion kit		
<b>9</b> 20	Mounting	Mounting				Article No.
E.D.	Fixed-mounted	Rear panel or floor mo	ounting	M	∡	3VW9011-0BB21
	Withdrawable	Mounting onto guide	frame	IW	∡	3VW9011-0BB22
Bowden cables, se	eparate					
	<ul> <li>One required for each</li> </ul>	h circuit breaker				
	Туре					Article No.
	1000 mm					3VW9011-0BB23
	2000 mm					3WL9111-0BB45-0AA
	3000 mm					3WL9111-0BB46-0AA
Locking mechanis	ms to prevent opening of th	he control cabinet doors in	ON position			
Locking mechanis	To prevent opening of	of the control cabinet door in		is open.		
ocking mechanis	To prevent opening of	of the control cabinet door in	ON position	is open.		Article No.
ocking mechanis	<ul><li>To prevent opening o</li><li>It additionally preven</li></ul>	of the control cabinet door in its the circuit breaker from b	ON position eing closed when the control cabinet door		∡	Article No. 3VW9011-0BB10
ocking mechanis	<ul><li>To prevent opening o</li><li>It additionally preven</li><li>Mounting</li></ul>	of the control cabinet door in its the circuit breaker from b	ON position eing closed when the control cabinet door Version	W	∡ ∡	
ocking mechanis	<ul><li>To prevent opening o</li><li>It additionally preven</li><li>Mounting</li></ul>	of the control cabinet door in its the circuit breaker from b	ON position eing closed when the control cabinet door Version Direct fixed interlocking	WW		3VW9011-0BB10
ocking mechanis	To prevent opening o     It additionally preven     Mounting     Fixed mounted on side	of the control cabinet door in its the circuit breaker from b	ON position eing closed when the control cabinet door Version Direct fixed interlocking Locking with Bowden cable	· wa wa	<u> </u>	3VW9011-0BB10 3VW9011-0BB16
	To prevent opening o     It additionally preven     Mounting     Fixed mounted on side    Withdrawable	of the control cabinet door in its the circuit breaker from b	ON position eing closed when the control cabinet door Version Direct fixed interlocking Locking with Bowden cable Direct fixed interlocking	. www ww	<u>∡</u>	3VW9011-0BB10 3VW9011-0BB16 3VW9011-0BB14
	To prevent opening of lt additionally prevent Mounting Fixed mounted on side publications Withdrawable	of the control cabinet door in its the circuit breaker from b panel or floor	ON position eing closed when the control cabinet door Version Direct fixed interlocking Locking with Bowden cable Direct fixed interlocking		<u>∡</u>	3VW9011-0BB10 3VW9011-0BB16 3VW9011-0BB14
	To prevent opening of lt additionally prevent Mounting Fixed mounted on side publications Withdrawable	of the control cabinet door in its the circuit breaker from b panel or floor	ON position eing closed when the control cabinet door Version Direct fixed interlocking Locking with Bowden cable Direct fixed interlocking Locking with Bowden cable		<u>∡</u>	3VW9011-0BB10 3VW9011-0BB16 3VW9011-0BB14
	To prevent opening of lt additionally prevent Mounting Fixed mounted on side    Withdrawable  es IP30 For IP4x and higher, you be part	of the control cabinet door in its the circuit breaker from b panel or floor you must order the protectiv	ON position eing closed when the control cabinet door Version Direct fixed interlocking Locking with Bowden cable Direct fixed interlocking Locking with Bowden cable	# # # # # # # # # # # # # # # # # # #	<u>∡</u>	3VW9011-0BB10 3VW9011-0BB16 3VW9011-0BB14 3VW9011-0BB18
	To prevent opening of It additionally prevent Mounting Fixed mounted on side    Withdrawable  es IP30 For IP4x and higher, you bescription	of the control cabinet door in its the circuit breaker from be panel or floor you must order the protectiv Mounting	ON position eing closed when the control cabinet door Version Direct fixed interlocking Locking with Bowden cable Direct fixed interlocking Locking with Bowden cable e cover IP54 3VW9011-0AP03 or 3VW901	# # # # # # # # # # # # # # # # # # #	<u> </u>	3VW9011-0BB10 3VW9011-0BB16 3VW9011-0BB14 3VW9011-0BB18 Article No.
	To prevent opening of lt additionally prevent Mounting Fixed mounted on side    Withdrawable  es IP30 For IP4x and higher, you be part	of the control cabinet door in its the circuit breaker from be panel or floor  you must order the protective Mounting Fixed-mounted	ON position eing closed when the control cabinet door Version Direct fixed interlocking Locking with Bowden cable Direct fixed interlocking Locking with Bowden cable e cover IP54 3VW9011-0AP03 or 3VW901 Version IP3x	1-0AP13.	<u> </u>	3VW9011-0BB10 3VW9011-0BB16 3VW9011-0BB14 3VW9011-0BB18 Article No. 3VW9011-0AP01
Door sealing frame	To prevent opening of It additionally prevent Mounting Fixed mounted on side Withdrawable  es IP30 For IP4x and higher, you Description Spare part for Z option T30.	of the control cabinet door in its the circuit breaker from be panel or floor  you must order the protective Mounting Fixed-mounted	ON position eing closed when the control cabinet door Version Direct fixed interlocking Locking with Bowden cable Direct fixed interlocking Locking with Bowden cable e cover IP54 3VW9011-0AP03 or 3VW901 Version IP3x	1-0AP13.	<u> </u>	3VW9011-0BB10 3VW9011-0BB16 3VW9011-0BB14 3VW9011-0BB18 Article No. 3VW9011-0AP01 3VW9011-0AP02
Door sealing frame	To prevent opening of It additionally prevent Mounting Fixed mounted on side of Withdrawable  Withdrawable  es IP30 For IP4x and higher, you Description Spare part for Z option T30.  IP54 Protective cover/hood For implementing de	of the control cabinet door in the text the circuit breaker from because of floor  you must order the protective Mounting Fixed-mounted Withdrawable  d IP54 lockable for fixed-mounter of protection IP4x and	ON position eing closed when the control cabinet door Version Direct fixed interlocking Locking with Bowden cable Direct fixed interlocking Locking with Bowden cable e cover IP54 3VW9011-0AP03 or 3VW901 Version IP3x	1-0AP13.	<u> </u>	3VW9011-0BB10 3VW9011-0BB16 3VW9011-0BB14 3VW9011-0BB18 Article No. 3VW9011-0AP01 3VW9011-0AP02
Door sealing frame	To prevent opening of It additionally prevent Mounting Fixed mounted on side of Withdrawable  Withdrawable  es IP30 For IP4x and higher, you Description Spare part for Z option T30.  IP54 Protective cover/hood For implementing de	of the control cabinet door in the text the circuit breaker from because of floor  you must order the protective Mounting Fixed-mounted Withdrawable  d IP54 lockable for fixed-mounter of protection IP4x and	ON position eing closed when the control cabinet door Version Direct fixed interlocking Locking with Bowden cable Direct fixed interlocking Locking with Bowden cable e cover IP54 3VW9011-0AP03 or 3VW901 Version IP3x IP3x IP3x IP3x Inted circuit breakers and withdrawable br IP54 when installing in switchboard door.	1-0AP13.	<u> </u>	3VW9011-0BB10 3VW9011-0BB16 3VW9011-0BB14 3VW9011-0BB18 Article No. 3VW9011-0AP01 3VW9011-0AP02
Door sealing frame	To prevent opening of It additionally prevent Mounting Fixed mounted on side    Withdrawable  es IP30  For IP4x and higher, you be part for Z option T30.  IP54  Protective cover/hood For implementing de Cannot be combined	of the control cabinet door in the text the circuit breaker from because of floor  you must order the protective Mounting Fixed-mounted Withdrawable  d IP54 lockable for fixed-mounter of protection IP4x and	ON position eing closed when the control cabinet door Version Direct fixed interlocking Locking with Bowden cable Direct fixed interlocking Locking with Bowden cable  e cover IP54 3VW9011-0AP03 or 3VW901 Version IP3x IP3x IP3x IP3x IP54 when installing in switchboard door, e and door mounted rotary operator.	T-OAP13.	<u> </u>	3VW9011-0BB10 3VW9011-0BB16 3VW9011-0BB14 3VW9011-0BB18 Article No. 3VW9011-0AP01 3VW9011-0AP02 3VW9011-0AP04

- $\checkmark$  For molded case circuit breakers with handle operating mechanism

## 3VL up to 1600 A, IEC



3VL molded case circuit breaker



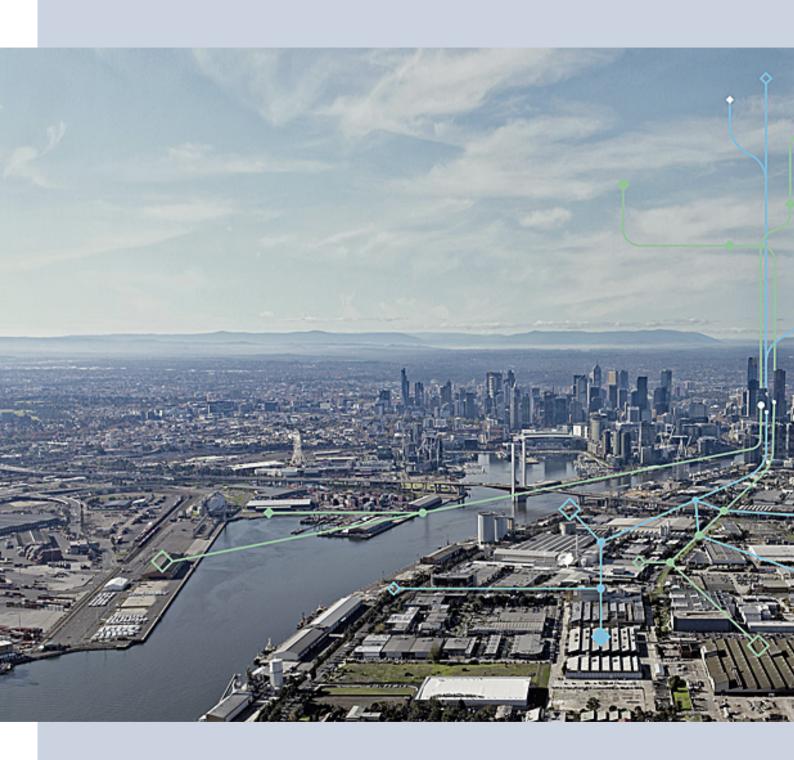
## **Product Discontinuation**

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

### Documents available for downloading:

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

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



A/2

A/4



## Λ

## Conditions of sale and delivery

### 1. General Provisions

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

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

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

- for products, which include specific terms and conditions in the text of the product description, these specific terms and conditions shall apply and subordinate thereto,
- for stand-alone software products and software products forming a part of a product or project, the "General Conditions for Software Products for Infrastructure & Industry Business (German law)"
   <sup>11</sup> and/or
- for consulting services the "Allgemeine Geschäftsbedingungen für Beratungsleistungen für Infrastructure & Industry Geschäft (Deutsches Recht)"<sup>1)</sup> (available only in German) and/or
- for other services, the "Supplementary Terms and Conditions for Services for Infrastructure & Industry Business (German Law) ("BL")"1) and/or
- for other products the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"<sup>1)</sup>.

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

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

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

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for consulting services the "Standard Terms and Conditions for Consulting Services for Infrastructure & Industry Business (Swiss Law)"
   <sup>11</sup> and/or
- for other services the "International Terms & Conditions for Services"
   <sup>(1)</sup> supplemented by "Software Licensing Conditions"
   and/or
- for other products the "International Terms & Conditions for Products"<sup>1)</sup> supplemented by "Software Licensing Conditions"<sup>1)</sup>

### 1.3 For customers with master or framework agreement

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

### 2. Additional Terms and Conditions

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

Illustrations are not binding.

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

<sup>1)</sup> 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

## Α

## 3. Export Control and Sanctions Compliance

#### 3.1 General

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

### 3.2 Checks for Products

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

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

   (a) exported, directly or indirectly (e.g., via Eurasian Economic Union (EAEU) countries), to Russia or Belarus, or
   (b) resold to any third party business partner that does not take a prior commitment not to export such products to Russia or Belarus.

### 3.3 Non-Acceptable Use of Software and Cloud Services

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

- (i) download, install, access or use the products from or in any location prohibited by or subject to comprehensive sanctions or subject or to license requirements according to the Export Regulations;
- (ii) grant access to, transfer, (re-)export (including any "deemed (re-)exports"), or otherwise make available the products to any entity, person, or organization identified on a restricted party list of the Export Regulations;
- (iii) use the products for any purpose prohibited by the Export Regulations (e.g. use in connection with armaments, nuclear technology or weapons);

- (iv) upload to a products platform any customer content unless it is non-controlled (e.g. in the EU: AL = N; in the U.S.: ECCN = N or EAR99);
- (v) facilitate any of the afore mentioned activities by any user. Customer shall provide all users with all information necessary to ensure compliance with the Export Regulations.

### 3.4 Semiconductor Development

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

### 3.5 Information

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

### 3.6 Reservation

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

## 4. Miscellaneous

Errors excepted and subject to change without prior notice.

# Link directory

## Catalog LV 10

## **General information**

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

## Catalogs and further information



LV 10 Low-Voltage Power Distribution and Electrical Installation Technology SENTRON • SIVACON • ALPHA PDF (E86060-K8280-A101-B9-7600)



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



LV 13 3WA Air Circuit Breakers SENTRON PDF (E86060-K8280-B101-A4-7600)



**SiePortal** Information and Ordering Platform on the Internet:

sieportal.siemens.com



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





SITRAIN
Digital Industry Academy
www.siemens.com/sitrain



Industrial Controls SIRIUS PDF (E86060-K1010-A101-B7-7600)



**Siemens TIA Selection Tool** for the selection, configuration and ordering of TIA products and devices

www.siemens.com/tst

IC 10

### **Cybersecurity information**

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

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

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

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

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

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

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