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Catalog LV 18 Edition 07/2022

SENTRON

Air Circuit Breakers and Molded Case Circuit Breakers with UL Certification

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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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Air Circuit Breakers and Molded Case Circuit Breakers with UL Certification

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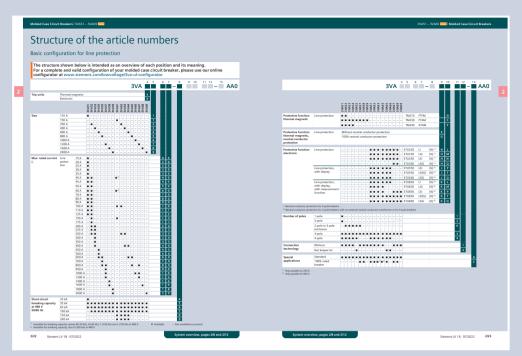
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The fast route to the product

Overview of configurable products for better understanding



Configurable products

For products which are conveniently configurable online, the structure of the article numbers is clearly displayed. A link takes you directly to the configurator which permits complete and valid configuration.

Clickable article numbers

Direct forwarding to the individual products in the Industry Mall by clicking on the article number in the catalog



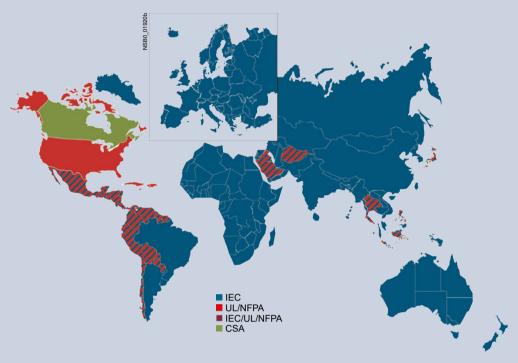
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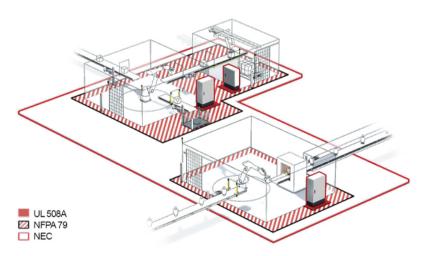
Overview of the key US standards



UL and IEC are fundamentally different. The IEC standards for the IEC market merely define the minimum safety requirements for a device or system. The technical details relating to how safety requirements are to be implemented are in practice a matter for the manufacturer. Every electrical machine or system in the USA is investigated by an inspector, the so-called Authority Having Jurisdiction (AHJ), prior to commissioning. The National Electrical Code (NEC), respective application-specific standards as well as local standards and specifications form the basis for acceptance.

The following standards are of essential importance to mechanical engineers and panel builders:

- UL 508A for industrial control panels
- NFPA 79 (Electrical Standard for Industrial Machinery) for industrial machines
- NEC (National Electrical Code, NFPA 70) for electrical on-site installation



You will find further information at: www.siemens.com/controlpanel

Marks

Applications



The **UL Listing Mark** is the most frequently used symbol. Products (e.g. washing machines, computers, electrical switchgear, fire extinguishers, personal flotation devices, etc.) which carry this mark meet all UL's safety requirements and are allowed to be installed universally and without further instruction or restriction of use. Our own portfolio, for example, offers contactors in accordance with UL 508 or circuit breakers in accordance with UL 489.



C-UL Listing Mark: This mark is applied to products for the Canadian market. You will see this mark on appliances and computer equipment, vending machines, household burglar alarm systems, lighting fixtures, and many other types of products.



C-UL US Listing Mark: Introduced in 1998, this mark indicates compliance of the products with both Canadian and U.S. requirements. The Canada/U.S. UL mark is optional. UL encourages those manufacturers with products certified for both countries to use this combined mark, but they may continue using separate UL marks for the United States and Canada.



Recognized Component Mark: This mark is used on components and devices that are incorporated in machines, systems or products such as washing machines. These components may have restrictions on their performance or may be incomplete in construction. The Component Recognition Mark is found on a wide range of products, including some switches, power supplies, printed wiring boards, some kinds of industrial control equipment and many other products. They are allowed to be installed only by properly qualified personnel, as the "Conditions of Acceptability (CoA)" apply to these devices in all cases. Examples of our products that bear the UR mark include our miniature circuit breakers which meet UL 1077, our time switches which meet UL 917, and our SITOR fuses.



Canadian Recognized Component Mark (similar to the Recognized Component Mark – see above): Components approved for the Canadian market carry this mark.



Recognized Component Mark for Canada and the United States: Components carrying this mark, which became effective in 1998, meet the requirements of the US and Canadian markets for Recognized Components. Although UL had not originally planned to introduce a combined Recognized Component Mark, the popularity of Canada/U.S. listing marks among clients led to the new mark.

Certifications such as (a) and (a) are issued by the so-called NRTLs (Nationally Recognized Testing Laboratories) after successful testing. The OSHA (Occupational Safety and Health Administration) has accredited Underwriters Laboratories Inc. as an NRTL.

Overcurrent protection according to network standards

Overcurrent protection

The term "overcurrent" refers to the overload, short-circuit and ground-fault current when this exceeds the rated value of the protective device. Overcurrent protection is understood to be a device designed to open a circuit when the rated current is exceeded. The ampere rating of the device is selected for a circuit to terminate a condition where the current exceeds the rating of conductors and equipment due to overloads, short circuits and faults to ground.

UL 508A distinguishes between straight rating and slash rating. Which of these two ratings applies depends on the existing system type.

Slash rating

There are two voltages (phase – phase/phase – ground) in a solidly grounded wye network. These two voltages are also specified along with the rating, e.g. 480 Y/277 V. A device suitable for this network has a slash rating.



3 phases,

4 conductors

Solidly grounded wye, 3 phases, 4 conductors

Notice: The PE must not carry any current.

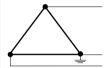
There is no PEN conductor \rightarrow N = grounded conductor (white or gray); separate conductors must be used for PE and N.

Usable line voltages:

600Y/347 V ¹⁾ 480Y/277 V ¹⁾ 240Y/131 V ¹⁾ 208Y/120 V ¹⁾

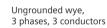
Straight rating

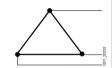
In the common industrial networks (see table) there is only one voltage. Such networks are called "straight networks". When choosing short-circuit protection devices, attention must be paid to whether devices are approved for straight or slash rating.



Corner grounded delta, 3 phases, 3 conductors

3 phases, 3 conductors





3 phases, 3 conductors Ungrounded delta, 3 phases, 3 conductors

Usable line voltages:

600 V 480 V

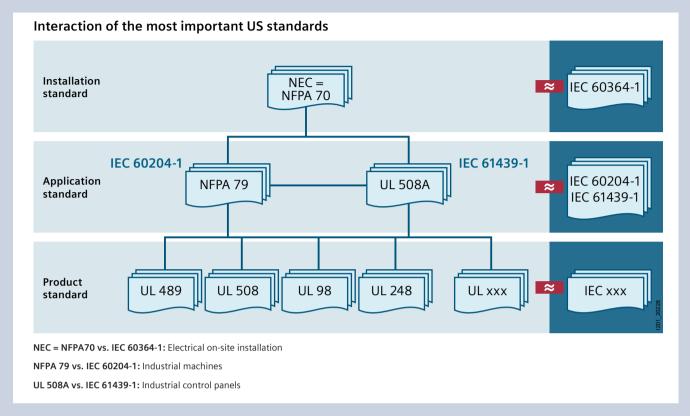
3 phases,

3 conductors

480 V 240 V

¹⁾ Y describes the "Solidly grounded circuit". The value "Y" indicates the voltage between the phases (e.g. 480 V), and the value behind the slash indicates the voltage between the phase and the grounding or the neutral conductor (e.g. 277 V with 480 V voltage between the phases).

Brief code comparison of UL vs. IEC standards



Contact our Support at www.siemens.com/lowvoltage/certificates to find out which products (please specify the article number) are approved according to which standard.

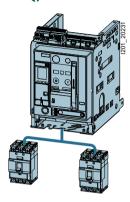
The table below contains a summary of the available products and details of the UL, CSA and IEC standards with which the 3WL5 air circuit breaker and the 3VA5 and 3VA6 molded case circuit breakers comply. However, the table only contains product groups. The product groups mentioned might include individual products which are not approved according to UL or CSA. It is essential therefore to research each individual product via our Support.

			UL	CCN UL		UL	CSA			IEC
		Size	Standard	listed	recognized	Flle Nr.	Standard	File Nr.	Class Nr.	Standard
Air circuit breakers										
ACB	3WL5	≤5000 A	UL 489	DIVQ DIVQ7	-	E231263	cULus appro	ved		IEC 60947-2
Molded case circuit breakers										
Circuit breaker (CB)	3VA51-3VA59	≤2000 A	UL 489	DIVQ DIVQ7	-	E364397			IEC 60947-21	
	3VA61-3VA69	≤2000 A	UL 489	DIVQ DIVQ7	_	E364397				IEC 60947-21
Motor circuit protector (MCP)	3VA51-3VA55	≤800 A	UL 489	_	DKPU2 DKPU8	E482699	cULus appro	cULus approved		IEC 60947-2
	3VA61-3VA66	≤1000 A	UL 489	-	DKPU2 DKPU8	E482699	cULus appro	ved		IEC 60947-2
Molded case switch (MCS)	3VA51-3VA59	≤2000 A	UL 489	WJAZ WJAZ7	-	E482701	cULus appro	cULus approved		IEC 60947-21
	3VA61-3VA66	≤1000 A	UL 489	WJAZ WJAZ7	_	E482701	cULus appro	ved		IEC 60947-2
Circuit breaker accessories	3VA9		UL 489	DIHS DIHS7	DIHS2 DIHS8	E354102	cULus appro	ved		IEC 60947-2

¹⁾ No IEC approval for 3VA59 and 3VA69

Applications

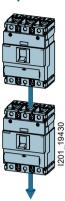
Circuit breaker for line protection/ Inverse time circuit breaker for line protection (CB, CCN code: DIVQ)



The trip units are designed to provide overload and short-circuit protection for:

- Cables
- Leads
- Non-motor loads

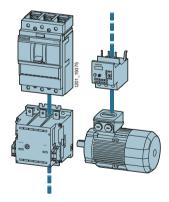
Non-automatic circuit breaker/ Switch disconnector/Molded case switch (MCS, CCN code: WJAZ)



These molded case switches can be used as feeder switches, main switches or non-automatic circuit breakers without overload protection.

They incorporate an integrated short-circuit self-protection system.

Motor circuit protector/ Instantaneous trip circuit breaker/ Protective circuit breaker for motor starter combinations (MCP, CCN-Code: DKPU2)



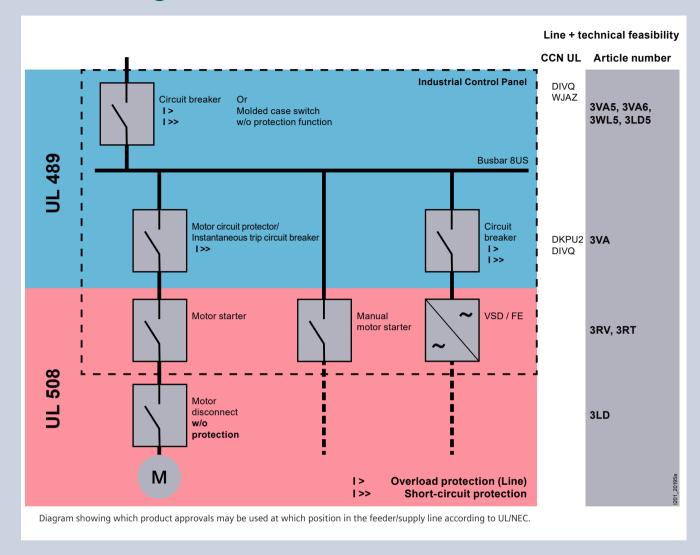
Starter combinations consist of:

Motor circuit protector + contactor + overload relay

The motor circuit protector handles short-circuit protection and the isolating function. The task of the contactor is the operational switching of the feeder. The overload relay handles overload protection that can be specially matched to the motor.

The motor circuit protector is therefore equipped with an adjustable and instantaneous short-circuit release.

Product approvals in control panel according to UL/NEC



Reliable, versatile and perfectly integrated

All power distribution systems rely on a secure infeed of electrical energy. The 3WL air circuit breakers reliably protect electrical equipment from damage or fire resulting from short circuit, ground fault or overload failures.

The 3WL air circuit breakers are used as incoming-feeder, tie, and outgoing-feeder circuit breakers in electrical installations in industry, buildings and infrastructure applications. They have the ability to communicate and can easily be integrated into higher-level control and energy management systems.

The 3WL air circuit breakers switch and protect motors, capacitors, generators, transformers, busbars and cables. The modular design and standardized range of accessories enable the circuit breakers to be adapted flexibly to different applications. UL 489-compliant versions are available for international use.

The 3WL air circuit breakers can optionally be equipped with a communication module and integrated into higher-level energy management systems. Auxiliary, signaling and position switches report status and fault diagnostics remotely to higher-level control systems.



Air Circuit Breakers



A multitude of additional information ...

Information + ordering



All the important things at a glance

For information about air circuit breakers, please visit our website www.siemens.com/3WL



Siemens YouTube channel

• 3WL air circuit breakers (general) bit.ly/2ZH1rXH



Everything you need for your order

Refer to the Industry Mall for an overview of your products

• 3WL air circuit breakers/non-automatic air circuit breakers for AC up to 5000 A, UL sie.ag/2ScRZK7

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



Configurators

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your 3WL air circuit breaker at www.siemens.com/lowvoltage/3wl-configurator

The following are additionally available for your configured 3WL air 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

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SENTRON powerconfig

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

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Your product in detail

The Siemens Industry Online Support (SIOS) provides detailed technical information

www.siemens.com/lowvoltage/product-support

- · Operating instructions
- Characteristic curves
- Certificates

Comprehensive mobile support via the Siemens Industry Online Support app available for download from the **App Store and Play Store**

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

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

- Siemens Industry Mall www.siemens.com/lowvoltage/mall
- Image database www.siemens.com/lowvoltage/picturedb
- Engineering data for CAD or CAE systems are available in the CAx Download Manager at www.siemens.com/cax

Manuals

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

- · Configuration manual
 - 3WL5 air circuit breakers/ non-automatic air circuit breakers (109775570)
- System manual
 - 3WL/3VL circuit breakers with communication capability - Modbus (39850157)
 - 3WL/3VL circuit breakers with communication capability - PROFIBUS (12560390)
- Communication manual
- 3WL air circuit breakers via COM35 PROFINET IO, Modbus TCP (109757987)

Face-to-face or online training

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

- 3WL air circuit breakers, sizes 1-3 (WT-LVA3WL)
- Protection systems in low-voltage power distribution (WT-LVAPS)
- Maintenance and operation of 3WL circuit breakers (LV-CBMAIN) with subsequent certification option (LV-CBCERT)
- Communication with SENTRON components (LV-COM)
- · Project planning and selection of SENTRON circuit breakers (LV-CBPROJ)

Video tutorial on the 3WL air circuit breaker www.lowvoltage.siemens.com/wcms/3wl-tutorial



Technical overview - Air circuit breakers



The fast way to get you to our online services

This page provides you with comprehensive information and links on air circuit breakers www.siemens.com/lowvoltage/product-support (109766020)

Circuit breakers and non-automatic circuit breakers for AC and DC

UL 489/IEC 60947-2

A	iC .

			Herrical				
			3W	L51	3W	L52	
Basic data							
Rated operational voltage U _e		V	600 \	Y/347	6	00	
Rated current I _n		Α	630	. 1600	2000 .	3200	
Size			•	1		2	
Type of mounting			Withdrawable	Fixed-mounted	Withdrawable	Fixed-mounted	
Number of poles			3/4-pole	3/4-pole	3/4-pole	3/4-pole	
Dimensions							
Width (3-pole 4-pole)		mm	320 410	320 410	460 590	460 590	
Height (standard A05, A15, A16, DC greater than 600 V)		mm	465.5	434	465.5	434	
Depth		mm	471	291	471	291	
Approvals							
General product approvals			VDE, UL/cULus, CE	E, CCC, EAC, C-Tick	VDE, UL/cULus, Cl	E, CCC, EAC, C-Tick	
Breaking capacity			9	S		Н	
Short-circuit breaking capacity acc. to UL 489							
Short-circuit breaking capacity up to 480 V AC $I_{cu} = I_{cs}$		kA	6	5	1	00	
Short-circuit breaking capacity up to 600 Y V/347 V AC $I_{cu} = I_{cs}$		kA	5	0	8!	5 ¹⁾	
Short-circuit breaking capacity up to 600 V AC $I_{cu} = I_{cs}$		kA	-	-	8	35	
Short-circuit breaking capacity acc. to IEC 60947-2							
Short-circuit breaking capacity up to 500 V AC $I_{cu} = I_{cs}$		kA	6	5	1	00	
Short-circuit breaking capacity I_{cm} at 500 V AC $I_{cu} = I_{cs}$		kA	14	43	2.	20	
Short-circuit breaking capacity up to 690 V AC $I_{cu} = I_{cs}$		kA	5	0	8	35	
Short-circuit breaking capacity I_{cm} at 690 V AC $I_{cu} = I_{cs}$		kA	10	05	1	87	
Rated short-time withstand current I _{cw} acc. to UL 489							
Rated short-time withstand current I_{cw} at max. delay time t_{sd}	0.4 s	kA	6	5	8	35	
Rated short-time withstand current I _{cw} acc. to IEC 60947-2							
Rated short-time withstand current I_{cw} at max. delay time t_{sd}	0.5 s	kA	6	5	8	35	
	1 s	kA	5	0	8	30	
Rated short-circuit current I_{cc} of the non-automatic air circuit broaders	eakers						
Rated short-circuit current I _{cc} at 600 V DC		kA	-	-		_	
Rated short-circuit current I _{cc} at 1000 V DC		kA	-	-		-	

¹⁾ Covered by 600 V AC (delta) test.





3/W	L53	3WL5232			
544	L33	SWESZSZ			
≤600	Y/347	600			
	5000	3200			
	3	2			
Withdrawable	Fixed-mounted	Fixed-mounted			
3/4-pole	3/4-pole	3-pole			
704 914	704 914	460			
465.5	434	434			
471	291	291			
	, CCC, EAC, C-Tick	VDE, UL/cULus, CE, CCC, EAC, C-Tick			
	1	DC			
	00	-			
8	5	-			
	-	-			
14	20				
	00 20	-			
	20	-			
	.5 87				
	<i>.,</i>				
	5	-			
	5	-			
	0				
	-	25			
	-	-			

System overview, page 1/16

Circuit breakers and non-automatic circuit breakers for AC

UL 489/IEC 60947-2



Rated current I _n			≤1000 A	1600 A	
General specifications					
Isolating function acc. to EN 60947-2			Y	es	
Utilization category			[3	
Permissible ambient temperature	Operation	°C	-25 .	+55	
	Storage	°C	-25.	+70	
Mounting position			NSEO_00061a 30° 30° 30° NSEO_00062a	NSE0_00927	
Degree of protection	With cover		IP:	55	
	Without cover (with door sealing fran	ame) IP41			
Voltage					
Rated operational voltage U _e at 50/60 Hz		V AC	600 \	(/347	
Permissible load at 50/60 Hz					
For main conductors	At 40 °C	А	≤1000	1600	
	At 55 °C	А	≤1000	1600	
	At 60 °C	А	≤1000	1600	
Power loss at I _n					
With 3-phase symmetrical load	Fixed-mounted circuit breaker	W	100	150	
	Withdrawable circuit breaker	W	195	350	
Switching times					
Make time		ms	35		
Opening time		ms	38		
Electrical make time (through activation soleno	oid) 1)	ms	80		
Electrical opening time (through shunt trip)		ms	73		
Electrical opening time (instantaneous undervo	oltage release)	ms	≤80		
Opening time due to ETU, instantaneous short-	circuit release	ms	5	0	
Service life/endurance					
Mechanical	Without maintenance	Operating cycles	10000		
Electrical	Without maintenance	Operating cycles	4000		
Switching frequency					
Mechanical/electrical		1/h	6	0	
Minimum pauses					
Between tripping by the electronic trip unit and (only with automatic mechanical reset of the re		ms	8	0	

¹⁾ Make time through closing coil for synchronization purposes (short-time excited) 50 ms.

3WL52 3WL53





2000 A	2500 A	3000 A	3200 A	4000 A	5000 A
	Ye			Ye	
	-25	.+55		-25	+55
	−25	.+70		-25	.+70
	NSE0_00061a NSE0_00062a	NSEO_00927		NSE0_00061a NSE0_00062a	NSEO_00927
	IP5			IP5	
	IP ²	+1		IP4	+5
600	600	600	600	≤600`	Y/347
2000	2500	3000	3200	4000	5000
2000	2500	3000	3200	4000	5000
2000	2500	3000	3200	4000	5000
180	270	410	410	520	630
320	520	710	710	810	1050
	2				
	3.			3:	
	10	00		10	00
	7. ≤8			7. ≤8	
	50			50	
	100				
	100	000			
	100	00			
	60	0			
	81	0		80	0

System overview, page 1/16

Circuit breakers and non-automatic circuit breakers for AC

UL 489/IEC 60947-2



Rated current I _n			≤1000 A	1600 A	
Connection					
Main conductor minimum cross-sections					
Copper bars, bare		Unit, mm²	2× 6.4 × 76.2		
Auxiliary conductor (Cu) max. number of	auxiliary conductors × cross-section (solid/stra	nded)			
Standard connection = screw Without end sleeve			2× 0.5 2× 1.5 mm² (AWG 20 16); 1× 2.5 mm² (AWG 14)		
	With end sleeve acc. to DIN 46228 Pa	rt 2 ¹⁾	1× 0.5 1× 1.5 mn	n² (AWG 20 16)	
	With twin end sleeve		2× 0.5 2× 1.5 mn	n² (AWG 20 16)	
Screwless connection technology	Without end sleeve		2× 0.5 2× 2.5 mm ² (AWG 20 14)		
	With end sleeve acc. to DIN 46228 Pa	rt 2	2× 0.5 2× 1.5 mm ² (AWG 20 16)		
Minimum dimension of breaker compart	ment				
Width × height × depth	3-pole	mm	400 × 460	0 × 380	
	3-pole with A17	mm	-		
	4-pole	mm	500 × 460	0 × 380	
Weights					
3-pole	Fixed-mounted circuit breaker	kg	43		
	Withdrawable circuit breaker	kg	45		
	Guide frames	kg	25		
4-pole	Fixed-mounted circuit breaker	kg	50		
	Withdrawable circuit breaker	kg	54		
	Guide frames	kg	30		

¹⁾ Notice: Approval of end sleeves.

3WL52 3WL53





2000 A	2500 A	3000 A	3200 A	4000 A	5000 A	
2× 6.4 × 102	2× 6.4 × 127 or 4× 6.4 × 63.5	4× 6.4 × 102	4× 6.4 × 102	4× 10 × 120		
		m² (AWG 20 16); ² (AWG 14)				
	1× 0.5 1× 1.5 m	m² (AWG 20 16)		1× 0.5 1× 1.5 m	m ² (AWG 20 16)	
	2× 0.5 2× 1.5 m	m² (AWG 20 16)		2× 0.5 2× 1.5 mm² (AWG 20 16)		
	2× 0.5 2× 2.5 m			2× 0.5 2× 2.5 mm ² (AWG 20 14)		
	2× 0.5 2× 1.5 m	m² (AWG 20 16)		2× 0.5 2× 1.5 mm ² (AWG 20 16)		
500 × 460 × 380	500 × 460 × 380	500 × 460 × 380	500 × 460 × 380	800 × 460 × 380	800 × 460 × 380	
-	560 × 570 × 500	-	560 × 570 × 500	810 × 570 × 500	-	
600 × 460 × 380	600 × 460 × 380	-	560 × 570 × 500	1000 × 460 × 380	1000 × 460 × 380	
56	59	64	64	8	2	
60	63	68	-	8	8	
31	39	45	-	60		
67	71	77	77	99		
72	76	82	-	106		
37	47	54	-	84		

System overview, page 1/16

Non-automatic circuit breakers for DC

UL 489/IEC 60947-2

			JVVLJZJZ
Rated current I _n			3200 A
General specifications			
Isolating function acc. to EN 60947-2			Yes
Utilization category			В
Permissible ambient temperature	Operation	°C	-25+55
	Storage	°C	-25+70
Mounting position			NSE0_00927
Degree of protection	With cover		IP55
	Without cover (with door sealing frame)		IP41
Voltage			
Rated operational voltage $U_{\rm e}$		V DC	600
Permissible load			
For main conductors, acc. to IEC 60947-2	At 40 °C	А	3200
	At 55 °C	Α	3200
	At 60 °C	Α	3200
For main conductors, acc. to UL 489B	At 40 °C	Α	3200
	At 55 °C	Α	3200
	At 60 °C	Α	3200
Power loss at I _n			
With 3-phase symmetrical load	Fixed-mounted circuit breaker	W	410
	Withdrawable circuit breaker	W	-
Switching times			
Make time		ms	35
Opening time		ms	34
Electrical make time (through activation solo	enoid) 1)	ms	100
Electrical opening time (through shunt trip)		ms	73
Electrical opening time (instantaneous unde	ervoltage release)	ms	≤80
Opening time due to ETU, instantaneous sho	ort-circuit release	ms	50
Service life/endurance			
Mechanical	Without maintenance	Operating cycles	10000
Electrical	Without maintenance	Operating cycles	1000
Switching frequency			
Mechanical/electrical		1/h	60

¹⁾ Make time through activation solenoid for synchronization purposes (short-time excited) 50 ms.

3WL5232

			3WL5232			
Rated current I _n			3200 A			
Connection						
Main conductor minimum cross-sections						
Copper bars, bare		4× 6.4 × 102				
Auxiliary conductor (Cu) max. number of auxiliary conductors x cross-section (solid/stranded)						
Standard connection = strain-relief clamp	Without end sleeve		2× 0.5 2× 1.5 mm² (AWG 20 16); 1× 2.5 mm² (AWG 14)			
	With end sleeve acc. to DIN 46228 Part 2 ²⁾		1× 0.5 1× 1.5 mm ² (AWG 20 16)			
	With twin end sleeve		2× 0.5 2× 1.5 mm ² (AWG 20 16)			
Optional connection = tension spring	Without end sleeve		2× 0.5 2× 2.5 mm ² (AWG 20 14)			
	With end sleeve acc. to DIN 46228	Part 2	2× 0.5 2× 1.5 mm ² (AWG 20 16)			
Weights						
3-pole	Fixed-mounted circuit breaker	kg	64			
Dimensions 3/4-pole						
Fixed-mounted	Width	mm	460/590			
	Height	mm	434			
	Depth	mm	291			
Withdrawable	Height	mm	465.5			
	Depth	mm	471			

²⁾ Notice: Approval of end sleeves.

Electronic trip units ETU

Available for air circuit breakers





			ETU45B (LSI)	ETU45B (LSIG)
Bas	sic protective functions			
L	Overload protection (L tripping)	Setting range of operating value $I_r = I_n \times$	0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.8 0.9 1	0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.8 0.9 1
		Switchable overload protection (from <i>I</i> ² <i>t</i> - to <i>I</i> ⁴ <i>t</i> -dependent function)	•	•
		Setting range of delay t_r at I^2t (Reference point $6 \times I_n$)	2 3,5 5,5 8 10 14 17 21 25 30 s	2 3.5 5.5 8 10 14 17 21 25 30 s
		Setting range of delay t_r at I^4t (Reference point $6 \times I_n$)	1 2 3 4 5 s	1 2 3 4 5s
		Thermal memory can be switched on/off		•
		Phase failure sensitivity / asymmetry	At $t_{sd} = 20 \text{ ms (M)}$	At $t_{sd} = 20 \text{ ms (M)}$
S	Short-time delayed short-circuit protection (ST tripping)	Setting range of operating value $I_{sd} = I_n \times$	1.25 1.5 2 2.5 3 4 6 8 10 12	1.25 1.5 2 2.5 3 4 6 8 10 12 OFF
		Setting range of delay time $t_{\rm sd}$ at l^2t	100 200 300 400 ms	100 200 300 400 ms
		Setting range of delay time t_{sd} ($t = const.$)	M (0.02 ms) 100 200 300 400 ms	M (0.02 ms) 100 200 300 400 ms
		ZSI function	Via module of the Cubicle BUS	Via module of the Cubicle BUS
T	Instantaneous short-circuit protection (INST tripping)	Setting range $2 = I_n \times$	OFF 1,5 2,2 3 4 6 8 10 12 0,8 × I _{cs}	OFF 1.5 2.2 3 4 6 8 10 12 0.8 × I _{cs}
N	Neutral conductor protection	Neutral conductor setting range $I_N = I_n \times$	OFF 50 % 100 %	OFF 50% 100%
G	Ground-fault tripping	Tripping function can be switched on/off	-	•
	(GF tripping)	Alarm function can be switched on/off	-	-
	Detection of ground-fault current through summation current formation with internal or external N conductor	Detection of ground-fault current through external current transformer	-	•
	transformer	Setting range of the operating current $I_g = I_n \times$	-	A ¹⁾ (100/400 A) B ¹⁾ (300/600 A); C ¹⁾ (600/800 A) D ¹⁾ (900/1000 A); E ¹⁾ (1200/1200 A)
		Setting range of the operating current $I_{\rm g}$ for alarm	-	A ¹⁾ (100/400 A); B ¹⁾ (300/600 A); C ¹⁾ (600/800 A); D ¹⁾ (900/1000 A); E ¹⁾ (1200/1200 A)
		Setting range of the delay time $t_{ m q}$	-	100 200 300 400 500 ms
		Switchable ground-fault protection characteristic (<i>I</i> ² <i>t</i> -dependent function)	-	•
		Setting range of delay time t_g at I^2t	-	100 200 300 400 500 ms
		ZSI-G function	-	Via module of the Cubicle BUS

¹⁾ Sizes 1 and 2 / size 3





		ETU45B (LSI)	ETU45B (LSIG)
Parameter set changeover	Switchable between parameter set A and B	-	-
LCD		Optional	Optional
Voltage tap on top/bottom		Optional	Optional
Measurement function		Measurement function Plus	Measurement function Plus
voltage, harmonic distortion currer	otective function: (including: phase asymmetry current/ nt/voltage, under/overvoltage, phase rotation direction, direction, under/over-frequency, protective functions ow)	•	•
Mode of communication			
Communication PROFIBUS PROFIN	IET Modbus RTU Modbus TCP		•
Output modules			
tripping 200 ms, temperature alarm short time-delayed short-circuit rele	, load shedding / load carrying, leading signal, overload n, phase asymmetry, instantaneous short-circuit release, ease, overload trip, neutral conductor trip, auxiliary relay, tripping and ground-fault alarm (only with ground-fault	•	•

System overview, page 1/16

Connection

Main circuit connection

3WL5



Auxiliary circuit connections

3WL5: Withdrawable version

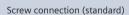
- Connection of the internal auxiliary switches to the male connector on the switch side
- When fully inserted, connection with the sliding contact module in the guide frame

3WL5: Fixed-mounted version

• Engagement of the auxiliary supply connectors directly onto the circuit breaker

Coding pins on the connectors prevent them being inserted in the wrong slots







Screwless connection (tension spring) (optional)

Operating mechanism, auxiliary release, auxiliary switch

Operating mechanism

The circuit breakers are available with various optional operating mechanisms:

- Manual operating mechanism with mechanical closing (standard design)
- Manual operating mechanism with mechanical and electrical closing
- Motorized operating mechanism with mechanical and electrical closing

The operating mechanisms with electrical closing are suitable for synchronization tasks.

	Available for air circuit breakers
	3WL5
Closing coils (CC)	
Undervoltage releases (UVR)/ shunt trips (ST)	•
Shunt trips (ST)	
Remote reset magnets (RR)	•
Motorized operating mechanism (MO)	•
Mechanical operating cycles counters	

System overview, page 1/16

3WL5 system overview

UL 489 AC ..

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

Circuit breakers and non-automatic circuit breakers



Sizes 1 to 3

Trip units





LSIN, LSING

Accessories





Rating plugs







Communication module

Remote reset magnets

Breaker status sensors (BSS)

Ground-fault modules

Main conductor connections



Fixed-mounted, withdrawable versions



Main connection vertical, horizontal, front, flange

Accessories



Operating mechanisms and auxiliary releases





Motorized operating mechanisms

Auxiliary releases

Accessories



Closing coils

Note:

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

Auxiliary switches



Auxiliary switches

Accessories



Position signaling switches

Further accessories















Door sealing frames

Shutters

EMERGENCY-OFF pushbuttons

Operating cycle counters

Support brackets Grounding connections

Interlocking





Interlocking sets

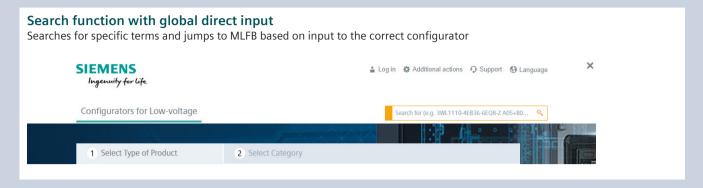
Key operation

Note:

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

Online configurator highlights

www.siemens.com/lowvoltage/configurators

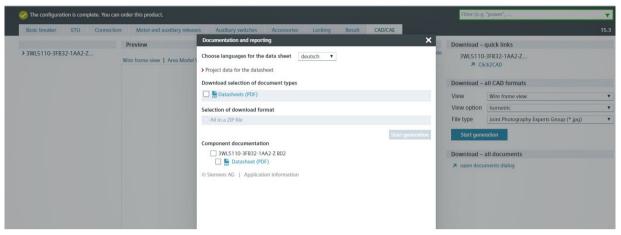




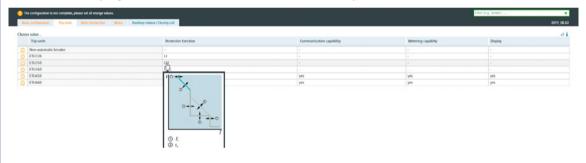


www.siemens.com/lowvoltage/3wl-configurator

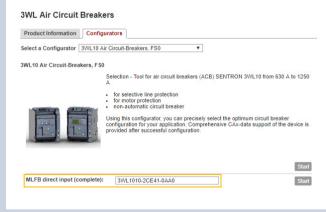
Download an ePlan Selector for 3WL5



Mouseover display of characteristic curves to show the protection function



Direct entry of an already known MLFB or parts of an MLFB



Structure of the article numbers

Basic configuration for AC circuit breakers

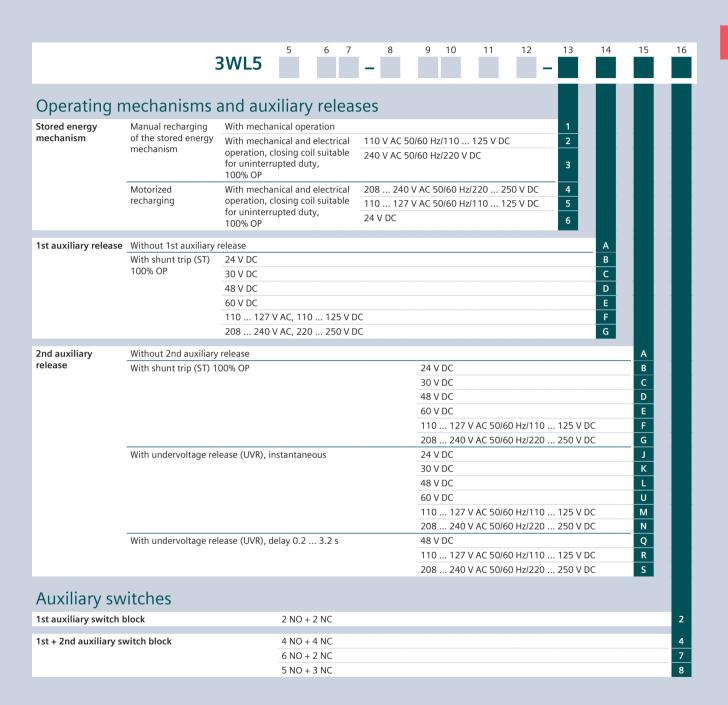
The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

	3	WL	5	5	6	7	8	9	10	11	12	13	14	1
Circuit brea	ker and ETU													
Size (SZ)	1			1										
312e (32)	2			2										
	3			3										
		SZ 1	SZ 2	SZ 3										
Max. rated current	1000 A		- S	- S	1	0								
I _n	1600 A		_	_	1	6								
"	2000 A	-			2	0								
	2500 A	+-	-		2	5								
	3000 A	_	-	-	3	0								
	3200 A	_	■ 1)	_	3	2								
	4000 A	_	_		4	0								
	5000 A	_	_		5	0			i					
Ch and almoste	C Chandand													
Short-circuit breaking capacity I _{cu} at 480 V	S Standard H High	-	-	-	≤65 kA ≤100 kA		4							
Trip units	Without electronic trip	ie							١,					
Trip units	Without ground-fault	ETU4	15R			LSIN		A E	A B					
	protection			/ith di		LSIN		F	В					
	With ground-fault	ETU4		ricii ai		LSING		Ē	G					
	protection	ETU4	15B (w	ith di		LSING		F	G					
Number of poles	3-pole									,				
ramber of poles	4-pole									3 4				
	. poic													
Connection		SZ 1	SZ 2	SZ 3										
Type of mounting	Fixed-mounted		•		Vertical						1			
		•	= 2)	-	Horizont	al					2			
			= 2)	■ 3)	Front sin	-					3			
		•	■ 2)	■3)	Front do		<u> </u>				4			
	Withdrawable	•	= 2)	-	Without						5			
		•	■ 2)	•	Rear hor			n			6			
			■ 2)	3)	Rear vert						7			
			= 2)	■3)	Connecti	ing flang	e				8			

¹⁾ For fixed-mounted versions only

²⁾ Not available for 3200 A

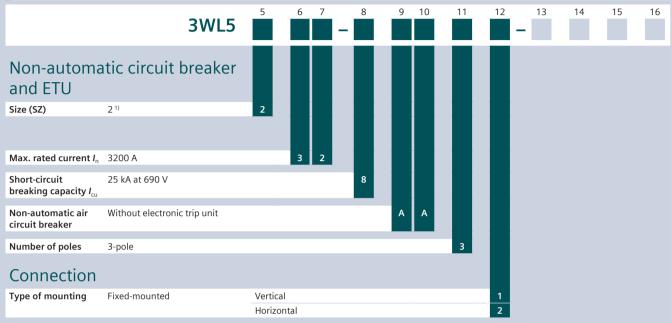
³⁾ Not available for 5000 A



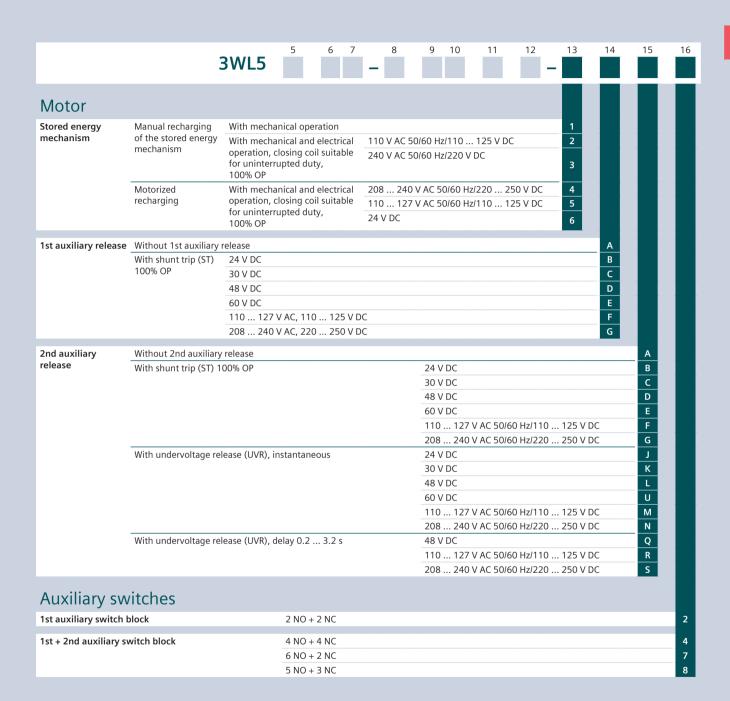
Structure of the article numbers

Basic configuration for DC non-automatic circuit breakers

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



¹⁾ Can also be used for variable frequencies of 0 ... 30 Hz. Z option A17 must always be ordered additionally.



Accessory options

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

To an acifu, the continue and 1 7 t			
appropriate order code(s).	to the complete article nui	mber and indicate the 3WLZ	Order code
Accessories for basic	configuration		
		ling to IEC 60947-2 Annex H	
		-	
Rated operational voltage AC	Size 2	3WL5225-431	A17
		3WL5225-432 3WL5232-431	A17
	Size 3	3WL5340-431	A17
	3126 3	3WL5340-432	A17
		3WL5350-431	A17
		3WL5350-432	A17
Rated operational voltage DC	Size 2	3WL5232-8AA31	A17
		3WL5232-8AA32	A17
 Only one module is possible per circu As standard, the electronic trip units The rated current of the selected rati 	are equipped with a rating plug	g which is equal to the maximum rated circuit breaker current ($I_{n \text{ max}}$).	
Module			
Module	Sizes 1, 2	250 A	B02
Module	Sizes 1, 2	315 A	В03
Module	Sizes 1, 2	315 A 400 A	B03 B04
Module	Sizes 1, 2	315 A 400 A 500 A	B03 B04 B05
Module	Sizes 1, 2	315 A 400 A 500 A 630 A	B03 B04 B05 B06
Module	Sizes 1, 2	315 A 400 A 500 A 630 A 800 A	B03 B04 B05 B06 B08
Module		315 A 400 A 500 A 630 A 800 A 1000 A	B03 B04 B05 B06 B08 B10
Module	Sizes 1, 2	315 A 400 A 500 A 630 A 800 A 1000 A	B03 B04 B05 B06 B08 B10
Module	Sizes 1, 2, 3	315 A 400 A 500 A 630 A 800 A 1000 A 1250 A 1600 A	B03 B04 B05 B06 B08 B10 B12
Module		315 A 400 A 500 A 630 A 800 A 1000 A	B03 B04 B05 B06 B08 B10
Module	Sizes 1, 2, 3	315 A 400 A 500 A 630 A 800 A 1000 A 1250 A 1600 A	B03 B04 B05 B06 B08 B10 B12 B16
Module	Sizes 1, 2, 3	315 A 400 A 500 A 630 A 800 A 1000 A 1250 A 1600 A 2000 A	B03 B04 B05 B06 B08 B10 B12 B16 B20 B25
Module	Sizes 1, 2, 3	315 A 400 A 500 A 630 A 800 A 1000 A 1250 A 1600 A 2000 A 2500 A	B03 B04 B05 B06 B08 B10 B12 B16 B20 B25 B30
Module	Sizes 1, 2, 3 Sizes 2, 3	315 A 400 A 500 A 630 A 800 A 1000 A 1250 A 1600 A 2000 A 2500 A 3000 A	B03 B04 B05 B06 B08 B10 B12 B16 B20 B25 B30
Module Communication and meas	Sizes 1, 2, 3 Sizes 2, 3	315 A 400 A 500 A 630 A 800 A 1000 A 1250 A 1600 A 2000 A 2500 A 3000 A 3200 A	B03 B04 B05 B06 B08 B10 B12 B16 B20 B25 B30 B32 B40
	Sizes 1, 2, 3 Sizes 2, 3 Size 3 Surement function For determining the state	315 A 400 A 500 A 630 A 800 A 1000 A 1250 A 1600 A 2000 A 2500 A 3000 A 3200 A 4000 A	B03 B04 B05 B06 B08 B10 B12 B16 B20 B25 B30 B32 B40
Communication and meas Breaker status sensor (BSS) PROFIBUS DP communication port 1)	Sizes 1, 2, 3 Sizes 2, 3 Sizes 3	315 A 400 A 500 A 630 A 800 A 1000 A 1250 A 1600 A 2000 A 2500 A 3000 A 3200 A 4000 A	B03 B04 B05 B06 B08 B10 B12 B16 B20 B25 B30 B32 B40
Communication and meas Breaker status sensor (BSS) PROFIBUS DP communication port 1) Modbus RTU communication port 1)	Sizes 1, 2, 3 Sizes 2, 3 Size 3 Surement function For determining the statulation of	315 A 400 A 500 A 630 A 800 A 1000 A 1250 A 1600 A 2000 A 2500 A 3000 A 3200 A 4000 A 5000 A	B03 B04 B05 B06 B08 B10 B12 B16 B20 B25 B30 B32 B40 B50
Communication and meas Breaker status sensor (BSS) PROFIBUS DP communication port 1)	Sizes 1, 2, 3 Sizes 2, 3 Size 3 Surement function For determining the statulation of	315 A 400 A 500 A 630 A 800 A 1000 A 1250 A 1600 A 2000 A 2500 A 3000 A 3200 A 4000 A 5000 A	B03 B04 B05 B06 B08 B10 B12 B16 B20 B25 B30 B32 B40 B50

When ordering withdrawable circuit breaker and guide frame separately, specify order code "F02", "F12" or "F35" only for withdrawable circuit breaker.

²⁾ Additional voltage transformers are always required for connection of the measurement function Plus, e.g. GE Grid Solutions Model 468.

To specify the options, add "-Z" to appropriate order code(s).	the complete article n	umber and indicate the	3WLZ	Order code			
Accessories for electro	onic trip units E	TU					
EMC filterCommon-mode interference suppressInsertion loss (asymmetric) in the range							
EMC filter				F31			
Overload and short-circuit Only possible with 4-pole circuit breal	•	tral conductors					
Internal current transformer for	Size 1			F23			
N conductor	Size 2			F23			
	Size 3			F23			
Remote resetting							
Automatic reset of the reclosing locko				K01			
Remote reset for displays and reset but	ittons including automatic r	eset of the reclosing lockout					
Remote reset magnets		K10					
	48 60 V DC						
	120 V AC 50/60 Hz/125			K12			
	208 250 V AC 50/60	Hz/208 250 V DC		K13			
Connection Connection technology for	main connections	(fixed-mounted versions)					
Top: ¹⁾ horizontal	Size 1	≤1600 A		N11			
Bottom: accessible from front, single hole	Size 2	≤2000 A		N11			
		≤2500 A		N11			
	Sing 3	≤3200 A		N11			
	Size 3	≤4000 A		N11			
Top: vertical Bottom: horizontal	Size 1	≤1600 A		N20			
Bottom: Horizontal	Size 2	≤2000 A		N20 N20			
	31ZE Z	≤2000 A ≤2500 A		N20 N20			
		≤3200 A		N20			
	Size 3	≤4000 A		N20			
		≤5000 A		N20			
Top: horizontal	Size 1	≤1600 A		N24			
Bottom: vertical		≤2000 A		N24			
	Size 2	≤2000 A		N24			
		≤2500 A		N24			
		≤3200 A		N24			
	Size 3	≤4000 A		N24			
		≤5000 A		N24			

¹⁾ Cannot be used for DC non-automatic air circuit breakers and circuit breakers with the Z option A17.

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

To specify the options, add "-Z" to t appropriate order code(s).	he complete article number	and indicate the	3WLZ	Order code
Connection				
Connection technology for r	nain connections (with	drawable versions)		
Top and bottom:	Size 1	≤1600 A		P00
accessible from front, single hole	Size 2	≤3200 A		P00
	Size 3	≤4000 A		P00
Top and bottom:	Size 1	≤1600 A		P01
accessible from front, double hole	Size 2	≤3200 A		P01
	Size 3	≤4000 A		P01
Top: horizontal	Size 1	≤1600 A		P07
Bottom: accessible from front, single	Size 2	≤3200 A		P07
hole	Size 3	≤4000 A		P07
Connection technology for r	main connections (with	ndrawable versions)		
Top: vertical Bottom: horizontal	Size 1	≤1600 A		P18
Bottom: norizontal	Size 2	≤3200 A		P18
	Size 3	≤5000 A		P18
Top: connecting flange	Size 1	≤1600 A		P19
Bottom: horizontal	Size 2	≤3200 A		P19
	Size 3	≤4000 A		P19
Top: horizontal	Size 1	≤1600 A		P23
Bottom: vertical	Size 2	≤3200 A		P23
	Size 3	≤5000 A		P23
Top: horizontal	Size 1	≤1600 A		P28
Bottom: connecting flange	Size 2	≤3200 A		P28
	Size 3	≤4000 A		P28
Connection technology for a (for fixed-mounted and with		ers)		
Connection technology for screwless	Fixed-mounted			N61
terminals (tension spring)	Withdrawable			P61

To specify the options, add "-Z" to the complete article number and indicate the appropriate order code(s). Operating mechanisms and auxiliary releases Motorized operating mechanisms Only possible if the 13th digit of the Article number = "1" Only possible if the 13th digit of the Article number = "1" Suitable for uninterrupted duty, 100% OP Only possible if the 13th digit of the Article number = "1" Order cod Order c
Only possible if the 13th digit of the Article number = "1" 24 30 V DC 48 60 V DC 10 127 V AC 50/60 Hz/110 125 V DC M05 208 240 V AC 50/60 Hz/220 250 V DC M06 Mechanical operating cycles counter, 5-digit Colsing coils Suitable for uninterrupted duty, 100% OP Only possible if the 13th digit of the Article number = "1" 48 V DC M23 M23 M23 M23 M23 M24 V DC M25 M2
Article number = "1"
Closing coils
100% OP Only possible if the 13th digit of the Article number = "1" 30 V DC 48 V DC M22
of the Article number = "1"
110 127 V AC 50/60 Hz/110 125 V DC M25 208 240 V AC 50/60 Hz/220 250 V DC M26
Not suitable for uninterrupted duty, 5% OP, synchronizable 3 Only possible if the 13th digit of the Article number = "1"
208 240 V AC 50/60 Hz/220 250 V DC M36 Opening coils (shunt trips) ^{2/3} Not suitable for uninterrupted duty, 5% OP, synchronizable 24 V DC M43 110 127 V AC 50/60 Hz/110 125 V DC M45
Auxiliary switches and signaling switches Auxiliary switches
Position signaling switches for guide frames 1 CO 1 CO 1 CO (connected test disconnected position) R15 3 CO 2 CO 1 CO (connected test disconnected position) R16
Signaling switches Ready-to-close signaling switch (S20) Spring charge signaling switch 4) (S21) 1 NO C20
For the first auxiliary release 5) (S22) 1 CO C26 For the second auxiliary release 5) (S23) 1 CO C27
1st tripped signaling switch ^{4) 6)} (S24) 1 CO K07 2nd tripped signaling switch ^{4) 5) 6)} (S25) 1 NO K06

Only possible with motorized operating mechanism.
 Only possible if the 14th digit of the Article number for the circuit breaker is "A", i.e. "without 1st auxiliary release".

Overexcited, i.e. switching time 50 ms (standard >80 ms).
 Not possible with "communication port" option, order code "F02", "F12" or "F35".

Only possible with option "K07".
 Not available for non-automatic air circuit breakers.

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

appropriate order code(s).	e complete article number and	indicate the	3WLZ	Order code
Further accessories				
Pushbuttons/shutdown switc	hes/closing lockouts			
EMERGENCY-OFF pushbuttons	Mushroom pushbutton instead of th	he mechanical		
, , , , , , , , , , , , , , , , , , ,	OFF pushbutton			S24
Electrical ON button on operator panel ¹⁾ (S10)	This prevents unauthorized electrics operator panel. Mechanical closing closing remain possible. Possible on breakers with closing coil (CC)	and remote	With sealing cap With CES lock	C11 C12
Motor shutdown switch on operator panel ²⁾ (S12)	This prevents automatic charging of mechanism by motorized operating			S25
Special packaging for increas	ed transport requiremen	nts (moisture	protection)	
Cardboard packaging with water-repeller	t coating on corrugated cardboard	(moisture protecti	ion)	A61
Shutters				
Shutter: 2-part, lockable, with padlocks 3)	3-pole/4-pole		Sizes 1, 2, 3	R21
Interlocking				
Mechanical interlocking mec Interlocking module with Bowden cable 2				
		For fixed-mounte		S55
• Interlocking module with Bowden cable 2		For withdrawable	e circuit breakers with guide frame	R55
• Interlocking module with Bowden cable 2		For withdrawable For guide frames		
• Interlocking module with Bowden cable 2	mounted and withdrawa	For withdrawable For guide frames For withdrawable	e circuit breakers with guide frame (ordered separately) e circuit breakers (ordered separately)	R55 R56
 Interlocking module with Bowden cable 2 Mechanical interlock Locking provisions (for fixed- The disconnector unit fulfills the requiren 	mounted and withdrawa nents for main circuit breakers accord Against unauthorized closing from	For withdrawable For guide frames For withdrawable	e circuit breakers with guide frame (ordered separately) e circuit breakers (ordered separately)	R55 R56
 Interlocking module with Bowden cable 2 Mechanical interlock Locking provisions (for fixed- The disconnector unit fulfills the requiren 	mounted and withdrawa	For withdrawable For guide frames For withdrawable able circuit br ding to EN 60204-1 Made by CES Made by IKON	e circuit breakers with guide frame (ordered separately) e circuit breakers (ordered separately) reakers)	R55 R56 R57 S01
 Interlocking module with Bowden cable 2 Mechanical interlock Locking provisions (for fixed- The disconnector unit fulfills the requiren 	mounted and withdrawa nents for main circuit breakers accord Against unauthorized closing from	For withdrawable For guide frames For withdrawable able circuit br ding to EN 60204-1 Made by CES Made by IKON Assembly kit FOR	e circuit breakers with guide frame (ordered separately) e circuit breakers (ordered separately) reakers)	R55 R56 R57 S01 S03 S05
 Interlocking module with Bowden cable 2 Mechanical interlock Locking provisions (for fixed- The disconnector unit fulfills the requiren 	mounted and withdrawa nents for main circuit breakers accord Against unauthorized closing from	For withdrawable For guide frames For withdrawable able circuit br ding to EN 60204-1 Made by CES Made by IKON Assembly kit FOR Assembly kit for p	e circuit breakers with guide frame (ordered separately) e circuit breakers (ordered separately) reakers)	R55 R56 R57 S01 S03 S05 S07
 Interlocking module with Bowden cable 2 Mechanical interlock Locking provisions (for fixed- The disconnector unit fulfills the requiren 	mounted and withdrawa nents for main circuit breakers accord Against unauthorized closing from	For withdrawable For guide frames For withdrawable able circuit br ding to EN 60204-1 Made by CES Made by IKON Assembly kit FOR Assembly kit for p Made by RONIS	e circuit breakers with guide frame (ordered separately) e circuit breakers (ordered separately) reakers) ETRESS or CASTELL 4) padlocks 3)	R55 R56 R57 S01 S03 S05
 Interlocking module with Bowden cable 2 Mechanical interlock Locking provisions (for fixed- 	mounted and withdrawa ments for main circuit breakers accord Against unauthorized closing from the operator panel	For withdrawable For guide frames For withdrawable able circuit br ding to EN 60204-1 Made by CES Made by IKON Assembly kit FOR Assembly kit for p Made by RONIS Made by PROFALI	e circuit breakers with guide frame (ordered separately) e circuit breakers (ordered separately) reakers) ETRESS or CASTELL 4) padlocks 3)	R55 R56 R57 S01 S03 S05 S07 S08
 Interlocking module with Bowden cable 2 Mechanical interlock Locking provisions (for fixed- The disconnector unit fulfills the requirent Locking provisions Locking provisions (for fixed- 	mounted and withdrawa ments for main circuit breakers accord Against unauthorized closing from the operator panel	For withdrawable For guide frames For withdrawable Able circuit br ding to EN 60204-1 Made by CES Made by IKON Assembly kit FOR Assembly kit for p Made by PROFALI Able versions	e circuit breakers with guide frame (ordered separately) e circuit breakers (ordered separately) reakers) ETRESS or CASTELL 4) padlocks 3)	R55 R56 R57 S01 S03 S05 S07 S08
 Interlocking module with Bowden cable 2 Mechanical interlock Locking provisions (for fixed- The disconnector unit fulfills the requirent Locking provisions 	mounted and withdrawanents for main circuit breakers according the operator panel mounted and withdrawanents for charging handle with padlock 30 rawable circuit breaker) nents for main circuit breakers acc. to a is retained when circuit breaker is reserved.	For withdrawable For guide frames For withdrawable able circuit braing to EN 60204-1 Made by CES Made by IKON Assembly kit FOR Assembly kit FOR Made by PROFALI Made by PROFALI Made by PROFALI Bable versions	e circuit breakers with guide frame (ordered separately) e circuit breakers (ordered separately) reakers) ettress or CASTELL 4) padlocks 3) UX	R55 R56 R57 S01 S03 S05 S07 S08 S09
 Interlocking module with Bowden cable 2 Mechanical interlock Locking provisions (for fixed- The disconnector unit fulfills the requirent Locking provisions Locking provisions Locking provisions (for withded) The disconnector unit fulfills the requirent The disconnector unit fulfills the requirent The disconnector unit fulfills the requirent 	mounted and withdrawanents for main circuit breakers according the operator panel mounted and withdrawanents for charging handle with padlock 30 rawable circuit breaker) nents for main circuit breakers acc. to a is retained when circuit breaker is reserved.	For withdrawable For guide frames For withdrawable able circuit braing to EN 60204-1 Made by CES Made by IKON Assembly kit FOR Assembly kit for pade by RONIS Made by PROFALICATION ASSEMBLE Able versions)	e circuit breakers with guide frame (ordered separately) e circuit breakers (ordered separately) reakers) ettress or CASTELL 4) padlocks 3) UX	R55 R56 R57 S01 S03 S05 S07 S08 S09
 Interlocking module with Bowden cable 2 Mechanical interlock Locking provisions (for fixed- The disconnector unit fulfills the requirent Locking provisions Locking provisions Locking provisions (for withdesign provisions) Locking provisions (for withdesign provisions) Not possible in combination with order compared to the connected position, functions Not possible in combination with order compared to the connected position, functions 	mounted and withdrawanents for main circuit breakers accord Against unauthorized closing from the operator panel mounted and withdrawanents for charging handle with padlock 30 rawable circuit breaker) ments for main circuit breakers acc. to its retained when circuit breaker is reded "R81", "R85" or "R86".	For withdrawable For guide frames For withdrawable able circuit braing to EN 60204-1 Made by CES Made by IKON Assembly kit FOR Assembly kit for part Made by PROFALL Made by PROFALL Made by PROFALL Made by PROFALL Made Seplaced.	e circuit breakers with guide frame (ordered separately) e circuit breakers (ordered separately) reakers) ettress or CASTELL 4) padlocks 3) UX	R55 R56 R57 S01 S03 S05 S07 S08 S09

order code "F02", "F12" or "F35".

²⁾ Only for breakers with motorized operating mechanism, not possible with order codes "C11", "C12".

³⁾ Padlock not included in the scope of supply. 4) Locks must be ordered from the manufacturer.

To specify the options, add "-Z" to appropriate order code(s).	the complete article number a	3WLZ	Order code
Interlocking			
Locking provisions (for with • Safety lock for mounting onto the circu)	
Locking provisions	To prevent movement of the	Made by CES	S71
	withdrawable circuit breaker	Made by PROFALUX	S75
		Made by RONIS	S76
Locking mechanisms Not possible in combination with order R30 and R50 only possible on complete		de frame or when ordering the guide frame separately	
For fixed-mounted circuit breakers	To prevent opening of the cabine	t door in ON position	S30
For withdrawable circuit breakers	To prevent opening of the cabine	•	R30
	To prevent movement when the	cabinet door is open	R50
Locking mechanisms to predisconnected position Consisting of Bowden cable and lock in Not possible in combination with order	the control cabinet door	ithdrawable circuit breakers in	
Made by CES			R81
Made by PROFALUX			R85
Made by RONIS			R86
Seals			
Door sealing frame for degree of			T40

Further technical specifications

Switching and charging energy store 2230 N	Manual operating mechanism		3WL5	
Maximum force required to operate the hand lever 9 9			31123	
Closing coils	5 5 5 52		~230 N	
Primary operating range	·			
Primary operating range Primary operating range for battery operation 24 30 V D.C., 48 60 V D.C. 0.85 1.1 × U, 0.85 1.1 × U, 0.85 1.26 × U, 0.85	Required Humber of Strokes off the fland level		9	
Primary operating range Primary operating range for battery operation 24 30 V D.C., 48 60 V D.C. 0.85 1.1 × U, 0.85 1.1 × U, 0.85 1.26 × U, 0.85				
Primary operating range	Closing coils		3WL5	
March Marc	Primary operating range			
Primary operating range	Version		For continuous command	5 % ED
Extended operating range for battery operation 24 30 V DC 110 127 V Z D DC 220 250 V DC 220 250 V DC 24 V 30 V 48 V, 60 V, 110 125 V Z 20 250 V DC 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V DC 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V DC 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V DC 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V DC 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V DC 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V DC 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V DC 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V DC 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V DC 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V DC 25 V, 10			(100 % ED)	
110 125 V DC 220 250 V DC 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V 250 W	Primary operating range		$0.85 \dots 1.1 \times U_{\rm s}$	$0.85 \dots 1.1 \times U_{\rm s}$
Rated voltage Rated control supply voltage U ₁ 50/60 Hz AC 110127 V, 208240 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220250 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220250 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220250 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220250 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220250 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220250 V 24 V, 30 V, 48 V, 60 V, 110 125 V, 220250 V 250 W 21 10 V; 250 W 21 10 V; 250 W	Extended operating range for battery operation	24 30 V DC, 48 60 V DC	0.85 1.26 × U _s	0.85 1.26 × U _s
Rated control supply voltage U				
Solido Hz AC		220 250 V DC		
DC				
Closing power	Rated control supply voltage U_s			
Closing power		DC	24 V, 30 V, 48 V, 60 V, 110	. 125 V, 220 250 V
Section Sec	Operation			
SWIS VA	Closing power		40 W/40 VA	
Maximum command duration at 100% U ₂	6 3		0.14//0.1/4	
Make time of the circuit breaker at 10% U,				
Nake time of the circuit breaker at 100% U	-		60 ms	
Smallest permissible DIAZED fuse, gL, slow-response 24 30 V DC 2 A 10 A 48 60 V DC 10 125 V DC/110 127 V AC 1 A 2 A	•	AC/DC	-	
Smallest permissible DIAZED fuse, gL, slow-response 24 30 V DC 2 A 10 A 48 60 V DC 2 A 10 A 110 125 V DC/110 127 V AC 1 A 4 A 220 250 V DC/208 240 V AC 1 A 2 A Miniature circuit breaker with C characteristic 24 30 V DC 2 A 10 A 48 60 V DC 2 A 10 A 4 A 110 125 V DC/110 127 V AC 1 A 4 A 20 250 V DC/208 240 V AC 1 A 2 A Fuse protection of the control circuit at U, for motorized operating mechanism + closing coil Smallest permissible DIAZED fuse, gL, slow-response 24 30 V DC 6 A 10 A 48 60 V DC 6 A 10 A 10 A 110 125 V DC/110 127 V AC 2 A 4 A 220 250 V DC/208 240 V AC 2 A 2 A Ad No DC 6 A 10 A 48 60 V DC 6 A 10 A 110 125 V DC/110 127 V AC 2 A 2 A A L 24 V DC, 48 V DC 0 A 2 A 60 V DC, 110 V DC 2 A 2 A	,		100 ms	50 ms
48 60 V DC	Fuse protection of the control circuit at U_s for closing of	oil		
110 125 V DC/110 127 V AC	Smallest permissible DIAZED fuse, gL, slow-response	24 30 V DC	2 A	10 A
220 250 V DC/208 240 V AC		48 60 V DC	2 A	10 A
Miniature circuit breaker with C characteristic 24 30 V DC 2 A 10 A 48 60 V DC 110 125 V DC/110 127 V AC 1 A 4 A 220 250 V DC/208 240 V AC 1 A 2 A		110 125 V DC/110 127 V AC	1 A	4 A
48 60 V DC		220 250 V DC/208 240 V AC	1 A	2 A
110 125 V DC/110 127 V AC	Miniature circuit breaker with C characteristic	24 30 V DC	2 A	10 A
220 250 V DC/208 240 V AC		48 60 V DC	2 A	10 A
Smallest permissible DIAZED fuse, gL, slow-response 24 30 V DC		110 125 V DC/110 127 V AC	1 A	4 A
Smallest permissible DIAZED fuse, gL, slow-response 24 30 V DC 6 A 10 A 48 60 V DC 110 125 V DC/110 127 V AC 2 A 4 A 220 250 V DC/208 240 V AC 2 A 2 A Miniature circuit breaker with C characteristic 24 30 V DC 6 A 10 A 48 60 V DC 6 A 10 A 110 125 V DC/110 127 V AC 2 A 4 A 220 250 V DC/208 240 V AC 2 A 2 A Motor Primary operating range Primary operating range Primary operating range 0.85 1.1 × U _s Extended operating range for battery operation At 24 V DC, 48 V DC 0.7 1.26 × U _s 60 V DC, 110 V DC 220 V DC Operation ACIDC 135 VA/135 W Time required to charge the spring energy store at 1 × U _s Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic (for different rated control supply voltages) At U _s = 24 30 V 6 A At U _s = 110 127 V AC At		220 250 V DC/208 240 V AC	1 A	2 A
48 60 V DC	Fuse protection of the control circuit at U_s for motorize	ed operating mechanism + closing coil		
110 125 V DC/110 127 V AC 2 A 4 A	Smallest permissible DIAZED fuse, gL, slow-response	24 30 V DC	6 A	10 A
Act Department Departme		48 60 V DC	6 A	10 A
Miniature circuit breaker with C characteristic 24 30 V DC 6 A 10 A 48 60 V DC 6 A 10 A 110 125 V DC/110 127 V AC 2 A 4 A 220 250 V DC/208 240 V AC 2 A 2 A Motor Primary operating range Primary operating range for battery operation At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC 0.7 1.26 × U _s Operation Power consumption of motor AC/DC 135 VA/135 W Time required to charge the spring energy store at 1 × U _s Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/a automatic circuit breaker with C characteristic (for different rated control supply voltages) At U _s = 24 30 V 6 A At U _s = 48 60 V A A A At U _s = 110 125 V DC/ 110 127 V AC 2 A At U _s = 220 250 V DC/ 2 A		110 125 V DC/110 127 V AC	2 A	4 A
		220 250 V DC/208 240 V AC	2 A	2 A
Motor Motor SWL5 Primary operating range Primary operating range Primary operating range Extended operating range for battery operation At 24 V DC, 48 V DC 60 V DC , 110 V DC 220 V DC Operation Power consumption of motor AC/DC AC/DC 135 VA/135 W Time required to charge the spring energy store at 1 × U_s Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic (for different rated control supply voltages) At $U_s = 48 \dots 60 \text{ V}$ At $U_s = 48 \dots 60 \text{ V}$ At $U_s = 220 \dots 250 \text{ V DC}$ At $U_s = 220 \dots 250 \text{ V DC}$ At $U_s = 220 \dots 250 \text{ V DC}$ At $U_s = 220 \dots 250 \text{ V DC}$	Miniature circuit breaker with C characteristic	24 30 V DC	6 A	10 A
Motor Primary operating range Primary operating range Extended operating range for battery operation At 24 V DC, 48 V DC 60 V DC , 110 V DC 220 V DC Operation Power consumption of motor Time required to charge the spring energy store at 1 × U_s Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/automatic circuit breaker with C characteristic (for different rated control supply voltages) At $U_s = 24 \dots 30 \text{ V}$ At $U_s = 24 \dots 30 \text{ V}$ At $U_s = 220 \dots 250 \text{ V DC}$ 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2		48 60 V DC	6 A	10 A
Motor Primary operating range Primary operating range Extended operating range for battery operation At 24 V DC, 48 V DC 60 V DC , 110 V DC 220 V DC Operation Power consumption of motor Time required to charge the spring energy store at 1 × U_s Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/automatic circuit breaker with C characteristic (for different rated control supply voltages) At $U_s = 24$ 30 V At $U_s = 48$ 60 V At $U_s = 220$ 250 V DC/ At $U_s = 220$ 250 V DC/ 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2		110 125 V DC/110 127 V AC	2 A	4 A
Motor3WL5Primary operating range0.85 1.1 × U_s Extended operating range for battery operationAt 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC0.7 1.26 × U_s OperationPower consumption of motorAC/DC135 VA/135 WTime required to charge the spring energy store at 1 × U_s ≤10 sShort-circuit protectionSmallest permissible DIAZED fuse (operational class gL)/automatic circuit breaker with C characteristic (for different rated control supply voltages)At $U_s = 24$ 30 V 6 AAt $U_s = 48$ 60 V 6 AAt $U_s = 48$ 60 V 6 AAt $U_s = 22$ 250 V DC/ 10 127 V ACAt $U_s = 22$ 250 V DC/ 2 A		220 250 V DC/208 240 V AC	2 A	2 A
Primary operating range Primary operating range Extended operating range for battery operation At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC Operation Power consumption of motor AC/DC Time required to charge the spring energy store at 1 × U_s Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic (for different rated control supply voltages) At $U_s = 24 \dots 30 \text{ V}$ At $U_s = 48 \dots 60 \text{ V}$ At $U_s = 110 \dots 125 \text{ V DC}$ $110 \dots 127 \text{ V AC}$ At $U_s = 220 \dots 250 \text{ V DC}$ 2 A				
Primary operating range Primary operating range Extended operating range for battery operation At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC Operation Power consumption of motor AC/DC Time required to charge the spring energy store at 1 × U_s Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic (for different rated control supply voltages) At $U_s = 24 \dots 30 \text{ V}$ At $U_s = 48 \dots 60 \text{ V}$ At $U_s = 110 \dots 125 \text{ V DC}$ $110 \dots 127 \text{ V AC}$ At $U_s = 220 \dots 250 \text{ V DC}$ 2 A	Motor		214/I E	
Primary operating range $ 0.85 \dots 1.1 \times U_s $ Extended operating range for battery operation $ At \ 24 \ V \ DC, \ 48 \ V \ DC \\ 60 \ V \ DC, \ 110 \ V \ DC \\ 220 \ V \ DC $ $ 0.7 \dots 1.26 \times U_s $ Operation $ AC/DC $ Time required to charge the spring energy store at $1 \times U_s$ $ \le 10 \ s$ Short-circuit protection $ Smallest \ permissible \ DIAZED \ fuse \ (operational \ class \ gL)/ \ automatic \ circuit \ breaker \ with \ C \ characteristic \ (for \ different \ rated \ control \ supply \ voltages) At \ U_s = 48 \dots 60 \ V At \ U_s = 48 \dots 60 \ V At \ U_s = 110 \dots 125 \ V \ DC/ \ 110 \dots 127 \ V \ AC At \ U_s = 220 \dots 250 \ V \ DC/ \ 2 \ A$			3 WLD	
Extended operating range for battery operation At 24 V DC, 48 V DC 60 V DC , 110 V DC 220 V DC Operation Power consumption of motor AC/DC Time required to charge the spring energy store at $1 \times U_s$ Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic (for different rated control supply voltages) At $U_s = 48 \dots 60 \text{ V}$ At $U_s = 48 \dots 60 \text{ V}$ At $U_s = 110 \dots 125 \text{ V DC}$ $135 \text{ VA}/135 \text{ W}$ $\leq 10 \text{ s}$ At $U_s = 20 \dots 250 \text{ V DC}$ 2 A		_	0.0F 1.1	
		A+ 24 V DC 48 V DC		
	Extended operating range for pattery operation		0.7 1.26 × U _s	
Operation Power consumption of motor AC/DC 135 VA/135 W Time required to charge the spring energy store at $1 \times U_s$ ≤10 s Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic (for different rated control supply voltages) At $U_s = 24 \dots 30 \text{ V}$ 6 A At $U_s = 48 \dots 60 \text{ V}$ 6 A At $U_s = 110 \dots 125 \text{ V DC/}$ 2 A 110 127 V AC At $U_s = 220 \dots 250 \text{ V DC/}$ 2 A		•		
Power consumption of motor AC/DC 135 VA/135 W Time required to charge the spring energy store at $1 \times U_s$ $\leq 10 \text{ s}$ Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ At $U_s = 24 \dots 30 \text{ V}$ 6 A automatic circuit breaker with C characteristic (for different rated control supply voltages) At $U_s = 48 \dots 60 \text{ V}$ 6 A $At U_s = 110 \dots 125 \text{ V DC}/ 2 \text{ A}$ $At U_s = 220 \dots 250 \text{ V DC}/ 2 \text{ A}$	Operation			
Time required to charge the spring energy store at $1 \times U_s$ $\leq 10 \text{ s}$ Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic (for different rated control supply voltages) At $U_s = 24 \dots 30 \text{ V}$ 6 A At $U_s = 48 \dots 60 \text{ V}$ 6 A At $U_s = 110 \dots 125 \text{ V DC}$ 2 A 110 127 V AC At $U_s = 220 \dots 250 \text{ V DC}$ 2 A		AC/DC	135 VA/135 W	
Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic (for different rated control supply voltages) At $U_s = 24 30 \text{ V}$ 6 A At $U_s = 48 60 \text{ V}$ 6 A At $U_s = 110 125 \text{ V DC}$ 2 A 110 127 V AC At $U_s = 220 250 \text{ V DC}$ 2 A	·			
Smallest permissible DIAZED fuse (operational class gL)/ At $U_s = 24 30 \text{ V}$ 6 A automatic circuit breaker with C characteristic (for different rated control supply voltages) At $U_s = 48 60 \text{ V}$ 6 A $At U_s = 110 125 \text{ V DC}/$ 2 A $110 127 \text{ V AC}$ At $U_s = 220 250 \text{ V DC}/$ 2 A				
automatic circuit breaker with C characteristic (for different rated control supply voltages) At $U_s = 48 60 \text{ V}$ At $U_s = 110 125 \text{ V DC}$ $110 127 \text{ V AC}$ At $U_s = 220 250 \text{ V DC}$ 2 A		At U. = 24 30 V	6 A	
(for different rated control supply voltages) At $U_s = 110 \dots 125 \text{ V DC}$ $110 \dots 127 \text{ V AC}$ At $U_s = 220 \dots 250 \text{ V DC}$ 2 A				
$ALO_s = 110 123 \text{ V BC}$ $110 127 \text{ V AC}$ $At U_s = 220 250 \text{ V DC}$ 2 A				
At $U_s = 220 250 \text{ V DC}$ 2 A			2 A	
			2 A	

Signals of the electronic trip unit		3WL5			
Signals of the electronic trip unit					
Measuring accuracy of the electronic trip unit		Protective functions acc. to EN 60947; current indication ≤10%; measurement function for base quantities ≤1%; measurement function for derived quantities ≤4%			
Undervoltage releases UVR (F3) and U	VR (F4)	3WL5			
Primary operating range					
Response values	Pickup	\geq 0.85 × U_s (circuit breaker can be closed)			
	Dropout	$0.35 \dots 0.7 \times U_s$ (circuit breaker is tripped)			
Primary operating range		0.85 1.1 × U _s			
Extended operating range for battery operation	At 24 V DC, 30 V DC, 48 V DC, 110 V DC, 220 V DC	0.85 1.26 × U _s			
Rated voltage					
Rated control supply voltage U _s	Instantaneous 50/60 Hz AC	110 127 V, 208 240 V, 380 415 V			
	Instantaneous DC	24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V			
	Delayed 50/60 Hz AC	110 127 V, 208 240 V, 380 415 V			
	Delayed DC	48 V, 110 125 V, 220 250 V			
Operation					
Power consumption (pickup/uninterrupted duty)	AC	20/5 VA			
	DC	20/5 W			
Opening time of the circuit breaker					
Version UVR (F3)	Instantaneous	≤80 ms			
	With delay	200 ms			
Version UVR-t _d (F8)	With delay, $t_d = 0.2$ to 3.2 s	0.2 3.2 s			
	Reset through additional NC contact – direct tripping	≤100 ms			
Short-circuit protection					
Smallest permissible DIAZED fuse (operational class gL)/ miniature circuit breaker with C characteristic		1 A TDz (slow)/1 A			

System overview, page 1/16

Further technical specifications

Shunt trip (ST) (F1, F2)		3WL5		
Primary operating range				
Version		For continuous command (100% OP), locks out on momentary -contact commands	5% OP	With spring energ store consisting o shunt trip and capacitor trip devi
Primary operating range		0.85 1.1 × U _s	$0.85 \dots 1.1 \times U_{\rm s}$	0.85 1.1 × U _s
Extended operating range for battery operation		0.85 1.26 × U _s	0.85 1.26 × U	_
Response values	Pickup	$>0.7 \times U_{\rm s}$ (circuit breaker is tripped)	$>0.7 \times U_{\rm s}$ (circuit breaker i tripped)	_ S
Rated operational voltage	50/50/1	440 4071/ 000	24014	2221
Rated control supply voltage $U_{ m s}$	50/60 Hz AC DC	110 127 V, 208 24 30 V, 48 60 220 250 V		230 V 220 V
Operation				
Closing power DC	AC/DC	40 W/40 VA	≤ 60 V: 200 W ≥ 110 V: 250 W	1 VA/1 W
Continuous power	AC/DC	8 W/8 VA	-	-
Minimum command duration at 100% $U_{ m s}$		60 ms	60 ms	-
Maximum command duration at 100% U _s		-	2000 ms	-
Opening time of the circuit breaker at 100% $U_{\rm s}$		80 ms	50 ms	80 ms
Storage time at <i>U_s</i> /Recharging time at <i>U_s</i>		-	-	max. 5 min/min. !
Fuse protection of the control circuit at $U_{ m s}$ for shunt tri	p			
Smallest permissible DIAZED fuse, gL, slow-response	24 30 V DC	2 A	10 A	-
	48 60 V DC	2 A	10 A	-
	110 125 V DC/110 127 V AC	1 A	4 A	-
	220 250 V DC/208 240 V AC	1 A	2 A	_
Miniature circuit breaker with C characteristic	24 30 V DC	2 A	10 A	_
	48 60 V DC	2 A	10 A	_
	110 125 V DC/110 127 V AC	1 A	4 A	_
	220 250 V DC/208 240 V AC	1 A	2 A	_
Remote reset magnet for mechanical t	ripped indicator (F7)	3WL5		
Primary operating range				
Primary operating range		0.85 1.1 × U _s		
Extended operating range for battery operation	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC	0.7 1.26 × U _s		
Operation				
Power consumption	AC/DC	60 VA/60 W		
Min. command duration at $U_{ m s}$ for the remote reset magne	et	60 ms		
Short-circuit protection				
Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic		2 A TDz (slow)/2 A 1 A TDz (slow)/1 A		
Contact position-driven auxiliary switc	hes (S1, S2, S3, S4, S7, S8)	3WL5		
Rated voltage				
Rated insulation voltage <i>U</i> _i	AC/DC	500 V		
Rated operational voltage U _e	AC/DC	500 V		
Rated impulse withstand voltage $U_{\rm imp}$		4 kV		
Contact reliability		From 1 mA at 5 V I	OC .	
Breaking capacity				
Alternating current 50/60 Hz	Rated operational voltage U _e	24 230 V	380 V	, 400 V
•	Rated operational current I _e /AC-12	10 A	10 A	
	Rated operational current I _e /AC-15	4 A	3 A	
Direct current	Rated operational voltage U_e	24 V 48		220 V
	Rated operational current I _e /DC-12	10 A 8 A		1 A
	Rated operational current I _e /DC-13	8 A 4 A		0.4 A
Short-circuit protection	nated operational current lende-13	37.	1.2 /	U. T /\
argest permissible DIAZED fuse (operational class gL)		10 A TDz, 10 A Dz		
Largest permissible bildzeb ruse (operational class gL) Largest permissible miniature circuit breaker with C chara	ctaristic	10 A 102, 10 A 02		
Largest permissible miniature circuit breaker with C Chara	CICIISHC	10 /		

Ready-to-close signaling switches ((acc. to DIN VDE 0630)	(520)		
Breaking capacity		3WL5	
Alternating current 50/60 Hz	Rated operational voltage <i>U</i> _e	250 V	
Atternating current 50/00 Hz	Rated operational current I _a	8 A	
Direct current	Rated operational voltage U_e	125 V	250 V
Direct current	Rated operational current I_e	0.4 A	0.2 A
	Contact reliability	From 1 mA at 5 V DC	0.2 //
Short-circuit protection	Contact renability	TTOM T HINTEE'S V BC	
Largest permissible DIAZED fuse (operational class of	gL)	2 A Dz (quick)	
Tripped signaling switches (S24) ar For auxiliary releases (S22, S23) (ac		3WL5	
Breaking capacity			
Alternating current 50/60 Hz	Rated operational voltage $U_{\rm e}$	250 V	
	Rated operational current I _e /AC-12	8 A	
Direct current	Rated operational voltage $U_{\rm e}$	24 V 125 V	250 V
	Rated operational current I _e /DC-12	6 A 0.4 A	0.2 A
	Contact reliability	From 1 mA at 5 V DC	
Short-circuit protection			
Largest permissible DIAZED fuse (operational class o	gL)	6 A Dz (quick)	
		Until manual or electrical r	emote reset (option)
Signal duration after tripping	de frame	Until manual or electrical r	emote reset (option)
Signal duration after tripping Position signaling switches on guid	de frame		emote reset (option)
Signal duration after tripping Position signaling switches on guid Type of contacts	de frame "Circuit breaker in connected position"		emote reset (option) 1 CO
Signal duration after tripping Position signaling switches on guid Type of contacts		3WL5	
Signal duration after tripping Position signaling switches on guid Type of contacts	"Circuit breaker in connected position"	3 CO or	1 CO
Signal duration after tripping Position signaling switches on guic Type of contacts Message	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected	3 CO or 2 CO or	1 CO 1 CO
Signal duration after tripping Position signaling switches on guice Type of contacts Message Contact reliability	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected	3 CO or 2 CO or 1 CO or	1 CO 1 CO
Signal duration after tripping Position signaling switches on guid Type of contacts Message Contact reliability Rated operational voltage	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected	3 CO or 2 CO or 1 CO or	1 CO 1 CO
Signal duration after tripping Position signaling switches on guid Type of contacts Message Contact reliability Rated operational voltage	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position"	3 CO or 2 CO or 1 CO or From 1 mA at 5 V DC	1 CO 1 CO
Signal duration after tripping Position signaling switches on guid Type of contacts Message Contact reliability Rated operational voltage Rated operational voltage U_i Rated operational voltage U_e	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position"	3 CO or 2 CO or 1 CO or From 1 mA at 5 V DC	1 CO 1 CO
Position signaling switches on guid Type of contacts Message Contact reliability Rated operational voltage U_i Rated operational voltage U_i	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position"	3 CO or 2 CO or 1 CO or From 1 mA at 5 V DC	1 CO 1 CO
Position signaling switches on guid Type of contacts Message Contact reliability Rated operational voltage Rated insulation voltage $U_{\rm e}$ Rated impulse withstand voltage $U_{\rm imp}$ Breaking capacity	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position"	3WL5 3 CO or 2 CO or 1 CO or From 1 mA at 5 V DC 440 V 250 V 250 V 4 kV	1 CO 1 CO 1 CO
Position signaling switches on guid Type of contacts Message Contact reliability Rated operational voltage Rated insulation voltage $U_{\rm i}$ Rated impulse withstand voltage $U_{\rm imp}$ Breaking capacity	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position" 50/60 Hz AC DC	3 CO or 2 CO or 1 CO or 1 CO or 5 CO Or 2 CO Or 1 CO Or 5 CO Or 1 CO Or 5 CO OR 1 CO O	1 CO 1 CO 1 CO 1 CO
Position signaling switches on guid Position signal Position State of Stat	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position" 50/60 Hz AC	3 CO or 2 CO or 1 CO or 5 CO Or 2 CO Or 1 CO Or 5 CO Or 1 CO Or 5 CO OR 1 CO O	1 CO 1 CO 1 CO 1 CO
Position signaling switches on guid Type of contacts Message Contact reliability Rated operational voltage Rated insulation voltage $U_{\rm i}$ Rated impulse withstand voltage $U_{\rm imp}$ Breaking capacity	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position" 50/60 Hz AC DC I _e /AC-12 I _e /AC-15 I _e /DC-12	3 CO or 2 CO or 1 CO or 1 CO or 5 CO Or 2 CO Or 1 CO Or 5 CO Or 1 CO Or 5 CO OR 1 CO O	1 CO 1 CO 1 CO 1 CO
Position signaling switches on guid Type of contacts Message Contact reliability Rated operational voltage Rated insulation voltage $U_{\rm e}$ Rated impulse withstand voltage $U_{\rm imp}$ Breaking capacity	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position" 50/60 Hz AC DC I _e /AC-12 I _e /AC-15 I _e /DC-12 I _e /DC-13	3 CO or 2 CO or 1 CO or 1 CO or 5 CO Or 2 CO Or 1 CO Or 5 CO Or 1 CO Or 5 CO OR 1 CO O	1 CO 1 CO 1 CO 1 CO , 220/240 V 10 A,
Position signaling switches on guid Type of contacts Message Contact reliability Rated operational voltage Rated insulation voltage $U_{\rm e}$ Rated impulse withstand voltage $U_{\rm imp}$ Breaking capacity	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position" 50/60 Hz AC DC I _e /AC-12 I _e /AC-15 I _e /DC-12	3 CO or 2 CO or 1 CO or 1 CO or 5 CO Or 2 CO Or 1 CO Or 5 CO Or 1 CO Or 5 CO OR 1 CO O	1 CO 1 CO 1 CO 220/240 V 10 A, 3 A /240 V 0.2 A
Position signaling switches on guid Position signal Position State of Stat	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position" 50/60 Hz AC DC I _e /AC-12 I _e /AC-15 I _e /DC-12 I _e /DC-13	3 CO or 2 CO or 1 CO or 1 CO or 5 CO Or 2 CO Or 1 CO Or 5 CO Or 1 CO Or 5 CO Or 1 CO Or 5 CO Or 1 CO O	1 CO 1 CO 1 CO 220/240 V 10 A, 3 A /240 V 0.2 A
Fosition signaling switches on guid for the same of contacts of the same of contacts of the same of t	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position" 50/60 Hz AC DC I _e /AC-12 I _e /AC-15 I _e /DC-12 I _e /DC-13 A 300 (AC) R 300 (DC)	3 CO or 2 CO or 1 CO or 1 CO or 5 CO Or 2 CO Or 1 CO Or 5 CO Or 1 CO O	1 CO 1 CO 1 CO 220/240 V 10 A, 3 A /240 V 0.2 A
Tripped signaling switches Signal duration after tripping Position signaling switches on guid Type of contacts Message Contact reliability Rated operational voltage Rated insulation voltage U_i Rated operational voltage U_e Rated impulse withstand voltage U_{imp} Breaking capacity Rated operational current I_e Short-circuit protection Largest permissible DIAZED fuse (operational class of Largest permissible automatic circuit breaker with C	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position" 50/60 Hz AC DC I _e /AC-12 I _e /AC-15 I _e /DC-12 I _e /DC-12 I _e /DC-13 A 300 (AC) R 300 (DC)	3 CO or 2 CO or 1 CO or 1 CO or 5 CO Or 2 CO Or 1 CO Or 5 CO Or 1 CO O	1 CO 1 CO 1 CO 220/240 V 10 A, 3 A /240 V 0.2 A

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Guide frames for AC

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

	3W	/L9	5		5 7	8	9	10	11	12	13	3
ize (SZ)	1				1							
	3				3							
		SZ 1	SZ 2	SZ 3								
ax. rated current	1000 A	-	-	_		1						
	1600 A		-	-		2						
	2000 A	_	-	-		3						
	2500 A	_	•	-		4						
	3000 A	_	•	-		5						
	4000 A	_	-	•		6						
	5000 A	_	-	-		7						
nber of poles	3-pole	-	•	-			А					
	4-pole		-	-			В					
in connection	Front, single hole	-		1)				Α				
	Front, double hole	•	•	■ 1)				В				
	Horizontal		-	•				С				
	Vertical							D				
	Connecting flange		•	■ 1)				Е				

¹⁾ Not available for rated circuit breaker current 5000 A

Options

	3WL9	5 6 2 5	7 8 -	9	10	11	12	13	14	15 A	
								П			
Number of auxiliary	Without					0					
supply connectors	1 connector					1					
	2 connectors					2					
	3 connectors					3					
	4 connectors					4					
Type of auxiliary	Without ²⁾						0				
circuit connections	With screw terminals (SIGUT, s	tandard)					1				
	With screwless terminals (tensi	ion spring)					2				
	and a										
Position signaling switches	Without							0			
switches	1 CO 1 CO 1 CO (connected							1			
	3 CO 2 CO 1 CO (connected	test isolated p	oosition)					2			
Shutters	Without								A		
	With shutter, 2-part, lockable								В		

 $^{^{2)}}$ Can only be selected if the number of auxiliary supply connectors = without

Accessories and spare parts

Accessories for electronic trip units ETU

	ectrome trip dints £10			
Electronic trip units ETU	15B with device holder and optic			
3	For replacement in existing ci		ircuit breaker ID No. when ordering.	
400 qu	Туре	With protective function	Measurement function	Article No.
000	ETU45B (without display)	LSIN(G)	Without	3WL9354-5AA00-0AA1
w z			With measurement function Plus	3WL9354-5AA20-0AA1
Rating plugs				
To the Total Control C	 With the rating plug selected, exceeded. The following appl 	the maximum rated current $I_{n \text{ max}}$ ies: $I_n \leq I_{n \text{ max}}$.	of the circuit breaker must not be	
NSE0_00992b	Size	Rated current I _n		Article No.
	1, 2	250 A		3WL9111-2AA51-0AA0
		315 A		3WL9111-2AA52-0AA0
		400 A		3WL9111-2AA53-0AA0
		500 A		3WL9111-2AA54-0AA0
		630 A		3WL9111-2AA55-0AA0
		800 A		3WL9111-2AA56-0AA0
		1000 A		3WL9111-2AA57-0AA0
	1, 2, 3	1250 A		3WL9111-2AA58-0AA0
		1600 A		3WL9111-2AA61-0AA0
	2, 3	2000 A		3WL9111-2AA62-0AA0
		2500 A		3WL9111-2AA63-0AA0
		3000 A		3WL9111-2AA77-0AA0
		3200 A		3WL9111-2AA64-0AA0
	3	4000 A		3WL9111-2AA65-0AA0
	3	5000 A		3WL9111-2AA66-0AA0
Ground-fault modules		300071		3WE3111 270100 07010
NSE0_01027a	a 1200 A/1 A current transfor	rrent is to be determined using the	nal load of the 3WL circuit breaker is	
	Туре	Accessory for		Article No.
	GFM AT 45B	ETU45B		3WL9111-2AT53-0AA0
Display				
	For ETU	Version		Article No.
1SE0_01609	ETU45B	4-line		3WL9111-1AT81-0AA0
u u u u u u u u u u u u u u u u u u u				
External current transfor	mers for N conductor			
	Version	Size		Article No.
- 190a	For mounting on busbar	1		3WL9111-0AA21-0AA0
		2		3WL9111-0AA22-0AA0
d g		3		3WL9111-0AA23-0AA0
S S S S S S S S S S S S S S S S S S S	For busbar connection	3 1		3WL9111-0AA23-0AA0 3WL9111-0AA31-0AA0
S N S N S N S N S N S N S N S N S N S N	For busbar connection			
NSEQ_00991a	For busbar connection	1		3WL9111-0AA31-0AA0
NSE TO TO THE TOTAL THE TO	For busbar connection	1 2		3WL9111-0AA31-0AA0 3WL9111-0AA32-0AA0
INSEN TO THE PROPERTY OF THE P	Common-mode interference (e.g. in IT networks, caused b	1 2 3 suppressor filters	dB.	3WL9111-0AA31-0AA0 3WL9111-0AA32-0AA0
SN NSEW COLUMN SWEET	Common-mode interference (e.g. in IT networks, caused b	1 2 3 suppressor filters y frequency converters)	dB.	3WL9111-0AA31-0AA0 3WL9111-0AA32-0AA0

Accessories and spare parts

Accessories for electronic trip units ETU

Sealable and lockable covers Article No. Accessory for ETU45B 3WL9111-0AT45-0AA0 Automatic reset of the reclosing lockout Article No.

Remote reset magnets



· For mechanical tripped indicator

Spare part for option K01

- Spare part for options K10 to K13
- Note: Automatic reset of the reclosing lockout 3WL9111-0AK21-0AA0 is also required

Trotal Trate Trate To and To ano Strag To and a Strag Trate To Trate To and a strag Trate To	
Voltage	Article No.
24 30 V DC	3WA9111-0EM42
48 60 V DC	3WA9111-0EM44
120 V AC/125 V DC	3WA9111-0EM45
208 250 V AC/208 250 V DC	3WA9111-0FM46

Retrofittable internal wiring

Use	Male connector	Accessory for	Article No.
Internal wiring of CubicleBUS for connection to terminal X8	Without male connector for retrofitting the communication	ETU45B	3WL9111-0AK30-0AA0
For connection of the external N	With male connector	Not for ETU Release 2	3WL9111-0AK31-0AA0

Locking provisions and interlocks

Interlocking sets for mechanical Open/Close



- Consisting of two transparent covers each for sealing or for attaching padlocks (padlocks not included in scope of supply)
- Cover with 6.35 mm hole (for tool actuation) Lock mount for safety lock for key operation
- Article No. Without safety lock 3WL9111-0BA21-0AA0 Made by CES 3WL9111-0BA22-0AA0 Made by IKON 3WL9111-0BA24-0AA0

provision against unauthorized closing from the operator panel



- The disconnector unit fulfills the requirements for main circuit breakers acc. to EN 60204-1
 Spare part for options S01 to S09

Туре	Scope of supply	Article No.
Assembly kit FORTRESS or CASTELL	Without locks, cylinders or keys	3WL9111-0BA31-0AA0
Made by RONIS	Locks, cylinders and keys included	3WL9111-0BA33-0AA0
Made by KIRK-Key	Without locks, cylinders or keys	3WL9111-0BA34-0AA0
Made by PROFALUX	Locks, cylinders and keys included	3WL9111-0BA35-0AA0
Made by CES	Locks, cylinders and keys included	3WL9111-0BA36-0AA0
Made by IKON	Locks, cylinders and keys included	3WL9111-0BA38-0AA0
Assembly kit for padlocks	Without padlock	3WL9111-0BA41-0AA0

Locking provision against unauthorized closing, for withdrawable circuit breakers



- The disconnector unit fulfills the requirements for main circuit breakers acc. to EN 60204-1
- Consisting of lock in the cabinet door, active in connected position, function is retained when circuit breaker is replaced
- Spare part for option R60, R61, R68

Туре	Scope of supply	Article No.
Made by CES	Locks, cylinders and keys included	3WL9111-0BA51-0AA0
Made by IKON	Locks, cylinders and keys included	3WL9111-0BA53-0AA0
Made by KIRK-Key 1)	Without locks, cylinders or keys	3WL9111-0BA57-0AA0
Made by RONIS	Locks, cylinders and keys included	3WL9111-0BA58-0AA0
Made by PROFALUX	Locks, cylinders and keys included	3WL9111-0BA50-0AA0

¹⁾ Locks, cylinders and keys must be ordered from the manufacturer.

3WL9111-0AK21-0AA0

Locking provisions and interlocks

Locking provisions for charging handle with padlock Scope of supply Article No. Spare part for option S33 Without padlock 3WL9111-0BA71-0AA0 cking provision to prevent movement of the withdrawable circuit breaker Safety lock for mounting onto the circuit breaker • Spare part for option S71, S75, S76 Scope of supply Article No. Made by CES Locks, cylinders and keys included 3WL9111-0BA73-0AA0 Made by IKON Locks, cylinders and keys included 3WL9111-0BA75-0AA0 Made by PROFALUX Locks, cylinders and keys included 3WL9111-0BA76-0AA0 Made by RONIS 3WL9111-0BA77-0AA0 Locks, cylinders and keys included Made by KIRK-Key 1) Without locks, cylinders or keys 3WL9111-0BA80-0AA0 Interlocking systems • 2 of the same keys for 3 circuit breakers Locking provision in OFF position Lock in the operator panel A maximum of 2 circuit breakers can be switched on Article No. Made by CES 3WL9111-0BA43-0AA0 Locking mechanisms to prevent movement of the withdrawable circuit breakers in disconnected position Consisting of Bowden cable and lock in the cabinet door on the circuit breaker Spare part for option R81, R85, R86 Note: Not possible in combination with "Locking mechanism to prevent opening of the cabinet door" (order code "R30") or "Locking mechanism to prevent movement with the cabinet door open" (order code "R50"). Type Made by CES 3WL9111-0BA81-0AA0 Made by IKON 3WL9111-0BA83-0AA0 Made by PROFALUX 3WL9111-0BA85-0AA0 Made by RONIS 3WL9111-0BA86-0AA0 Locking mechanisms to prevent opening of the cabinet door in ON position Fixed-mounted Defeatable



- Note: Not possible in combination with "Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").

Version	Article No.
Spare part for option S30	3WL9111-0BB12-0AA0

Locking mechanisms to prevent opening of the cabinet door

- Guide frames
- Defeatable
 - Note: Not possible in combination with "Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").

Spare part for option R30 3WL9111-0BB13-0AA0	Version	Article No.
	Spare part for option R30	3WL9111-0BB13-0AA0

Locking mechanisms to prevent movement with the cabinet door open

- Note: Not possible in combination with "Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").

version	Article No.
Spare part for option R50	3WL9111-0BB15-0AA0

¹⁾ Locks, cylinders and keys must be ordered from the manufacturer

Accessories and spare parts

Locking provisions and interlocks

Mechanical interlocks				
	• With Bowden cable 2000 mm (one req			
	Туре	When ordered separately	Spare part for	Article No.
	Fixed-mounted circuit breaker	-	Option S55	3WL9111-0BB21-0AA0
NSE	Module for withdrawable circuit breakers with guide frame	-	Option R55	3WL9111-0BB24-0AA0
	Module for guide frame	✓	Option R56	3WL9111-0BB22-0AA0
	Module for withdrawable circuit breaker	✓	Option R57	3WL9111-0BB23-0AA0
	Adapter for size 3 withdrawable circuit breaker	✓	-	3WL9111-0BB30-0AA0
Couplings on the circuit breaker (with ring) for mutual interlocking				
£ 75.	Can be used in all circuit breakers			
				Article No.
4 3 0				3WL9112-8AH47-0AA0
Bowden cables				
	Length			Article No.
	2000 mm			3WL9111-0BB45-0AA0
	3000 mm			3WL9111-0BB46-0AA0
	4500 mm			3WL9111-0BB47-0AA0

Test devices

Manual tester, Relea	ase 2 for electronic trip units ETU25B to ETU45B	
	 For testing the Electronic Trip Unit functions of all 3WL ETUs (Release 1 and Release 2) 	
100 mm m		Article No.
NY distriction		3WL9111-0AT32-0AA0
Function test unit		
	 For testing the tripping characteristics for electronic trip units ETU25B to ETU45B (Release 1 and Release 2) 	
		Article No.
		3WL9111-0AT44-0AA0
TD400 Kit IEC 1)		
	 Commissioning/Service Tool for UL 3WL5 (ETU release 1) With adapter, cable and case 	
		Article No.
		3VW9011-0AT41
TD400 adapter (spar	re part)	
	Version	Article No.
	for 3VA	3VW9011-0AT43
	for 3WL ETU release 1	3VW9011-0AT44

Storage devices

3				
Capacitor trip device				
	For shunt tripsStorage time 5 minAlso suitable for 3VLNote: Rated control	. circuit breakers supply voltage must match the rated con	trol supply voltage of the shunt trips.	
	Rated control supply v	oltage/rated operational voltage		Article No.
	50/60 Hz AC	DC		
	220 240 V	220 250 V		3WI 9111-0RA14-0AA0

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

Indicators and control elements Ready-to-close signaling switches (S20) Spare part for option C22 1 NO 3WL9111-0AH01-0AA0 Signaling switch (S22 or S23) Not possible with communication port, order code "F02", "F12" or "F35" Auxiliary supply connector X7 required for circuit breakers or guide frames. If this is not already available, please order additionally Spare part for options C26 to C27 1st or 2nd auxiliary release 3WL9111-0AH02-0AA0 1st tripped signaling switch (S24) Not possible with communication port, order code "F02", "F12" or "F35" Auxiliary supply connector X7 required for circuit breakers or guide frames. If this is not already available, please order additionally Article No. 1 CO 3WL9111-0AH14-0AA0 Spare part for option K07 2nd tripped signaling switch (S25) Not possible with communication port, order code "F02", "F12" or "F35" Auxiliary supply connector X7 required for circuit breakers or guide frames. If this is not already available, please order additionally Can only be used in combination with 1st tripped signaling switch Article No. 3WL9111-0AH17-0AA0 Spare part for option K06 1 NO Operating cycle counters • Only in conjunction with motorized operating mechanism Article No. Version 3WL9111-0AH07-0AA0 Mechanical Spare part for option C01 Spring charge signaling switch Not possible with communication port, order code "F02", "F12" or "F35". Auxiliary supply connector X7 required for circuit breakers or guide frames. If this is not already available, please order additionally Article No. Spare part for option C20 1 NO 3WL9111-0AH08-0AA0 Position signaling switches for guide frames Article No. Spare part for options R15 to R16 1st block (3 CO) 3WL9111-0AH11-0AA0 2nd block (6 CO) 3WL9111-0AH12-0AA0 Local electric close (S10) for operator panel Not possible with communication port, order code "F02", "F12" or "F35" Not possible with motor shutdown switch Button + wiring (Auxiliary supply connector X7 required for circuit breakers or guide frames. If this is not already available, please order additionally) Note: Possible only for circuit breakers with closing coil. Article No. Spare part for options C11 to C12 With sealing cap C11 3WL9111-0AJ02-0AA0 With CES assembly kit C12 3WL9111-0AJ03-0AA0 With IKON assembly kit 3WL9111-0AJ05-0AA0 Motor shutdown switch (S12) Mounting onto operator panel · Not possible with local electric close

Spare part for option S25

Article No.

3WL9111-0AJ06-0AA0

Accessories and spare parts

Indicators and control elements

EMERGENCY-OFF pushbuttons



•	Mushroom	pushbutton	instead	of the	mechanical	OFF	pushbutton

Spare part for option S24

3WL9111-0BA72-0AA0

Auxiliary conductor connections

Male connectors for circuit breakers ①



Article No. 3WA9111-0AB01

• Male connector must be ordered separately

1000 V 3WA9111-0AB02

Auxiliary supply connection for circuit breakers or guide frames 2

Article No. Screw connection (SIGUT) 3WA9111-0AB03

Screwless connection (tension spring) 3WL9111-0AB04-0AA0

Coding kits 3



Article No.

3WA9111-0AB07 For fixed-mounted X5 to X8

Sliding contact modules for guide frames 4



Article No. 3WA9111-0AB08

sliding contact modules for guide frames 🥞



Screw connection (SIGUT)

Article No. 3WL9111-0AB18-0AA0

Blanking blocks for circuit breakers

3WA9111-0AB12

For a complete auxiliary current connection you must order:

Fixed-mounted version: Withdrawable version:

Auxiliary releases

Closing coils/shunt trips						
	Version	Voltage	Article No.			
	100% OP	24 30 V DC	3WA9111-0AD02			
		48 60 V DC	3WA9111-0AD04			
		110 125 V DC/110 127 V AC	3WA9111-0AD05			
N2E0 01000		220 250 V DC/208 240 V AC	3WA9111-0AD06			
Closing coil (CC)						
49	• For momentary duty, with cut-o	ff switch S15				
The state of the s	Version	Voltage	Article No.			
	5 % OP	24 30 V DC	3WA9111-0AD12			
	Switching time 50 ms	48 60 V DC	3WA9111-0AD14			
		110 125 V DC/110 127 V AC	3WA9111-0AD15			
		220 250 V DC/208 240 V AC	3WA9111-0AD16			
Shunt trip (ST)						
	• For momentary duty, with cut-o	ff switch S14				
	Version	Voltage	Article No.			
	5 % OP Switching time 50 ms	24 30 V DC	3WA9111-0AD22			
		48 60 V DC	3WA9111-0AD24			
		110 125 V DC/110 127 V AC	3WA9111-0AD25			
		220 250 V DC/208 240 V AC	3WA9111-0AD26			
Undervoltage release						
	Version	Voltage	Article No.			
Ę Į į	Instantaneous	24 V DC	3WA9111-0AE02			
		30 V DC	3WL9111-0AE02-0AA0			
E CONTRACT Z		48 V DC	3WA9111-0AE04			
·		60 V DC	3WL9111-0AE07-0AA0			
		110 125 V DC/110 127 V AC	3WA9111-0AE05			
		220 250 V DC/208 240 V AC	3WA9111-0AE06			
002	Delayed	48 V DC	3WA9111-0AE13			
		110 125 V DC/110 127 V AC	3WA9111-0AE15			
		220 250 V DC/208 240 V AC	3WA9111-0AE16			

Operating mechanism

Motorized operating m	echanisms	
NSEQ. DROSSA	 Auxiliary supply connector X5 required for circuit breakers or guide frames. If this is not already available, please order additionally 	
	Voltage	Article No.
	24 30 V DC	3WA9111-0AF02
	48 60 V DC	3WA9111-0AF04
	110 125 V DC/110 127 V AC	3WA9111-0AF05
	220 250 V DC/208 240 V AC	3WA9111-0AF06

Auxiliary contacts

•		
Auxiliary switch bloc	ks	
NSE0_01004	Contacts	Article No.
	2 NO + 2 NC	3WL9111-0AG01-0AA0
	2 NO	3WL9111-0AG02-0AA0
	1 NO + 1 NC	3WL9111-0AG03-0AA0

Accessories and spare parts

Door sealing frames, hoods, shutters

Door sealing frames					
	Version	Article No.			
	Spare part for option T40	3WL9111-0AP01-0AA0			
Protective covers IP55					
882010	 Cannot be used in conjunction v Hood removable and can be open 		mes		
NSEO					Article No.
					3WL9111-0AP03-0AA0
Shutters					
	Version	Number of poles	Size	Breaking capacity	
	Spare part for option R21	3-pole	1	N, S, H	3WL9111-0AP04-0AA0
			2	N, S, H	3WL9111-0AP06-0AA0
			3	Н, С	3WL9111-0AP07-0AA0
		4-pole	1	N, S, H	3WL9111-0AP08-0AA0
			2	N, S, H	3WL9111-0AP11-0AA0
			3	H, C	3WL9111-0AP12-0AA0

Coding for withdrawable version

Coding for withdrawable version					
	By customer, for 36 coding variants				
SEO_01009	Size	Article No.			
	1 and 2	3WL9111-0AR12-0AA0			
G Z	3	3WL9111-0AR13-0AA0			

Support brackets

Support brackets		
NSB, 0922	 For mounting fixed-mounted circuit breakers on vertical plane Only for sizes 1 and 2 (1 set = 2 units) 	
		Article No.
		3WI 9111-0RB50-0AA0

CubicleBUS modules

- Each CubicleBUS module is supplied with a 0.2 m pre-assembled cable to connect the modules with each other. A longer pre-assembled cable is required for connection to the circuit breaker.
- All communication components, **Cubicle**BUS modules and measurement functions are available for the electronic trip units ETU45B.

Modules of the CubicleBUS					
TITA 8	Туре	Article No.			
VSEO_010	Digital output module with rotary	3WL9111-1AT26-0AA0			
	Digital output module, configurab	le, relay outputs	3WL9111-1AT20-0AA0		
	Digital input module		3WL9111-1AT27-0AA0		
	Analog output module		3WL9111-1AT23-0AA0		
	ZSI module		3WL9111-1AT21-0AA0		
Preassembled cables for	CubicleBUS modules				
	For connection to 3WL	Length	Article No.		
	With COM15/COM16/COM35	0.2 m	3WL9111-0BC04-0AA0		
		_1 m	3WL9111-0BC02-0AA0		
		2 m	3WL9111-0BC03-0AA0		
	Without COM15/COM16/COM35	2 m	3WL9111-0BC05-0AA0		

Retrofitting and spare parts

• All communication components, **Cubicle**BUS modules and measurement functions are available for the electronic trip units ETU45B.

COM35 PROFINET IO / M	lodbus TCP modules	
AMMININ	Version	Article No.
THE RESIDENCE OF THE PARTY OF T	For electronic trip units ETU45B	3WL9111-1AT66-0AA0
COM15 PROFIBUS modu	ıle	
	Version	Article No.
	For electronic trip units ETU45B	3WL9111-1AT65-0AA0
COM16 Modbus module	2	
	Version	Article No.
	For electronic trip units ETU45B	3WL9111-1AT15-0AA0
Breaker status sensor (E	BSS)	
	Version	Article No.
	For electronic trip units ETU45B	3WL9111-1AT16-0AA0
Measurement function	Plus	
	A measuring accuracy of 3% is achieved if retrofitted.	
	Version	Article No.
	For electronic trip units ETU45B external voltage transformer required, e.g. GE Grid Solutions Model 468.	3WL9111-1AT03-0AA0

Main conductor connections, fixed-mounted versions (essential accessory)

Front-accessible main connections, single hole at top				
1000 1000	Size	Rated current I _n	Article No.	
	1	≤1000 A	3WL9111-0AL01-0AA0	
9		1250 1600 A	3WL9111-0AL02-0AA0	
	2	≤2000 A	3WL9111-0AL03-0AA0	
SN S		≤2500 A	3WL9111-0AL04-0AA0	
		≤3200 A	3WL9111-0AL05-0AA0	
	3	≤4000 A	3WL9111-0AL06-0AA0	
Front-accessible main co	nnections, single hole at bottom			
0000 10000	Size	Rated current I _n	Article No.	
	1	≤1000 A	3WL9111-0AL51-0AA0	
00		1250 1600 A	3WL9111-0AL52-0AA0	
	2	≤2000 A	3WL9111-0AL53-0AA0	
- S Z		≤2500 A	3WL9111-0AL54-0AA0	
		≤3200 A	3WL9111-0AL55-0AA0	
	3	≤4000 A	3WL9111-0AL56-0AA0	
Front-accessible main co	nnections according to DIN 43673	, double hole at top		
1000 In	Size	Rated current I _n	Article No.	
	1	≤1000 A	3WL9111-0AL07-0AA0	
8		1250 1600 A	3WL9111-0AL08-0AA0	
5	2	≤2000 A	3WL9111-0AL11-0AA0	
N S E		≤2500 A	3WL9111-0AL12-0AA0	
		≤3200 A	3WL9111-0AL13-0AA0	
	3	≤4000 A	3WL9111-0AL14-0AA0	

Accessories and spare parts

Main conductor connections, fixed-mounted versions (essential accessory)

main conductor connections, fixed mounted versions (costendar accessory,						
Front-accessible main connections according to DIN 43673, double hole at bottom						
0000	Size	Rated current I _n	Article No.			
	1	≤1000 A ¹)	3WL9111-0AL57-0AA0			
		1250 1600 A	3WL9111-0AL58-0AA0			
090	2	≤2000 A	3WL9111-0AL61-0AA0			
N S S S S S S S S S S S S S S S S S S S		≤2500 A	3WL9111-0AL62-0AA0			
		≤3200 A	3WL9111-0AL63-0AA0			
	3	≤4000 A	3WL9111-0AL64-0AA0			
Rear vertical main cor	nections					
	Size	Rated current I _n	Article No.			
	1 ¹⁾	≤1600 A	3WL9111-0AM01-0AA0			
	2 2)	≤3200 A	3WL9111-0AM02-0AA0			
	3	≤6300 A	3WL9111-0AM03-0AA0			
N SEO						

¹⁾ In the case of vertical connection size 1 with breaking capacity N and S, up to 1000 A one 3WL9111-0AM01-0AA0 vertical connection is required up to 1600 A or

Main conductor connections, withdrawable versions (essential accessory)

mam comaactor	commeetions, with	idiawabie versions (essential decessor)	
Front-accessible main	connections, single hole	at top or at bottom 1)	
0000	Size	Rated current I _n	Article No.
	1	≤1000 A	3WL9111-0AN01-0AA0
93		1250 1600 A	3WL9111-0AN02-0AA0
	2	≤2000 A	3WL9111-0AN03-0AA0
		≤2500 A	3WL9111-0AN04-0AA0
		≤3200 A	3WL9111-0AN05-0AA0
	3	≤4000 A	3WL9111-0AN06-0AA0
Front-accessible main	connections according to	DIN 43673, double hole at top or at bottom 1)	
0000	Size	Rated current I _n	Article No.
	1	≤1000 A	3WL9111-0AN07-0AA0
4		1250 1600 A	3WL9111-0AN08-0AA0
0000 0000 0000 0000 0000 0000 0000 0000 0000	2	≤2000 A	3WL9111-0AN11-0AA0
		≤2500 A	3WL9111-0AN12-0AA0
		≤3200 A	3WL9111-0AN13-0AA0
	3	≤4000 A	3WL9111-0AN14-0AA0

¹⁾ When using front-accessible main connections (withdrawable circuit breakers) supports are required

with breaking capacity H two 3WL9111-0AM01-0AA0 vertical connections are required.

2) In the case of vertical connection size 2, up to 2500 A one 3WL9111-0AM02-0AA0 vertical connection is required up to 3200 A two 3WL9111-0AM02-0AA0 vertical connections are

Main conductor connections, withdrawable versions (essential accessory)

Supports for front and	d DIN connecting bars		
	Number of poles	Size	Article No.
	3-pole for 3 bars	1	3WL9111-0AN41-0AA0
		2	3WL9111-0AN42-0AA0
		3	3WL9111-0AN43-0AA0
<u> </u>	4-pole for 4 bars	1	3WL9111-0AN44-0AA0
		2	3WL9111-0AN45-0AA0
		3	3WL9111-0AN46-0AA0
Rear vertical main cor	nections		
01015	Size	Rated current I _n	Article No.
5	1	≤1000 A	3WL9111-0AN15-0AA0
		1250 1600 A	3WL9111-0AN16-0AA0
2	2	≤2000 A	3WL9111-0AN17-0AA0
		≤2500 A	3WL9111-0AN18-0AA0
		≤3200 A	3WL9111-0AN21-0AA0
	3	≤5000 A	3WL9111-0AN22-0AA0
Rear horizontal main	connections		
	Size	Rated current I _n	Article No.
	1	≤1000 A	3WL9111-0AN32-0AA0
		1250 1600 A	3WL9111-0AN33-0AA0
	1	≤2000 A	3WL9111-0AN34-0AA0
		≤2500 A	3WL9111-0AN35-0AA0
		≤3200 A	3WL9111-0AN36-0AA0
	3	≤5000 A	3WL9111-0AN37-0AA0
Connecting flange			
	Size	Rated current I _n	Article No.
	1	≤1000 A	3WL9111-0AN24-0AA0
		1250 1600 A	3WL9111-0AN25-0AA0
NSEO_01016	2	≤2000 A	3WL9111-0AN26-0AA0
NSE		≤2500 A	3WL9111-0AN27-0AA0
		≤3200 A	3WL9111-0AN28-0AA0
	3	≤4000 A	3WL9111-0AN31-0AA0

Conversion kit

Conversion Ric					
Conversion kit for converting fixed-mounted circuit breakers into withdrawable circuit breakers					
	Only for AC circuit breakers/norGuide frames and sliding contact				
	Number of poles	Size	Article No.		
	3-pole	1	3WL9111-0BC11-0AA0		
		2	3WL9111-0BC12-0AA0		
	<u></u>	3	3WL9111-0BC13-0AA0		
4-pole	4-pole	1	3WL9111-0BC14-0AA0		
		2	3WL9111-0BC15-0AA0		
		3	3WL9111-0BC16-0AA0		

One system. For all applications

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

Comprehensively certified. Deployable worldwide.

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



Molded Case Circuit Breakers

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A multitude of additional information ...

Information + ordering



All the important things at a glance

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



Your product in detail

The Siemens Industry Online Support (SIOS) provides comprehensive information

www.siemens.com/lowvoltage/product-support

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

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

Use our conversion tool for quick and easy conversion to Siemens products

www.siemens.com/conversion-tool



Siemens YouTube channel

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



Everything you need for your order

Refer to the Industry Mall for an overview of your products

· 3VA molded case circuit breakers, UL/IEC sie.ag/2yPsA2e

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



Configurators

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

www.siemens.com/lowvoltage/3va-ul-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

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SENTRON powerconfig

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

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Your product in detail

The Siemens Industry Online Support (SIOS) provides detailed technical information

www.siemens.com/lowvoltage/product-support

- · Operating instructions
- Characteristic curves
- Certificates

Comprehensive mobile support via the Siemens Industry Online Support app available for download from the **App Store and Play Store**

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

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

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

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

Manuals

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

- Configuration manual
 - 3VA selectivity (109743975)
- Communication manual
 - 3VA molded case circuit breakers with IEC and UL certification (98746267)
- · Equipment manual
- 3VA molded case circuit breakers with UL and IEC certification (109758561)



Face-to-face or online training

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

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



Technical overview - Molded case circuit breakers



The fast way to get you to our online services

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

Molded case circuit breakers for all applications



3VA51 ... 3VA59 molded case circuit breakers

Ideal for standard applications

The 3VA5 molded case circuit breaker is suitable for numerous applications in infrastructure and industrial plants – and this applies worldwide thanks to IEC and UL certification.

Its additional functionality is the perfect complement to the circuit breaker series – and it features a consistent design and wide range of accessories.

Special features

- Compact design
- AC/DC applications
- Universal platform of accessories
- 1, 2, 2 in 3, 3 and 4-pole version
- Also available as a molded case switch and motor circuit protector
- Available in different sizes with rated currents from 1 ... 2000 A

UL certificate

- 3VA5/6 molded case circuit breaker for line protection E364397 (CCN ¹⁾: DIVQ)
- 3VA5/6 motor circuit protector: E482699 (CCN: DKPUZ)
- 3VA5/6 molded case switch: E482701 (CCN: WJAZ)
- Accessories: E354102

¹⁾ CCN = UL Category Code Number



3VA61 ... 3VA69 molded case circuit breakers

Perfect for advanced applications

Whether in industry or infrastructure – the 3VA6 molded case circuit breaker can handle all tasks with ease. It can be easily integrated into higher-level energy management or automation systems.

It reliably signals plant conditions and measured values, helping you to increase plant availability and identify any potential for savings.

Special features

- Very good selective protection response
- AC applications
- Integrated measurement function for current, voltage and energy values
- Connection to a communication system
- Various circuit breaker versions available as "100% rated" (uninterrupted current carrying) and as "current limiting" breaker according to UL 489
- Integrated DAS+ (Dynamic Arc-Flash Sentry) function in accordance with American standard NEC 240.87 to reduce arc flash energy in the switchboard for frame sizes 1200, 1600 and 2000 A (3VA UL Large Frame)
- Available in different sizes with rated currents from 25 ... 2000 A

UL certificate

- 3VA5/6 molded case circuit breaker for line protection E364397 (CCN ¹⁾: DIVO)
- 3VA5/6 motor circuit protector: E482699 (CCN: DKPUZ)
- 3VA5/6 molded case switch: E482701 (CCN: WJAZ)
- Accessories: E354102

¹⁾ CCN = UL Category Code Number

Molded case circuit breakers and accessories

Protective functions	3VA51	3VA52	3VA53	3VA54	3VA55	3VA57 new	3VA58 new	3VA59 new	
Size	125 A	250 A	400 A	600 A	800 A	1200 A	1600 A	2000 A	
Molded case switch (MCS)									
With short-circuit release for intrinsic device protection	•	•	•	•	•	•	•	•	
Thermal-magnetic									
Line protection			•				-		
Protective circuit breaker for motor starter combinations, motor circuit protector (MCP)	•	•	•	•	•	-	-	-	
Electronic									
Line protection	-	-	-	-	-	-	-	-	
Line protection, with display	-	-	-	-	-	-	-	-	
Line protection, with display and measurement function	-	-	-	-	-	-	-	-	
Protective circuit breaker for motor starter combinations, motor circuit protector (MCP)	-	-	-	-	-	-	-	-	

Accessories

Accessories								
Size	125 A	250 A	400 A	600 A	800 A	1200 A	1600 A	2000 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		•	-	-	-	-	-	-
Operating unit with Bowden cable/linkage					-	-	-	-
Motor operator MO 320 (mounted on front)			•		-	-	-	-
Motor operator with SEO520 stored energy operator	-	•	-	-	-	-	-	-
Locking, blocking and interlocking							-	
Communications interface	-	-	-	-	-	-	-	-
EFB300	-	-	-	-	-	-	-	-
MMB300	-	-	-	-	-	-	-	-
Testing and commissioning devices	-	-	-	-	-	-	-	-
Cover frame			•	•	•		•	
Mounting plate for circuit breaker	-	-	-	-	-	-	•	•
Assembly kit for multiple feed-in terminals	-	-	-	-	-	-	-	-

[•] Must be used

[■] Available

⁻ Not available/not present



150 A	250 A	400 A	600 A	800 A	1000 A	1200 A	1600 A	2000 A
					•		•	
	•	•		•	•	•	•	•
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3VA5 molded case circuit breakers up to 2000 A

Technical data

			3	3VA5	1	3	3VA5	1	3	3VA5	1		3VA	52	
Basic data															
Number of poles				1-pole			2-pole			3/4-pole	2	2 in	3-pole.	3/4-pole	
Size		Α		125			125			125			250		
Rated current I _n		Α		15 125	5		15 12	5		15 12	5		40 2	250	
Frequency		Hz		0 400			0 400)		0 400)		0 4	00	
Electrical characteristics according to	UL 489														
Rated operational voltage U _e 50/60 Hz A	AC .	V		347		600`	Y/347 an	d 480	600 \	//347 an	d 480		600		
Electrical characteristics according to	IEC 60947-2														
Rated operational voltage U _e 50/60 Hz A	AC .	V		415			415			690			690		
Rated insulation voltage U _i		V		500			600			800			800		
Rated impulse withstand voltage $U_{\rm imp}$		kV		8			8			8			8		
Breaking capacity (line protection)			S	М	Н	S	М	Н	S	М	Н	М	Н	С	
UL breaker type			SEAS	MEAS	HEAS	SEAS	MEAS	HEAS	SEAS	MEAS	HEAS	MFAS	HFAS	CFAS	
Current Limiting according to UL489			-	-	-	_	_	_	-	_	_	_	-	-	
Short-circuit breaking capacity acc. to	UL 489														
50/60 Hz AC	120 V	kA	65	85	100	-	_	-	-	-	-	-	-	-	
	240 V	kA	-	-	-	65	85	150	65	85	150	85	100	200	
	277 V	kA	25	35	50	-	_	-	-	-	-	-	-	-	
	347 V	kA	14	18	18	-	_	-	-	-	_	-	-	-	
	480 Y/277 V	kA	-	_	-	25	35	65	25	35	65	35	65	100	
	480 V	kA	-	_	_	25	35	65	25	35	65	35	65	100	
	600 Y/347 V	kA	-	_	-	14	18	25	14	18	25	18	25	35	
	600 V	kA	-	_	_	-	_	-	_	_	_	18	25	35	
DC	125 V	kA	14	25	30	14	25	30	-	-	-	-	-	-	
	250 V	kA	-	-	-	50	85	100	50	85	100	50	85	100	
	500 V	kA	-	_	-	-	_	-	50	85	100	50	85	100	
	600 V	kA	-	_	-	-	-	-	50	85	100	50	85	100	
	750 V	kA	-	_	-	-	_	-	-	-	-	50	85	100	
	1000 V	kA	-	-	-	-	-	-	-	-	-	50	85	100	
Short-circuit breaking capacity acc. to															
Rated ultimate short-circuit breaking	240 V	kA	25	36	55	55	85	150	55	85	150	85	100	200	
capacity I _{CU} 50/60 Hz AC ²⁾	415 V	kA	5	5	5	36	55	70	36	55	70	55	70	110 (3P) 85 (4P)	
	690 V	kA	_	_	_	_	_	_	5	7	10	7	10	10	
Rated service short-circuit breaking	240 V	kA	25	36	55	55	85	150	55	85	150	85	100	200	
capacity I _{CS} 50/60 Hz AC ²⁾	415 V	kA	5	5	5	36	55	70	36	55	70	55	70	110 (3P)	
								, ,			, 5		, ,	85 (4P)	
	690 V	kA	-	-	-	-	-	-	5	5	5	7	10	10	
DC 1)	125 V	kA	14	25	30	14	25	30	-	-	-	_	_	-	
	250 V	kA	-	-	-	50	85	100	50	85	100	50	85	100	
	500 V	kA	-	_	-	-	-	-	50	85	100	50	85	100	
	600 V	kA	-	-	-	-	-	-	50	85	100	50	85	100	
	750 V	kA	-	-	-	-	-	-	-	-	-	50	85	100	
	1000 V	kA	-	_	-	-	_	-	-	-	_	25	36	50	
Dimensions															
D	А	mm		25.4			50.8			76.2			105		
	В	mm		140			140			140			185		
NSEO_01165	С	mm		76.5			76.5			76.5			83		
	D	mm		93.4			93.4			93.4			107		
■ Available – Not available/not present							reaking ca					d circuit d	liagrams		

System overview, page 2/20

see FAQ www.siemens.com/lowvoltage/product-support (109779932)

4440



 $_{
m cu}^{2)}\ I_{
m cu}$ = rated ultimate short-circuit breaking capacity, rms value, according to IEC 60947-2. $I_{
m cs}$ = rated service short-circuit breaking capacity, rms value, according to IEC 60947-2.

3VA5 molded case circuit breakers up to 2000 A

Application

						O TO WELL
			3VA51	3VA51	3VA51	3VA52
Basic data						
Number of poles			1-pole	2-pole	3/4-pole	2 in 3-pole, 3/4-pole
Size		Α	125	125	125	250
Rated current I _n		Α	15 125	15 125	15 125	40 250
Frequency		Hz	0 400	0 400	0 400	0 400
3VA5 molded case circuit breakers for li	ine protection					
Service life/endurance (operating cycles	s)					
Mechanical (OPEN-CLOSE cycles)			20000	20000	20000	20000
Electrical for U _e 480 V (UL 489)/415 V (IEC	60947)		8000	8000	8000	8000
Trip units						
FTFM	TM210					
FTAM	TM230		-	-		
ATAM	TM240		-	-		
3VA5 motor circuit protector (protective	e circuit breaker	for motor	r starter combinations)			
Rated current I _n		Α	-	-	15 125	150 200
Breaking capacity acc. to UL 489 without at 480 V 1)	contactor	kA	-	-	65	65/100
Approval acc. to IEC 60947-2 Annex O ICB	}		-	-		
Integrated, instantaneous short-circuit	release for intri	nsic device	e protection			
AM	TM120M		-	-		
3VA5 molded case switch						
Electrical characteristics according to U	L 489					
Rated uninterrupted current I_n at 40 °C ambient temperature for short-circuit	Up to 65 kA at 480 V	Α	-	100	100	150, 250
current rating (SCCR) ²⁾	Up to 100 kA at 480 V	Α	-	-	-	100, 150, 250
Approval acc. to IEC 60947-2 Annex L CBI-	-X		-			
Integrated, instantaneous short-circuit	release for intri	nsic device	e protection			
FM	MCS110		-			
Standards and specifications						
Standards and specifications			UL489/cULus, IEC 60947-2	UL489/cULus, IEC 60947-2	UL489/cULus, IEC 60947-2	UL489/cULus, IEC 60947-2
Direction of power flow and infeed			Top and bottom	Top and bottom	Top and bottom	Top and bottom
Standard connection technology			Without connection technology	Without connection technology	Without connection technology	Without connection technology

[■] Available - Not available/not present

444

¹⁾ Breaking capacity in combinations with contactor (SCCR rating) may differ
²⁾ The breaking capacity (SCCR rating) is the maximum short-circuit current permissible at the location where the MCS is installed in conjunction with a suitable overload protection device













3VA53	3VA54	3VA55	3VA57 new	3VA58 new	3VA59 new
2 in 3-pole, 3/4-pole	2 in 3-pole, 3/4-pole	2 in 3-pole, 3/4-pole	2 in 3-pole, 3-pole	3-pole	3-pole
400	600	800	1200	1600	2000
200 400	450, 500, 600	600, 700, 800	800, 900, 1000, 1200	1400, 1600	1800, 2000
0 400	0 400	0 400	0 400	0 400	0 400
20000	20000	10000	3000	3000	3000
6000	3000	4800	1500	1500	500
-	-	-	-	-	-
•	•	•	•	•	•
	•	-	-	-	-
250	400 500 600	600, 000			
250	400, 500, 600	600, 800	-	-	-
65/100	65/100	65/100	_	_	-
			_	_	-
			-	-	-
400	600	800	1000, 1200	1600	2000
400	600	800	1000, 1200	1600	2000
					_
	_				
UL489/cULus,	UL489/cULus,	UL489/cULus,	UL489/cULus,	UL489/cULus,	UL 489/cULus
IEC 60947-2	IEC 60947-2	IEC 60947-2	IEC 60947-2	IEC 60947-2	
Top and bottom	Top and bottom	Top and bottom	Top and bottom	Top and bottom	Top and bottom
Without connection technology	Without connection technology	Nut keeper kit	Without connection technology	Without connection technology	Without connection technology

System overview, page 2/20

3VA6 molded case circuit breakers up to 2000 A

Technical data



Available — Not available/not present
 I_{cu} = rated ultimate short-circuit breaking capacity, rms value, according to IEC 60947-2.
 I_{cs} = rated service short-circuit breaking capacity, rms value, according to IEC 60947-2.



System overview, page 2/20

3VA6 molded case circuit breakers up to 2000 A

Application





Basic data Savidata Savidat					
Number of poles 3/4-pole 3/4-pole 3/4-pole 5/26				3VA61	3VA62
Size	Basic data				
Rated current In	Number of poles			3/4-pole	3/4-pole
Frequency	Size		А	150	250
Service life/endurance (operating cycles) 25000 25000	Rated current I _n		А	40 150	100, 250
Service Ife/endurance (operating cycles) 25000 25000	Frequency		Hz	50 60	50 60
Mechanical (CLOSE-OPEN cycles) 25000 25000	3VA6 molded case circuit breakers for li	ne protection			
Trip units	Service life/endurance (operating cycles	5)			
Trip units	Mechanical (CLOSE-OPEN cycles)			25000	25000
ETU320	Electrical for U _e 480 V (UL 489)/415 V (IEC	60947)		14000	12000
ETU820 ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	Trip units				
ETU330	LI	ETU320			
ETU830 ETU850 ETU850 ETU850 ETU850 ETU856 (G alarm, no integrated G protection) ETU856 ETU856 ETU856 ETU856 ETU856 ETU856 ETU856 ETU860 EU489 without contactor at 480 V¹¹) kA 100 110 200 Approval acc. to IEC 60947-2 Annex O ICB Integrated, instantaneous short-circuit release for intrinsic device protection I ETU310M ETU310M ETU310M ETU310M EU489/cULus, IEC 60947-2 IEC 60947-2 Direction of power flow and infeed Top and bottom	<u></u>	ETU820			•
ETU350	LIG	ETU330		•	•
ETU550 ETU850 ETU850 ETU556 ETU856 ETU856 ETU856 ETU856 ETU856 ETU860 ETU870 ETU870 ETU880 ET		ETU830		•	
ETU850 LSI (G alarm, no integrated G protection) ETU856 ETU856 ETU856 ETU856 ETU860 ETU860 ETU860 ETU860 Motor circuit protector (protective circuit breaker for motor starter combinations) 3VA6 Rated current I _n A 25 100 Breaking capacity acc. to UL 489 without contactor at 480 V¹) Approval acc. to IEC 60947-2 Annex O ICB Integrated, instantaneous short-circuit release for intrinsic device protection I ETU310M Standards and specifications Standards and specifications UL489/cULus, IEC 60947-2 Direction of power flow and infeed Top and bottom Top and bottom	LSI	ETU350		•	
LSI		ETU550		•	
ETU856		ETU850		•	
ETU360 ETU560 ETU860 Motor circuit protector (protective circuit breaker for motor starter combinations) 3VA6 Rated current I _n A 25 100 Breaking capacity acc. to UL 489 without contactor at 480 V¹) Approval acc. to IEC 60947-2 Annex O ICB Integrated, instantaneous short-circuit release for intrinsic device protection I ETU310M Standards and specifications Standards and specifications UL489/cULus, IEC 60947-2 Direction of power flow and infeed Top and bottom Top and bottom				•	•
ETU560 ETU860 Motor circuit protector (protective circuit breaker for motor starter combinations) 3VA6 Rated current I _n A 25 100 110 200 Breaking capacity acc. to UL 489 without contactor at 480 V¹) kA 100 100 Approval acc. to IEC 60947-2 Annex O ICB Integrated, instantaneous short-circuit release for intrinsic device protection I ETU310M Standards and specifications Standards and specifications UL489/cULus, IEC 60947-2 Direction of power flow and infeed Top and bottom Top and bottom	(G alarm, no integrated G protection)	ETU856		•	•
ETU860	LSIG	ETU360		-	-
Motor circuit protector (protective circuit breaker for motor starter combinations) 3VA6 Rated current I _n A 25 100 110 200 Breaking capacity acc. to UL 489 without contactor at 480 V¹) kA 100 100 Approval acc. to IEC 60947-2 Annex O ICB ■ ■ Integrated, instantaneous short-circuit release for intrinsic device protection I ETU310M ■ ■ Standards and specifications Standards and specifications UL489/cULus, IEC 60947-2 UL489/cULus, IEC 60947-2 Direction of power flow and infeed Top and bottom Top and bottom				•	•
Rated current In A 25 100 110 200 Breaking capacity acc. to UL 489 without contactor at 480 V 1) kA 100 100 Approval acc. to IEC 60947-2 Annex O ICB					•
Breaking capacity acc. to UL 489 without contactor at 480 V 1) kA 100 100 Approval acc. to IEC 60947-2 Annex O ICB Integrated, instantaneous short-circuit release for intrinsic device protection I ETU310M Standards and specifications Standards and specifications UL489/cULus, IEC 60947-2 Direction of power flow and infeed Top and bottom	Motor circuit protector (protective circu	it breaker for motor star	rter combination		
Approval acc. to IEC 60947-2 Annex O ICB Integrated, instantaneous short-circuit release for intrinsic device protection I ETU310M Standards and specifications Standards and specifications UL489/cULus, UL489/cULus, IEC 60947-2 Direction of power flow and infeed Top and bottom					
Integrated, instantaneous short-circuit release for intrinsic device protection I ETU310M Standards and specifications Standards and specifications UL489/cULus, IEC 60947-2 Direction of power flow and infeed Top and bottom Top and bottom	3 . ,		kA	100	
I ETU310M Standards and specifications Standards and specifications UL489/cULus, IEC 60947-2 Direction of power flow and infeed Top and bottom Top and bottom				•	•
Standards and specificationsUL489/cULus, IEC 60947-2UL489/cULus, IEC 60947-2Direction of power flow and infeedTop and bottomTop and bottom	Integrated, instantaneous short-circuit	release for intrinsic devi	ce protection		
Standards and specificationsUL489/cULus, IEC 60947-2UL489/cULus, IEC 60947-2Direction of power flow and infeedTop and bottomTop and bottom	ı	ETU310M		•	•
Direction of power flow and infeed IEC 60947-2 IEC 60947-2 Top and bottom Top and bottom					
	·				
Standard connection technology Without connection technology Without connection technology	Direction of power flow and infeed			Top and bottom	Top and bottom
	Standard connection technology			Without connection technology	Without connection technology

[■] Available — Not available/not present

 $^{^{\}mbox{\scriptsize 1)}}\,$ Breaking capacity in combinations with contactor (SCCR rating) may differ



Top and bottom

Nut keeper kit

Top and bottom

Without connection

technology

System overview, page 2/20

Top and bottom

Without connection

technology

Top and bottom

Nut keeper kit

Top and bottom

Without connection

technology

Top and bottom

Without connection

technology

Top and bottom

Without connection

technology

Trip units

Protection system for 3VA molded case circuit breakers up to 2000 A

Trip units	Thermal-magnetic	Electronic	Electronic with display	Electronic with display and measurement function
	TM240 1,/A 1,/A 1,/A	ETUSSOLSI I/A t/s Led ty/s Led ACT ACT ACT ACT ACT ACT ACT ACT	ETU550M LSI	ETUBOOM LSIG A ESC ON 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	TM 2-series	ETU 3-series	ETU 5-series	ETU 8-series
Protective function Line protection	TM210, TM230, TM240	ETU320, ETU330, ETU350, ETU360	ETU550, ETU556, ETU560	ETU820, ETU830, ETU850, ETU856, ETU860
Starter protection	TM120M	ETU310M	-	-
Integrated functions	Catting and mading the	Cattion and mading the	Catting and anadison the	Catting and an align the arrange to
Parameterizing	Setting and reading the parameters • In A	Setting and reading the parameters • In A and s	Setting and reading the parameters Via display and communication Fine setting of the parameters Reading the measured values	Setting and reading the parameters Via display and communication Fine setting of the parameters Reading the measured values
Status display	-	Indicating the ETU status via LEDs	Indicating the ETU status via LEDs	Indicating the ETU status via LEDs
Interface	-	Interface for test devices	Interface for test devices	Interface for test devices
Measurement function	-	-	-	Measurement function integrated
Optional expansions				
24 V module				
	-	-	24 V module for continuous power supply (also without primary current through the molded case circuit breaker)	24 V module for continuous power supply (also without primary current through the molded case circuit breaker)
External function box				
	-	EFB300 external function box for connection to the ETU	EFB300 external function box for connection to the ETU	EFB300 external function box for connection to the ETU
Maintenance mode box	-			
		MMB300 maintenance mode box for connection to the ETU ¹⁾	MMB300 maintenance mode box for connection to the ETU	MMB300 maintenance mode box for connection to the ETU ¹⁾
Communication module				
	-	-	COM060 communication module	COM060 communication module 1)
Data concentrator				
	-	-	COM800/COM100 breaker data server with interface to • PROFIBUS • PROFINET • Modbus RTU • Ethernet (Modbus TCP)	COM800/COM100 breaker data server with interface to • PROFIBUS • PROFINET • Modbus RTU • Ethernet (Modbus TCP)
External display				
	-	-	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

 $^{^{1)}\,}$ For 3VA67, 3VA68 and 3VA69 (3VA UL Large Frame), this function is already integrated in the ETU

Protective functions of the 3VA5 with thermal-magnetic trip unit

	TM120M	TM210	TM230	TM240
	AM	FTFM	FTAM	ATAM
Protection				
Motor circuit protector		-	-	-
Line protection	-			
Version available with				
1-pole breaker	-		-	-
2-pole breaker in 3-pole enclosure	-		•	-
3-pole breaker				
4-pole breaker	-			
Available protection parameters				
I _r adjustable	-	-	-	
I _i adjustable		-		
I _r fixed	-			-
I _i fixed	-		-	-

Protective functions of the 3VA6 with electronic trip unit

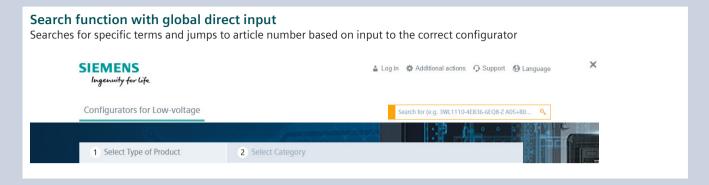
	ETU310M	ETU320 LI	ETU330 LIG	ETU350 LSI	ETU360 LSIG	ETU550 LSI	ETU556 LSI	ETU560 LSIG	ETU820 LI	ETU830 LIG	ETU850 LSI	LSI	LSIG
							(G alarm)					(G alarm)	
Protection													
Motor circuit protector		-	-	-	-	-	-	-	-	-	-		-
Line protection	-												
Version available with													
3-pole without external neutral conductor transformer	•	•	•	•	-	-	-	-	-	-	-	-	-
3-pole with external neutral conductor transformer	-	-	-	-	•	•	•	•	-	-	•	•	•
4-pole with protected neutral conductor transformer	-	•	•	•	-	•	•	•	•	•	•	•	•
Available protection parameters													
Characteristic in L range	I ² t												
$I_{\rm r}$	-												
$t_{\rm ld}$ at 6 × $I_{\rm r}$	-												
Thermal image													
Thermal image can be switched on/off	-	-	-	-	-	•	•	•	-	-	•	•	•
I _{sd}	-	-	-						-	-			
$t_{\rm sd}$ at 8 × $I_{\rm r}$	-	-	-					-	-	-		-	-
Characteristic in S range: I ² t _{sd}	-	-	-						-	-			-
Characteristic in S range: selectable $l^2t_{\rm sd}/t_{\rm sd}$	-	-	-	-	-	•	•	•	-	-	•	•	•
$I_{\rm i}$													
I _N 1)	-												
I _g	-	-		-		-	-		-		-	-	
$t_{\rm g}$ at 2 × $I_{\rm g}$	-	-		-		-	-		-		-	-	
Characteristic in G range: I ² t _g	-	-	-	-	-	-	-		-		-	-	
Characteristic in G range: selectable l^2t_g/t_g	-	-	-	-	-	-	-	•	-	-	-	-	•
Ground-fault alarm function	-	-	-	-	-	-			-	-	-		
ZSI	-												
Arc fault mitigation mode	-		-		-						-		

[■] Available - Not available/not present

¹⁾ Available for circuit breakers with an external current transformer for the neutral conductor and for 4-pole circuit breakers

Online configurator highlights

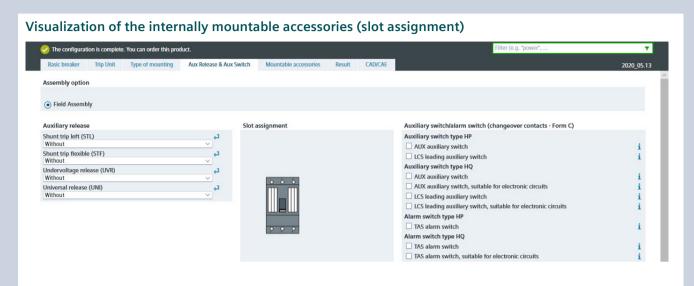
www.siemens.com/lowvoltage/configurators

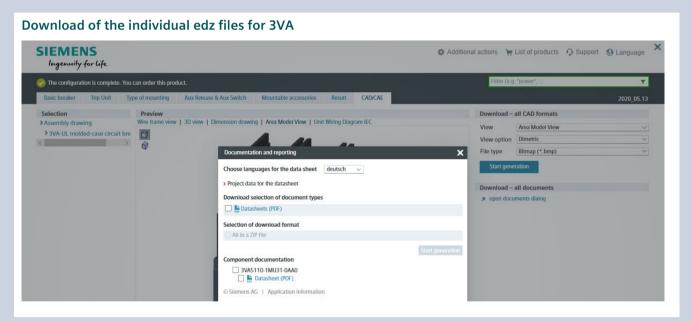


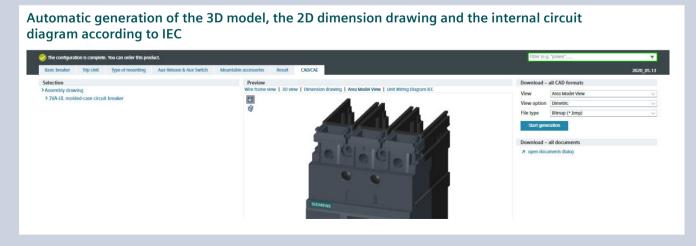




www.siemens.com/lowvoltage/3va-ul-configurator







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-ul-configurator

Molded case circuit breakers





3VA5 for standard applications

3VA6 for applications with more stringent requirements

Trip unit







Electronic trip unit



Electronic trip unit (ETU) with display, and optionally with measurement function

Trip unit accessories



24 V module





server



display



Test device

Type of mounting



Fixed-mounted



Withdrawable unit,

ಡಡಡ

complete kit





ಡೆಡಡ

Plug-in unit, complete kit

Supplementary accessories

Communica-

tion module





circuit

connector



feedthrough signaling switch



adapter

Cylinder lock Crank

Main conductor connections



connectors





broadened

Bus connectors



terminal





Circular conductor Box terminal

Connection accessories



Insulation accessories

Note:

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

Auxiliary releases/ auxiliary switches















Electrical alarm switch

Shunt trip STF/STL Universal release

Undervoltage release UVR

Auxiliary switch

Trip alarm switch TAS

Leading changeover switch LCS

Mountable accessories









Manual operator

Motor operator

Operating unit with Bowden cable

Operating unit with linkage

Additional circuit breaker accessories







Cover frame

Locking provision

Cylinder lock

Mechanical interlocking mechanisms







Sliding bar interlock

Interlocking with rod

Handle interlocking module with bowden cable

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

Structure of the article numbers

Basic configuration for line protection

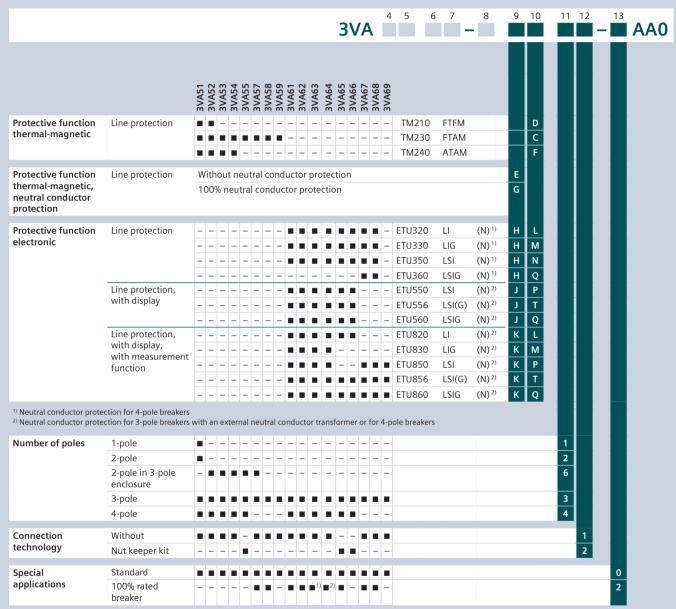
The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-ul-configurator

rip units	Thermal-magnetic														3\			5									A
	Electronic																	6									
		51	25	53	24	22	22	28	29	61	9	3 1	2 2	ן ע	9 9	2 2	000	69									
		×	3VA52	×	3VA54	Š	3VA57	Ž	×	3VA61	3VA62	3VA63	\ \{\times	\ \{\lambda}{\}	\ \{\lambda}{\}	Ş	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	3VA69				L		ı			
iize	125 A	(1)		_	_	_			_					, ,,	, (_		_	1	ŀ		ı		ł			
	150 A	+=	-	_	_	_					-	+	+			+	-	-	1			l		ı			
	250 A	-		_	_	_				Ξ		1-	. _	-		-	-	-	2			ı		ı			
	400 A	T-	-	•	_	_	-	-	-	_	-		ı -			_		-	3	i		ı		1			
	600 A	-	-	-		-	-	-	-	_	-	-		ı -		-	-	-	4	i		İ		1			
	800 A	-	-	-	-		-	-	-	-	-	-	-		ı -	-	-	-	3 4 5 6			ı					
	1000 A	-	-	-	-	-	-	-	-	-	-	-	-	- -		-	- -	-	6			L					
	1200 A	-	-	-	-	-		-	-	-	-	-	-	- -	-		۱ -	-	7			l		ı			
	1600 A		-	-	-	-	-	•	-	-	-	-	-	- -	-	-	•	-	8								
	2000 A		-	-	-	-	-	-		-	-	-	-	- -	- -	-	-		9								
Max. rated current	Line 15 A		-	-	-	-	-	-	-	-	Ī-	-	- -	- -	-	-	-	-			9	5					
n	protec- 20 A		-	-	-	-	-	-	-	-	-	-	-	- -	- -	-	-	-			9	5					
	tion 25 A		-	-	-	-	-	-	-	-	-	-	-	- -	- -	-	-	-			2	<u> </u>					
	30 A	•	-	-	-	-	-	-	-	-	-	-	-	- -	-	-	-	-			3	C		ı			
	35 A		-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-			3	[5		ı			
	40 A	-	-	-	-	-	_	-	-	11/	' -	+	+-	-	-	-	-	-			4	5	2	ı			
	45 A	-	•	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-			4			ı			
	50 A	-	•	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-			5	C	_	ı			
	60 A	-	•	-	-	-	-	-	-	2)) –	-	-	-	-	-	-	-			6	C		ı			
	70 A 80 A		H	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-			7			ł			
	90 A			_	-	-	-	-	-	_	-	-	-	-	-	-		-			8 9			ł			
	100 A			_	_			_		Ī								Ε			1	6		ł			
	110 A		Ē	_	_	_	_	_	_	Ξ	-	-				_		-			1	1		ı			
	125 A			-	-	-	-	-	-	_	-	-	. -	. -	. -	-	. -	-			1			1			
	150 A	-		-	-	-	-	-	-		-	-	-	-	-	-	-	-			1	2 5	3	ı			
	175 A	-		-	-	-	-	-	-	-	-	-	- -	-	-	-	-	-			1	7	7				
	200 A	-			-	-	-	-	-	-	-	-	-	-	-	-	- -	-			2	(
	225 A	-			-	-	-	-	-	-	-	-	- -	- -	- -	-	- -	-			2	0 2 5	2				
	250 A		•		-	-	-	-	-	-			- ا	-	-	-	-	-			2	ļ:	5	ı			
	300 A	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-			3	9		ı			
	350 A	-	-		-	-	-	-	-	_	-	-	-	-	+	-	-	-			3	!		4			
	400 A	-	-	-	_	_	-	-	-	_	-		۳	-	+	-	-	-			4	C	<u>'</u>	ł			
	450 A 500 A	-	-	_				-		_	1-	-			1	-		-			4 5						
	600 A	+=	Е	_			_		_	_	+=							-			6						
	700 A	+=	Ε	_	_			_	=	_	ΗΞ						-	-			6 7						
	800 A	-	-		-	•		_	_	_	-	-			-		i -	-			8	1					
	900 A	-	-	-	-	_		-	-	_	-	-	-	- -		-	-	-			9						
	1000 A							-	-	-	-	-	-	-			ı -	-			1	l					
	1200 A							-	-	-	-	-	-	- -	- -		ı –	-			1	2	2				
	1400 A						-	•	-	-	-	-	-	- -	- -	-	-	-			1	4					
	1600 A						-	•	-	-	-	-	-	- -	-	-		-			1	1					
	1800 A							-		-	-	-	-	- -	- -	-	-	-			1	8					
	2000 A	\ -	-	-	-	-	-	-		_	-			-	-	-	-				2	C					
hort-circuit	25 kA		-	-	-	-	-	-	-	-	-	-	-	- -	- -	-	-	-					4				
reaking capacity	35 kA																						4 5 6 7				
t 480 V	65 kA	-	•	•	-	•	•	•			-	E						-					6				
50/60 Hz	100 kA 150 kA	-	•				•	•	•		•	E	I										7 8 0				
													- 1 -	- 1				_									

 $^{^{1)}}$ Available for breaking capacity classes M (35 kA), H (65 kA), C (100 kA) and L (150 kA) at 480 V $^{2)}$ Available for breaking capacity class E (200 kA) at 480 V

■ Available

Not available/not present



¹⁾ Only possible for 250 A

²⁾ Only possible for 400 A

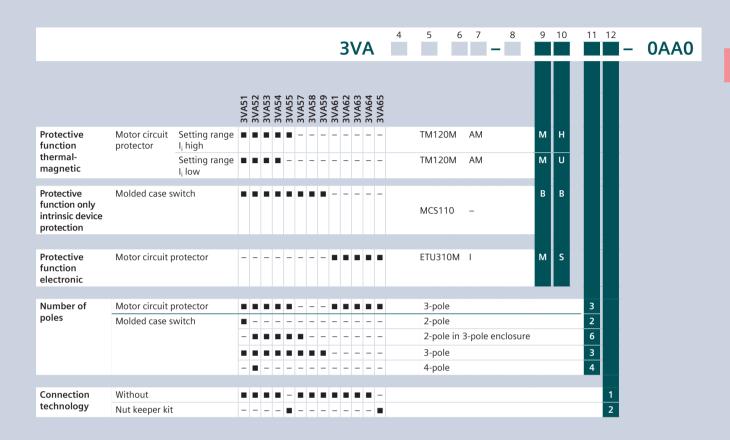
Structure of the article numbers

Basic configuration for motor circuit protectors and molded case switches

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-ul-configurator

										3	٧	Α	4	5		6	7	-]	8	9 1	10	11 1	_	0A/
rip units	Thermal-magnetic												5											
inp units	Electronic												5 6	1										
			_	2 6	4	2	_	ω ο	ν -	7	m	4 п												
			/A5	3VA52	/A5	/A5	A5	A 5	A6	/A6	/A6	/A6												
			ω i	(m)	m	ĕ	m i	m 6	ń რ	ĕ	m i	m 6	5											
Size	125 A			- -	-	-	-	- -	- -	-	-	- -		1		I								
	150 A		-	- -	-	-	-	- -	- =		-	- -		1										
	250 A		-	-	-	-	-	- -	- -		-	- -		2										
	400 A				-	-			-	-	•		-	3										
	600 A 800 A		-		H				+-	-	-	-		4 5 7	-	ı								
	1200 A		-		H						-			7					1					
	1600 A						-							8					1					
	2000 A		-		-	_		=	1-	-	_			8 9										
Max. rated current		1 A	•	- -	-	-	-		- -	-	_	- -	_			8	1							
n	protector	2 A		- -	-	-		- -	- -	-		- -	-			0	2							
		3 A			-	-			+-	-		- -				0	2 3 5 7 1 5 5							
		5 A 7 A			-	-	-	- -		-	-	_ -				0	7		-					
		10 A			Ε										-	9	1		1					
		15 A			-	_	_	-		-						9	5		1					
		25 A			-	_				_						2	5							
		30 A			-	-	_	_ -	- =	-	-	_ -				3	0		1					
		40 A			-	-	-			-	-						0		1					
		50 A			-	-	-		- =	-	-					4 5	0							
		70 A			-	-	-		- =	-	-					7	0							
		80 A			-	-	-		- =	-	-					8	0 0 0 0							
		90 A			-	-	-	- -	- =	-	-					9	0							
		100 A	-	- -	-	-	-	- -	- =	-	-	- -				1	0							
		110 A		- -	-	-	-	- -	- -		-				_	1	1							
		125 A			-	-	-	- -	- -	П	-		-			1	2 5 0 5							
		150 A	-		-	-	-			Н	-	- -	-			1	5							
		200 A 250 A	-		-	-	-	- -		-	_	_				2	-		1					
		400 A				_					1					4	0							
		500 A	-			_				_	-	-				5	0							
		600 A	1-1				_			-	_	Ξ.				6	0 0 0							
		800 A	1-1		-		-			-	-	- 1	1			8	0		1					
	Molded case	100 A		-	-	-	-			-	-					1								
	switch	150 A	-	-	-	-	-	- -	- -	-	-					1	5 5							
		250 A	-	-	_	-	-	- -	- -	-	-	- -				2								
		400 A	-	- •	-	-	-	- -	- -	-	-	- -				4 6	0							
		600 A		- -		-	-	- -	- -	-	-	- -				6	0							
		800 A		- -	-		-		- -	-	-					8	0							
		1000 A	-	- -	-	-	-	- -	- -	-		- -				1	0							
		1200 A 1600 A	-		-	H		-	#	-	_					1	6							
		2000 A	-	_		_							_			2	0 2 6 0							
		2000 A	-		Ē		_	-	_	_						2	V							
Short-circuit	Without, with	65 kA	-	-		•	-		- -	-	-	- -							0					
oreaking capacity at 480 V	SCCR rating as a combined device			- -	-	-	-		- -	-	-	- -							1					
at 480 V 50/60 Hz	combined device	10511	-	- -	-	-	•	•	-	-	-	- -	-					_[6 1 7					
		100 kA	-		Ш		-	- -	- -	П			l l						1 1					



Internal accessories

Auxiliary and alarm switches (changeover contacts)

							3VA61		
						3VA51	3VA62		
						3VA52	3VA63		
						3VA53	3VA64	3VA57	3VA67
						3VA54	3VA65	3VA58	3VA68
						3VA55	3VA66	3VA59	3VA69
xiliar	y switches								
		contacts of the auxilia			molded case circuit breaker se circuit breaker close in				
١	Туре	Width	I _e	U _e AC/DC	Version				
	HQ	7 mm (1 slot)	6 A	240 V/250 V	Standard		3VA9978	-0AA12	
			0.3 A	24 V/24 V	Electronic-compatible		3VA9978	-0AA13	
	HP	14 mm (2 slots)	10 A	600 V/250 V	Standard		3VA9978	-0AA11	
ding		ver switches LCS							
	• Sign	ed for load shedding, nal the opening of the circuit breaker trips			time of 20 ms in advance				
١	Туре	Width	I _e	U _e AC/DC	Version				
ŀ	HQ	7 mm (1 slot)	6 A	240 V/250 V	Standard	3VA99	78-0AA22		_
			0.3 A	24 V/24 V	Electronic-compatible	3VA99	78-0AA23		_
	HP								
r	пг	14 mm (2 slots)	10 A	600 V/250 V	Standard	3VA99	78-0AA21		_
alar			10 A	600 V/250 V	Standard	3VA99	78-0AA21		-
o alar	r m switche • Sigi • Are	es TAS nal every circuit break actuated whenever t	ker tripping	operation	Standard ker switches to the TRIP	3VA99	78-0AA21		
o alar	• Sign • Are pos	es TAS nal every circuit break actuated whenever t ition	ker tripping the molded	operation case circuit breal	xer switches to the TRIP	3VA99	78-0AA21		
o alar	• Sig • Are pos Type	es TAS nal every circuit break actuated whenever t iition Width	ker tripping the molded I _e	operation case circuit breal U _e AC/DC	ker switches to the TRIP Version	3VA99		-0AR12	
o alar	• Sign • Are pos	es TAS nal every circuit break actuated whenever t ition	ker tripping the molded I _e 6 A	operation case circuit breal U _e AC/DC 240 V/250 V	ker switches to the TRIP Version Standard	3VA99	3VA9978		
o alar	• Sig • Are pos Type	es TAS nal every circuit break actuated whenever t iition Width	ker tripping the molded I _e	operation case circuit breal U _e AC/DC	ker switches to the TRIP Version	3VA99		-0AB13	
l !	• Sign • Are pos Type HQ	es TAS nal every circuit break actuated whenever t sition Width 7 mm (1 slot)	ker tripping the molded I _e 6 A 0.3 A	operation case circuit breal U _e AC/DC 240 V/250 V 24 V/24 V	ver switches to the TRIP Version Standard Electronic-compatible	3VA99	3VA9978 3VA9978	-0AB13	
	• Sign • Are pos Type HQ HP	es TAS nal every circuit break a actuated whenever to ition Width 7 mm (1 slot) 14 mm (2 slots)	ker tripping the molded I _c 6 A 0.3 A 10 A	operation case circuit breal U _e AC/DC 240 V/250 V 24 V/24 V 600 V/250 V	Version Standard Electronic-compatible Standard	3VA99	3VA9978 3VA9978	-0AB13	
	• Sign • Are pos Type HQ HP	es TAS nal every circuit break a actuated whenever to ition Width 7 mm (1 slot) 14 mm (2 slots)	the molded I o 6 A 0.3 A 10 A	operation case circuit breal U _e AC/DC 240 V/250 V 24 V/24 V 600 V/250 V	Version Standard Electronic-compatible Standard	3VA99	3VA9978 3VA9978	-0AB13	
	• Sign • Are pos Type HQ HP	es TAS nal every circuit break a actuated whenever to ition Width 7 mm (1 slot) 14 mm (2 slots) witches EAS actuated as soon as ten in the event that the	the molded I o 6 A 0.3 A 10 A	operation case circuit breal U _e AC/DC 240 V/250 V 24 V/24 V 600 V/250 V	Version Standard Electronic-compatible Standard	3VA99	3VA9978 3VA9978	-0AB13	
	• Sign • Are pos Type HQ HP al alarm sv	es TAS nal every circuit break a actuated whenever to ition Width 7 mm (1 slot) 14 mm (2 slots) witches EAS actuated as soon as ten in the event that the	the molded I o 6 A 0.3 A 10 A the main cone breaker i	operation case circuit breal Ue AC/DC 240 V/250 V 24 V/24 V 600 V/250 V ontacts of the mostripped by the E	Version Standard Electronic-compatible Standard	3VA99	3VA9978 3VA9978	-0AB13	- Already integrate

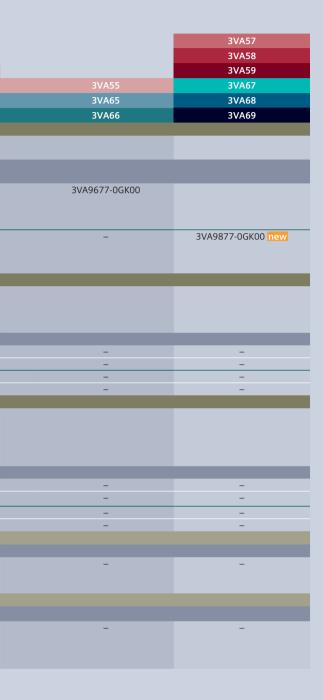
Auxiliary releases

						3VA57
						3VA58
						3VA59
				3VA51		3VA65
				3VA52	3VA61	3VA66
				3VA53	3VA62	3VA67
				3VA54	3VA63	3VA68
				3VA55	3VA64	3VA69
Shunt trips left ST	L			317.00		317.03
		mote-controlled tripping o	f the molded case circuit breaker			
		ularly low power consump				
et an	Version	<i>U</i> 50/60 Hz AC	U _e DC			
	Standard	-	12 V		3VA9978-0BL10	
SEMENS		24 V	24 30 V		3VA9978-0BL30	
at 1		48 60 V	48 60 V		3VA9978-0BL31	
		110 127 V	110 127 V		3VA9978-0BL32	
		208 277 V	220 250 V		3VA9978-0BL33	
		380 600 V	_		3VA9978-0BL20	
Shunt trips flexibl	e STF	300 000 V			34773770 00220	
	Used for rerCan be flexi		f the molded case circuit breaker nd right-hand accessories compartment of			
APRIL .	Version	<i>U</i> 50/60 Hz AC	U _e DC			
		24 V	-	-	3VA9978-0BA20	-
SIE MENS		48 60 V	-	_	3VA9978-0BA21	_
42		110 127 V	-	_	3VA9978-0BA22	_
		208 277 V	_	_	3VA9978-0BA23	_
		380 500 V	_	_	3VA9978-0BA24	_
		600 V	_	_	3VA9978-0BA25	_
Universal releases	UNI	0001			31/133/0 05/123	
		on of shunt trip and under	voltage release			
A STATE OF THE STA	Version	U_ 50/60 Hz AC	U _o DC	_	_	
SEE	Version		12 V		3VA9978-0BD11	
Name of the last o		_	24 V		3VA9978-0BD11	
22 7			48 V		3VA9978-0BD12	
			40 V		3VA9976-00D13	
Undervoltage rele	eases UVR					
	operational		in the event that the rated ircuit drops below a minimum			
SES .	Version	U _e 50/60 Hz AC	U _e DC			
Malaja		-	12 V		3VA9978-0BB10	
		-	24 V		3VA9978-0BB11	
		24 V	-		3VA9978-0BB20	
		-	48 V		3VA9978-0BB12	
		120 127 V	-		3VA9978-0BB24	
		-	125 127 V		3VA9978-0BB14	
		208 230 V	-		3VA9978-0BB25	
		-	250 V		3VA9978-0BB16	
		440 480 V	-		3VA9978-0BB27	
Time-delay device	es for <u>undervolta</u>					
Aller	Version	<i>U</i> ຼ 50/60 Hz AC	<i>U</i> ₀ DC			
22224		230 V	230 V		3VA9978-0BF22	
••••			24 V		3VA9978-0BF23	

							3VA53
						3VA52	3VA54
						3VA61	3VA63
					3VA51	3VA62	3VA64
Front mounted	rotary operators						
	HandleDegree of proteFor 3-pole and 4						
	Version	Door open function	Illumination kit	Door interlock			
	Standard (gray)	Without	Without	Without	3VA9137-0EK11	3VA9277-0EK11	3VA9447-0EK11
				With	3VA9137-0EK21	3VA9277-0EK21	3VA9447-0EK21
			With	Without	3VA9137-0EK13	3VA9277-0EK13	3VA9447-0EK13
				With	3VA9137-0EK23	3VA9277-0EK23	3VA9447-0EK23
		With	Without	With	3VA9137-0EK31	3VA9277-0EK31	3VA9447-0EK31
(a).			With	With	3VA9137-0EK33	3VA9277-0EK33	3VA9447-0EK33
	EMERGENCY-OFF (red/yellow)	Without	Without	Without	3VA9137-0EK15	3VA9277-0EK15	3VA9447-0EK15
				With	3VA9137-0EK25	3VA9277-0EK25	3VA9447-0EK25
			With	Without	3VA9137-0EK17	3VA9277-0EK17	3VA9447-0EK17
				With	3VA9137-0EK27	3VA9277-0EK27	3VA9447-0EK27
		With	Without	With	3VA9137-0EK35	3VA9277-0EK35	3VA9447-0EK35
			With	With	3VA9137-0EK37	3VA9277-0EK37	3VA9447-0EK37
Door mounted							
	With mounting	4-pole breakers	ation				
	Version	Door open function	Illumination kit	Door interlock			
	Standard (gray)	Without	Without	With	3VA9137-0FK21	3VA9277-0FK21	3VA9447-0FK21
			With	With	3VA9137-0FK23	3VA9277-0FK23	3VA9447-0FK23
		With	Without	With	3VA9137-0FK31	3VA9277-0FK31	3VA9447-0FK31
			With	With	3VA9137-0FK33	3VA9277-0FK33	3VA9447-0FK33
	EMERGENCY-OFF (red/yellow)	Without	Without	With	3VA9137-0FK25	3VA9277-0FK25	3VA9447-0FK25
	(reu/yenow)		With	With	3VA9137-0FK27	3VA9277-0FK27	3VA9447-0FK27
		With	Without	With	3VA9137-0FK35	3VA9277-0FK35	3VA9447-0FK35
			With	With	3VA9137-0FK37	3VA9277-0FK37	3VA9447-0FK37

	3VA57
	3VA58
3VA55	3VA59 3VA67
3VA65	3VA67
3VA66	3VA69
31.03	511.05
3VA9677-0EK11	3VA9877-0EK11 new
3VA9677-0EK21	-
-	-
-	-
3VA9677-0EK31	-
-	-
3VA9677-0EK15	3VA9877-0EK15 new
3VA9677-0EK25	-
-	-
-	-
3VA9677-0EK35	-
-	-
3VA9677-0FK21	3VA9877-0FK21 new
3VA9677-0FK23	-
3VA9677-0FK31	-
3VA9677-0FK33	-
3VA9677-0FK25	3VA9877-0FK25 new
3VA9677-0FK27	-
3VA9677-0FK35	-
3VA9677-0FK37	-

							3VA53	
						3VA52	3VA54	
						3VA61	3VA63	
					3VA51	3VA62	3VA64	
Door mounted	rotary operators wi	ithout handle						
	Degree of prote	ection IP30						
	 For 3-pole and 	4-pole breakers						
	Version	Door open function	Illumination kit	Door interlock				
	With shaft stub (gray)	Without	Without	Without	3VA9137-0GK00	3VA9277-0GK00	3VA9447-0GK00	
	With shaft stub (gray)	Without	Without	Without	-	-	-	
ide wall mour	nted rotary operator	rs without mounti	ng plates					
	Rotary operato	r with shaft 300 m asking plate 75 × 7 ection IP65	m					
6 (0)	Version	·	Illumination kit					
100)	Standard (gray)		Without		3VA9137-0PK11	3VA9277-0PK11	-	
			With		3VA9137-0PK13	3VA9277-0PK13	-	
	EMERGENCY-OFF	(red/yellow)	Without		3VA9137-0PK15	3VA9277-0PK15	-	
			With		3VA9137-0PK17	3VA9277-0PK17	-	
ide wall mour	nted rotary operator		•					
	the side wall	asking plate 75 × 7 ection IP65	nd mounting plate for 5 mm	mounting directly on				
	Version		Illumination kit					
4	Standard (gray)		Without		3VA9137-0PK51	3VA9277-0PK51	-	
			With		3VA9137-0PK53	3VA9277-0PK53	-	
	EMERGENCY-OFF	(red/yellow)	Without		3VA9137-0PK55	3VA9277-0PK55	-	
			With		3VA9137-0PK57	3VA9277-0PK57	-	
Door interlock	for side wall mount	ted rotary operato	rs					
	_				3VA9177-0VF40	3VA9277-0VF40	-	
xtended DIN r	ails for N/PE termin	als						
	Version		Rated current I					
	For mounting plat	te	≤250 A			3VA9987-0GL30		
	. osanting plan					27.1320, 00230		

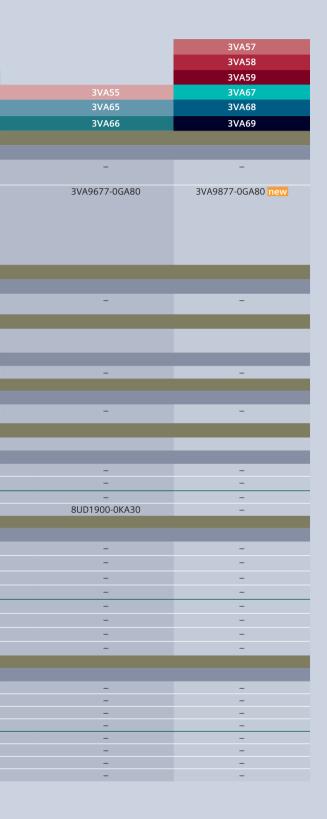


System overview, page 2/20

						3VA53
					3VA52	3VA54
					3VA61	3VA63
				3VA51	3VA62	3VA64
pplementar	y handles for door m	ounted rotary or	perators (NFPA79)			
	Mandatory acco	ording to NFPA79				
	For operation w		is open			
	Version					
	Standard			3VA9137-0GC01	3VA9477-0GC01	3VA9477-0GC11
	(gray) EMERGENCY-OFF			3VA9137-0GC05	3VA9477-0GC05	3VA9477-0GC15
	(red/yellow)			3VA9137-0GC03	3VA9477-0GC03	3VA9477-0GC13
	Standard			_	_	_
1	(gray)					
•	EMERGENCY-OFF			-	-	-
,	(red/yellow)					
The of						
ndles						
	With masking p					
	Version	Door open	Tolerance compensation			
	C+ + + ()	function	west	0110477	4.04044	01104734 04044
100	Standard (gray)	Without	Without		1-0AB11	8UD1731-0AB11
		With	With Without		1-0AB21 1-0AC11	8UD1731-0AB21 8UD1731-0AC11
		VVILII	With		1-0AC21	8UD1731-0AC11
			VVILII	000172	1-0AC21	00D1731-0AC21
	EMERGENCY-OFF	Without	Without		1-0AB15	8UD1731-0AB15
5	EMERGENCY-OFF (red/yellow)		With	8UD172	1-0AB25	8UD1731-0AB25
		With	With Without	8UD172 8UD172	1-0AB25 1-0AC15	8UD1731-0AB25 8UD1731-0AC15
ndle lever e	(red/yellow)		With	8UD172 8UD172	1-0AB25	8UD1731-0AB25
ndle lever e	(red/yellow) extensions	With	With Without With	8UD172 8UD172	1-0AB25 1-0AC15	8UD1731-0AB25 8UD1731-0AC15
ndle lever e	(red/yellow) extensions	With	With Without	8UD172 8UD172	1-0AB25 1-0AC15	8UD1731-0AB25 8UD1731-0AC15
ndle lever e	(red/yellow) xtensions • Note: The hand	With	With Without With	8UD172 8UD172	1-0AB25 1-0AC15	8UD1731-0AB25 8UD1731-0AC15
	(red/yellow) xtensions • Note: The hand	With	With Without With	8UD172 8UD172	1-0AB25 1-0AC15	8UD1731-0AB25 8UD1731-0AC15
ndle lever e	(red/yellow) xtensions • Note: The hand the breakers.	With	With Without With is already included in the scope of supply of	8UD172 8UD172	1-0AB25 1-0AC15	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
	(red/yellow) xtensions • Note: The hand the breakers.	With	With Without With is already included in the scope of supply of Length	8UD172 8UD172	:1-0AB25 :1-0AC15 :1-0AC25	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
	(red/yellow) xtensions • Note: The hand the breakers.	With	With Without With I is already included in the scope of supply of Length 300 mm	8UD172 8UD172	21-0AB25 21-0AC15 21-0AC25 21-0AC25 2-2 8UD1900-2WA00	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
	(red/yellow) xtensions Note: The hand the breakers. Type 8 × 8 mm	With	With Without With It is already included in the scope of supply of Length 300 mm 600 mm	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WB00	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
	(red/yellow) xtensions • Note: The hand the breakers.	With	With Without With a is already included in the scope of supply of Length 300 mm 600 mm 305 mm	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WB00	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
	(red/yellow) xtensions Note: The hand the breakers. Type 8 × 8 mm	With	With Without With a is already included in the scope of supply of Length 300 mm 600 mm 305 mm 325 mm	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WB00	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
	(red/yellow) xtensions Note: The hand the breakers. Type 8 × 8 mm	With	With Without With a is already included in the scope of supply of Length 300 mm 600 mm 305 mm 325 mm 600 mm	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WB00 - -	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
afts	(red/yellow) xtensions Note: The hand the breakers. Type 8 × 8 mm 12 × 12 mm	With	With Without With a is already included in the scope of supply of Length 300 mm 600 mm 305 mm 325 mm	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WB00	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
	(red/yellow) xtensions • Note: The hand the breakers. Type 8 × 8 mm 12 × 12 mm	With	With Without With Is already included in the scope of supply of Length 300 mm 600 mm 305 mm 325 mm 600 mm 610 mm	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WB00 - -	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
afts	(red/yellow) xtensions Note: The hand the breakers. Type 8 × 8 mm 12 × 12 mm	With	With Without With It is already included in the scope of supply of Length 300 mm 600 mm 305 mm 325 mm 600 mm 610 mm	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WB00 - -	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
afts	(red/yellow) xtensions • Note: The hand the breakers. Type 8 × 8 mm 12 × 12 mm hafts Type	With	With Without With Is already included in the scope of supply of Length 300 mm 600 mm 305 mm 325 mm 600 mm 610 mm	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WB00 - - - - - - -	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
afts	(red/yellow) xtensions • Note: The hand the breakers. Type 8 × 8 mm 12 × 12 mm hafts Type	With	With Without With a is already included in the scope of supply of Length 300 mm 600 mm 305 mm 325 mm 600 mm 610 mm Use With door mounted rotary operator and side wall mounted rotary operator With door mounted rotary operator	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WB00 - - - - - - -	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
afts apters for sl	red/yellow) xtensions Note: The hand the breakers. Type 8 × 8 mm 12 × 12 mm hafts Type 8 × 8 mm 12 × 12 mm	With	With Without With a is already included in the scope of supply of Length 300 mm 600 mm 305 mm 325 mm 600 mm 610 mm Use With door mounted rotary operator and side wall mounted rotary operator	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WB00 - - - - - - -	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
afts	red/yellow) xtensions Note: The hand the breakers. Type 8 × 8 mm 12 × 12 mm hafts Type 8 × 8 mm 12 × 12 mm	With	With Without With a is already included in the scope of supply of Length 300 mm 600 mm 305 mm 325 mm 600 mm 610 mm Use With door mounted rotary operator and side wall mounted rotary operator With door mounted rotary operator	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WB00 - - - - - - -	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
afts apters for sl	xtensions Note: The hand the breakers. Type 8 × 8 mm 12 × 12 mm 12 × 12 mm 12 × 12 mm	With	With Without With a is already included in the scope of supply of Length 300 mm 600 mm 305 mm 325 mm 600 mm 610 mm Use With door mounted rotary operator and side wall mounted rotary operator With door mounted rotary operator	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WA00 8UD1900-2WA00 8UD1900-2WB00 - - - - - -	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
afts apters for sl	red/yellow) xtensions Note: The hand the breakers. Type 8 × 8 mm 12 × 12 mm 12 × 12 mm 12 × 12 mm x ype 8 × 8 mm 12 × 12 mm	With	With Without With a is already included in the scope of supply of Length 300 mm 600 mm 305 mm 325 mm 600 mm 610 mm Use With door mounted rotary operator and side wall mounted rotary operator With door mounted rotary operator	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WA00 8UD1900-2WA00 8UD1900-2WB00 - - - - 8UD1900-2DA00	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
apters for sl	red/yellow) xtensions Note: The hand the breakers. Type 8 × 8 mm 12 × 12 mm 12 × 12 mm 12 × 12 mm s Type 8 × 8 mm 12 × 12 mm	With	With Without With a is already included in the scope of supply of Length 300 mm 600 mm 305 mm 325 mm 600 mm 610 mm Use With door mounted rotary operator and side wall mounted rotary operator With door mounted rotary operator	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WA00 8UD1900-2WA00 8UD1900-2WB00 - - - - - -	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
apters for sl	red/yellow) xtensions Note: The hand the breakers. Type 8 × 8 mm 12 × 12 mm 12 × 12 mm xtensions Type 8 × 8 mm 12 × 12 mm xtensions Type 8 × 8 mm 12 × 12 mm xtensions Type 8 × 8 mm 12 × 12 mm xtensions Type 8 × 8 mm 12 × 12 mm xtensions	With	With Without With a is already included in the scope of supply of Length 300 mm 600 mm 305 mm 325 mm 600 mm 610 mm Use With door mounted rotary operator and side wall mounted rotary operator With door mounted rotary operator	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WA00 8UD1900-2WA00 8UD1900-2WB00 - - - - 8UD1900-2DA00	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
apters for sl	red/yellow) xtensions Note: The hand the breakers. Type 8 × 8 mm 12 × 12 mm 12 × 12 mm x × 8 mm 12 × 12 mm x × 12 mm	With	With Without With a is already included in the scope of supply of Length 300 mm 600 mm 305 mm 325 mm 600 mm 610 mm Use With door mounted rotary operator and side wall mounted rotary operator With door mounted rotary operator	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WB00 8UD1900-2WB00 8UD1900-2HA00 -	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25
apters for sl	red/yellow) xtensions Note: The hand the breakers. Type 8 × 8 mm 12 × 12 mm 12 × 12 mm xtensions Type 8 × 8 mm 12 × 12 mm xtensions Type 8 × 8 mm 12 × 12 mm xtensions Type 8 × 8 mm 12 × 12 mm xtensions Type 8 × 8 mm 12 × 12 mm xtensions	With	With Without With a is already included in the scope of supply of Length 300 mm 600 mm 305 mm 325 mm 600 mm 610 mm Use With door mounted rotary operator and side wall mounted rotary operator With door mounted rotary operator	8UD172 8UD172	8UD1900-2WA00 8UD1900-2WA00 8UD1900-2WA00 8UD1900-2WB00 - - - - 8UD1900-2DA00	8UD1731-0AB25 8UD1731-0AC15 8UD1731-0AC25

	3VA57
	3VA58
	3VA59
3VA55	3VA67
3VA65	3VA68
3VA66	3VA69
3VA9677-0GC01	-
3VA9677-0GC05	
-	3VA9877-0GC01 new
-	3VA9877-0GC05 new
	1-0AB11
8UD174	1-0AB21 1-0AC11
	1-0AC21
	1-0AB15
	1-0AB25
	1-0AC15
8UD174	1-0AC25
3VA9987-0SC10	3VA9877-0SC10 new
-	-
-	-
8UD1900-4WA00	-
8UD1900-4WB00	-
-	-
-	-
8UD190	0-4DA00
9110100	– 0-4HA00
80190	U-411AUU
-	-
8UD190	0-4GA00

						3VA61
					3VA52	3VA62
					3VA53	3VA63
				3VA51	3VA54	3VA64
Fixing brackets	s for shafts			SVAST	347.54	JVNOT
14						
0				3VA9137-0GA80	3VA947	7-0GA80
				-	-	-
(0)	_					
/ariable depth	adapters					
	Туре					
	8 × 8 mm				3VA9487-0GB10	
Interlocking m	odule UL 508A					
Interlocking in	Used when the handle is to remain o	n the circuit breaker whe	n the door is			
	open	THE CITCUIT BICARCI WITE	ii tiic door is			
1						
					8UC9400	
abeling plates	s for manual operators					
					3VA9087-0SX10	
77					3VA9087-05X10	
llumination ki	ts for manual operators					
	• 24 V DC voltage					
•	Version	Rated current I _n		9UD1000	0.010	_
	Front mounted rotary operator	125 250 A 150 600 A		8UD1900	J-UKATU -	8UD1900-0KA20
	Door mounted rotary operator and	125 600 A			8UD1900-0KA20	00D1300-0KA20
	side wall mounted rotary operator	600 1000A		_	-	_
ylinder locks ((type Kaba), standard masking plates					
	Use	Door open function	Key			
	For door mounted rotary operator and	Without	1		8UD1900-0MB01	
	side wall mounted rotary operator (in the masking plate),		2		8UD1900-0NB01	
	only for locking, not for interlocking		3		8UD1900-0PB01	
			4		8UD1900-0QB01	
		With	1		8UD1900-0MC01	
			2		8UD1900-0NC01	
			3		8UD1900-0PC01	
			4		8UD1900-0QC01	
Zylinderschlos	s (Typ KABA), NOT-AUS-Sichtblende	Daniel Constitution	V			
DE TON	Use For door mounted rotary operator and	Door open function	Key 1		8UD1900-0MB05	
	side wall mounted rotary operator	vviaiout	2		8UD1900-0NB05	
	(in the masking plate),		3		8UD1900-0PB05	
	only for locking, not for interlocking		4		8UD1900-0QB05	
		With	1		8UD1900-0MC05	
			2		8UD1900-0NC05	
			3 4		8UD1900-0PC05 8UD1900-0QC05	
			4		9001300-00003	



				3VA53
			3VA52	3VA54
			3VA61	3VA63
		3VA51	3VA62	3VA64
Cylinder locks	(tyne BONIS)	JVAJI	34702	JVAUT
Cyllider locks	Includes a lock with 2 keys			
	For locking or interlocking			
1 1	For installation on the circuit breaker side in all rotary operators			
0 2	For mounting in the adapter kit for the accessories compartment			
	 Note: The cylinder lock adapter for rotary operators is also needed for locking or interlocking circuit breakers via rotary operators 			
	Key	_		
	1		21/40090 01/110	
	3		3VA9980-0VL10	
			3VA9980-0VL30	
	4		3VA9980-0VL40	
Cylinder locks	(type RONIS), for 3VA9877-0EK1. front mounted rotary operators and 3VA877-0	FK2. door mounted ro	tary operators	
	Includes a lock with 2 keysFor locking			
0	For installation on the circuit breaker side in all rotary operators			
		_		
			-	
Cylinder lock a	dapters for rotary operators			
-0	To mount the cylinder lock in the rotary operator			
	(also possible with door mounted rotary operator and side wall mounted			
A B A DO	rotary operator), on circuit breaker side, NOT in masking plate			
			3VA9980-0LF20	
Auxiliary switc	h modules for rotary operators			
	Version			
(25.	1× leading to "ON"	-	-	-
60.0	2× leading to "ON"	3VA9137-0GX10	3VA947	7-0GX10
	1× leading to "OFF"	-	-	-
	2× leading to "OFF"	_	- 21/4047	- 7.0CV20
	2× leading to "ON" and 1× leading to "OFF"	_	3VA947	7-UGA2U
Mounting ada	oters for side wall mounted rotary operators			
6	Version			
60	Necessary accessories for 3VA side wall mounted rotary operators,	3VA9137-0GX01	3VA947	7-0GX01
0	if 3VA90GX.0 auxiliary switch modules are used			
Auvilianuswite	hes for 3VA9877-0EK1. front mounted rotary operators and 3VA877-0FK2. door	mounted retary ones	ators	
Auxiliary switc	Ness for 3VA98/7-UEK1. Front mounted rotary operators and 3VA8/7-UFK2. door	mounted rotary opera	itors	
	1× leading to "ON"			
-01	2× leading to "ON"	_	_	_
	1× leading to "OFF"	_	-	-
	2× leading to "OFF"	-	-	-
Operating unit	s with Bowden cable (MaxFlex operator), plastic			
7	Complete set, comprising:			
	Switching mechanism			
363	Handle, plasticEnclosure types 1, 3, 3R, 4, 12, 12K, black = OFF, red = ON			
	 Enclosure types 1, 3, 3k, 4, 12, 12k, black = OFF, red = ON Bowden cable, length 36 inch (0.9 m) 			
Size -				
		3VA9137-0CK12	3VA9277-0CK12	3VA9477-0CK12

	3VA57
	3VA58
	3VA59
3VA55	3VA67
3VA65	3VA68
3VA66	3VA69
3VA9980-0VL10	-
3VA9980-0VL30	-
3VA9980-0VL40	-
	3VA9870-0VL10 new
-	3VA9870-0VL10 IIEW
3VA9670-0LF20	-
-	-
-	-
	-
-	_
_	-
-	-
_	3VA9877-0GX31 new
-	3VA9877-0GX32 new
-	3VA9877-0GX41 new
-	3VA9877-0GX42 new
-	-

							3VA53
						3VA52	3VA54
						3VA61	3VA63
					3VA51	3VA62	3VA64
Operating up	nits with Bowden cable (Ma	xFlex onerator) steel			SVAST	JVNOZ	SVNOT
b operating an	Complete set, compri						
40	 Switching mechan 	nism					
F-9 1	– Handle, steel, epo:						
5.5	Enclosure types 1,Bowden cable, len	3, 3R, 4, 12, 12K, black = (0.0 ms)	OFF, red = O	N .			
	- bowden cable, len	9(11 56 111(11 (0.9 111)		_	_		
	_		_		3VA9137-0CK72	3VA9277-0CK72	3VA9477-0CK72
					3VA3137-0CK72	3VA9277-0CK72	3VA3477-0CK72
Switching me	echanisms for operating un	it with Bowden cable					
ار • الم					3VA9137-0CB10	3VA9277-0CB10	3VA9477-0CB10
1-1					3VA3137-0CB10	3479277-00010	3VA9477-0CB10
1							
Handles for o	pperating unit with Bowden	cable					
40	Handle	Enclosure types	OFF	ON			
n A	Plastic	1, 3, 3R, 4, 12, 12K	Black	Red		3VA9977-0CH12	
40	Steel, epoxy-coated	1, 3, 3R, 4, 12, 12K	Black	Red		3VA9977-0CH72	
			Black	Black		3VA9977-0CH74	
•	Stainless steel,	1, 2, 3, 3R, 4, 4X, 12,		Red		3VA9977-0CH82	
	chrome-plated	12K, 13	Black	Black		3VA9977-0CH84	
Bowden cabl	es for operating unit with B	Bowden cable					
	Length				21/4027	0.00010	21/40570 00010
	36 inch (0.9 m) 48 inch (1.2 m)					8-0CC10 8-0CC20	3VA9578-0CC10 3VA9578-0CC20
1	60 inch (1.5 m)					8-0CC30	3VA9578-0CC20
ľ	72 inch (1.8 m)					8-0CC40	3VA9578-0CC40
	84 inch (2.1 m)					8-0CC50	3VA9578-0CC50
	96 inch (2.4 m)				3VA927	8-0CC60	3VA9578-0CC60
	120 inch (3.0 m)				3VA927	8-0CC70	3VA9578-0CC70
	144 inch (3.6 m)				3VA927	8-0CC80	3VA9578-0CC80
Auxiliary swi	tches for operating unit wit	th Bowden cable					
	 Voreilend von Ein nach 	ch Aus					
	Varianten						
-	1 Wechsler					3VA9478-0CX10	
₽	2 Wechsler					3VA9478-0CX20	
Operating un	nits with linkage						
B _/	Complete set, compri	ising:					
4 -	 Switching mechan 	ism					
Id	- Handle	200 400 222					
	For mounting depths Handle	200 400 mm		ON			
	Handle			Red	21/40120 001/72	21/40270 00/72	21/40479 001/72
•	Steel, epoxy-coated				3VA9138-0DK72	3VA9278-0DK72	3VA9478-0DK72
	Steel, chrome-plated			Red	3VA9138-0DK82	3VA9278-0DK82	3VA9478-0DK82
				Black	3VA9138-0DK84	3VA9278-0DK84	3VA9478-0DK84

	3VA57
	3VA58
	3VA59
3VA55	3VA67
3VA65	3VA68
3VA66	3VA69
3VA00	3 VA 69
3VA9677-0CK72	-
3VA9677-0CB10	-
-	-
3VA9877-0CH72	-
3VA9877-0CH74	-
3VA9877-0CH82	_
-	-
-	-
3VA9877-0CC20	-
3VA9877-0CC30	-
3VA9877-0CC40	-
3VA9877-0CC60	-
3VA9877-0CC00 3VA9877-0CC70	=
3VA9877-0CC80	
3473077-00000	
_	_
	_
_	-
	-
_	-

Motor operators

Motor operators wit	hout stored energy o	perators (MO320)					
	Addressable via control signals	Isolating features in accordance with IEC/EN 60947-1	Make time, typi for 3VA5	cally for 3VA6	Break time, typi for 3VA5	cally for 3VA6	Rated operational power
Ul	•	•	800 1700 ms	1000 1700 ms	800 1400 ms	800 1400 ms	250 W, max. 500 W (60 ms)
Motor operators wit	h stored energy oper	ators (SEO520)					
	Addressable via	Isolating features in	Make time, typi	cally	Break time, typi	cally	Rated
The same of the sa	control signals	accordance with IEC/EN 60947-1	for 3VA5	for 3VA6	for 3VA5	for 3VA6	operational power
	•	•	< 80 ms	< 80 ms	< 80 ms	< 80 ms	300 W, max. 500 W (60 ms)

Mechanical operat	ing cycles counters (for installation in the SEO520)	
	Mounting	Article No.
unn	For installation in the SEO520	3VA9987-0HX10
Cylinder lock adap	ters for SEO520	
A	Mounting	Article No.
0	For installation of cylinder locks in the SEO520	3VA9980-0LF30
Cylinder locks (typ	e RONIS)	
	 Includes a lock with 2 keys For locking the operating mode (Manual/Auto/Lock) of the SEO520 	
1, 1	Key	Article No.
1	1	3VA9980-0VL10
	3	3VA9980-0VL30
	4	3VA9980-0VL40

			3VA52		
			3VA61	3VA53	3VA63
		3VA51	3VA62	3VA54	3VA64
Rated control supply voltage	With communication				
24 60 V DC	-	3VA9137-0HA10	3VA9277-0HA10	3VA944	7-0HA10
110 230 V AC/ 110 250 V DC	-	3VA9137-0HA20	3VA9277-0HA20	3VA944	7-0HA20
Rated control supply voltage	With communication				
24 V DC	-	-	3VA9277-0HC10	3VA9447-0I	HC10 ¹⁾ new
42 60 V AC/DC	-	-	3VA9277-0HC20	3VA9447-0I	HC20 ¹⁾ new
110 230 V AC/ 110 250 V DC	-	-	3VA9277-0HC30	3VA9447-0I	HC30 ¹⁾ new
24 V DC	Yes	-	3VA9277-0HC15	-	3VA9447-0HC15 ¹⁾
110 230 V AC/ 110 250 V DC	Yes	-	3VA9277-0HC35	-	3VA9447-0HC35 ¹⁾

¹⁾ For 3VA53 and 3VA54 (UL/IEC) product versions < *E04* as well as for 3VA63 and 3VA64 (UL/IEC) product versions < *E03*, the SE0520 cannot be used. It may be necessary to upgrade to a circuit breaker with a higher product version.



Reset mode

All motor operators have the following reset modes:

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

The motor operator with SEO520 stored energy operator additionally has:

Reset mode 3: Reset via OFF-signal with additional acknowledge signal

Connection technology

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

Mounting base

Box terminals								
	Number of poles	Connectio	n options	Scope of supply	Cable cros	s-section, Cu stra	anded, class B	
					Min.	Max.		
AND	3P	0 0	-	3 single terminals	AWG 14	3/0		
0 0 0					AWG 10	3/0		
					AWG 4	350 kcmil		
					1/0	500 kcmil		
	4P	0 0	-	4 single terminals	AWG 14	3/0		
0 0 0 0					AWG 10	3/0		
					AWG 4	350 kcmil		
					1/0	500 kcmil		
Box terminal with	control wire tap							
	Number of poles	Connectio	n options	Scope of supply	Cable cros	s-section, Cu stra	anded, class B	
					Min.	Max.		
AND AND AND	3P	0 0	-	3 single terminals	AWG 10	3/0		
0 0 0					AWG 4	350 kcmil		
					1/0	500 kcmil		
-	4P	0 0	-	4 single terminals	AWG 10	3/0		
0 0 0 0					AWG 4	350 kcmil		
					1/0	500 kcmil		
Nut keeper kits								
	Number of poles	Connectio	n options	Scope of supply	Max. tap v	vidth	Max. tap thickness	
ាកាក	3P	0 0	-	3 terminals	17 mm	0.66 inch	6.5 mm	
(0) (0)					25 mm	0.98 inch	8 mm	
					35 mm	1.37 inch	10 mm	
					50 mm	1.96 inch	28 mm	
ាក្ខក្នុក	4P	0 0	-	4 terminals	17 mm	0.66 inch	6.5 mm	
(0.6)					25 mm	0.98 inch	8 mm	
					35 mm	1.37 inch	10 mm	
					50 mm	1.96 inch	28 mm	
Nut keeper kits, w	ith inch thread							
	Number of poles	Connectio	n options	Scope of supply	Max. tap v	vidth	Max. tap thickness	
88 88 80	3P	0 0	-	3 terminals	50.8 mm	2.0 inch	0.6" 0.8"/15 20 mm	
Nut keeper kits, w	ith motric throad							
Nut keeper kits, w	_	Connoctic	n ontions	Scope of supply	May teny	vidth	May tan thickness	
	Number of poles	Connectio		Scope of supply	Max. tap v		Max. tap thickness	
	3P	0 0	_	3 terminals	50 mm	1.96 inch	0.6" 0.8"/15 20 mm	

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

			3VA53				
			3VA54	3VA55			
		3VA61	3VA63	3VA65	3VA57	3VA58	3VA59
3VA51	3VA52	3VA62	3VA64	3VA66	3VA67	3VA68	3VA69
3VA9133-0JA11	-	-	-	-	-	-	-
-	3VA9233-0JA11	3VA9143-0JA12	-	-	-	-	-
-	3VA9233-0JA12	3VA9243-0JA12	-	-	-	-	-
-	-	-	3VA9473-0JA13 1)	-	-	-	-
3VA9134-0JA11	-	-	-	-	-	-	-
-	3VA9234-0JA11	3VA9144-0JA12	-	-	-	-	-
-	3VA9234-0JA12	3VA9244-0JA12	-	-	-	-	-
-	-	-	3VA9474-0JA13 1)	-	-	-	-
-	3VA9233-0JH11	3VA9143-0JH12		-	-	-	-
-	3VA9233-0JH12	3VA9243-0JH12	-	-	-	-	-
-	-	-	3VA9473-0JH13	-	-	-	-
_	3VA9234-0JH11	3VA9144-0JH12	-	-	-	-	-
-	3VA9234-0JH12	3VA9244-0JH12	-	-	-	-	-
-	-	-	3VA9474-0JH13	-	-	-	-
3VA9133-0QA00	-	-	-	-	-	-	-
-	3VA9233-0QA00	3VA9243-0QA00	-	-	-	_	-
-	-	-	3VA9473-0QA00	-	-	-	-
-	-	-	-	3VA9673-0QA00	-	-	-
3VA9134-0QA00	-	-	-	-	-	-	-
-		3VA9244-0QA00	-	-	-	-	-
-	-	-	3VA9474-0QA00	-	-	-	-
-	-	-	-	3VA9674-0QA00	-	-	-
-	-	-	-	-	3VA9873-0	QA00 new	-
-	-	-	-	-	3VA9803-0	QA00 <mark>new</mark>	-

System overview, page 2/20

Connection technology

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

Mounting base

Circular conductor	erminais. I cable								
	Number of poles	Conne	ection	Scope of supply	Cable cross	-section	Cu/AL	stranded, class B 1)	
		option			Min.	Max.	Cu	Al	
A STATE OF THE STA	3P	0	2 –	3 single terminals	AWG 14	AWG 8		_	
กลล				3	AWG 14	1/0			
								_	
					AWG 8	3/0			
					AWG 6	350 kcmil			
					AWG 1	600 kcmil			
2222	4P	0	2 –	4 single terminals	AWG 14	AWG 8		-	
01 81 81 81					AWG 14	1/0		•	
								-	
					AWG 8	3/0		•	
					AWG 6	350 kcmil		•	
					AWG 1	600 kcmil	•		
oi I I i									
Circular conductor t	erminals with contro				6.11		6 101		
Circular conductor t	erminals with contro	Conne	ection	Scope of supply	Cable cross			stranded, class B ¹⁾	
Circular conductor	Number of poles	Conne optior	ection 1s		Min.	Max.	Cu	Al	
Circular conductor	_	Conne	ection	Scope of supply 3 single terminals	Min. AWG 14	Max. AWG 8	Cu	Al –	
Circular conductor	Number of poles	Conne optior	ection 1s		Min.	Max.	Cu	Al	
Circular conductor	Number of poles	Conne optior	ection 1s		Min. AWG 14	Max. AWG 8	Cu	AI - •	
Circular conductor	Number of poles	Conne optior	ection 1s		Min. AWG 14 AWG 14	Max. AWG 8 1/0	Cu	Al	
Circular conductor	Number of poles	Conne optior	ection 1s		Min. AWG 14 AWG 14	Max. AWG 8 1/0	Cu	Al	
Circular conductor	Number of poles	Conne optior	ection 1s		Min. AWG 14 AWG 14 AWG 8 AWG 6	Max. AWG 8 1/0 3/0 350 kcmil	Cu	Al	
Circular conductor	Number of poles 3P	Conne option	ection ns ② –	3 single terminals	Min. AWG 14 AWG 14 AWG 8 AWG 6 AWG 1	Max. AWG 8 1/0 3/0 350 kcmil 600 kcmil	Cu	Al	
Circular conductor	Number of poles	Conne option	ection 1s		Min. AWG 14 AWG 14 AWG 8 AWG 6 AWG 1 AWG 1	Max. AWG 8 1/0 3/0 350 kcmil 600 kcmil AWG 8	Cu	Al	
Circular conductor	Number of poles 3P	Conne option	ection ns ② –	3 single terminals	Min. AWG 14 AWG 14 AWG 8 AWG 6 AWG 1	Max. AWG 8 1/0 3/0 350 kcmil 600 kcmil	Cu	Al	
Circular conductor	Number of poles 3P	Conne option	ection ns ② –	3 single terminals	Min. AWG 14 AWG 14 AWG 8 AWG 6 AWG 1 AWG 1	Max. AWG 8 1/0 3/0 350 kcmil 600 kcmil AWG 8	Cu	Al	
Circular conductor	Number of poles 3P	Conne option	ection ns ② –	3 single terminals	Min. AWG 14 AWG 14 AWG 8 AWG 6 AWG 1 AWG 1	Max. AWG 8 1/0 3/0 350 kcmil 600 kcmil AWG 8	Cu	Al	
Circular conductor	Number of poles 3P	Conne option	ection ns ② –	3 single terminals	AWG 14 AWG 14 AWG 8 AWG 6 AWG 1 AWG 14 AWG 14	Max. AWG 8 1/0 3/0 350 kcmil 600 kcmil AWG 8 1/0	Cu	Al	

¹⁾ Al cable only tested according to UL 486 A/B

²⁾ Maximum current-carrying capacity of copper cables 380 A Maximum current-carrying capacity of aluminum cables 310 A

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					3VA55			
		3VA61	3VA53	3VA54	3VA65	3VA57	3VA58	3VA59
3VA51	3VA52	3VA62	3VA63	3VA64	3VA66	3VA67	3VA68	3VA69
3VA9133-0JB10	-	-	-	-	-	-	-	-
-	3VA9233-0JB11	-	-	-	-	-	-	-
-		3VA9143-0JB11	-	-	-	-	-	-
3VA9133-0JB11	-	-	-	-	-	-	-	-
-	3VA9233-0JB12	3VA9243-0JB12	-	-	-	_	-	-
-	-	-	3VA9373-0JB13	-	-	-	-	-
			2)					
	-		-	-	-	-	-	-
-	3VA9234-0JB11		-	-	-	-	-	-
-		3VA9144-0JB11	-	-	-	-	-	-
3VA9134-0JB11	-	-	-	-	-	-	-	-
-	3VA9234-0JB12	3VA9244-0JB12	-	-	-	-	-	-
-	-	-	3VA9374-0JB13	-	-	-	-	-
			2)					
	-	-	-	-	-	-	-	-
-	3VA9233-0JG11	-	-	-	-	-	-	-
	new	21112112 2121						
-	-	3VA9143-0JG11		-	-	-	-	_
			-	-	-	-	-	-
	3VA9233-0JG12			-	-	-	-	-
	-	-	3VA9373-0JG13	_	-	-	-	_
-							_	
3VA9134-0JG10	-		-	-	-	_	_	
3VA9134-0JG10 –	3VA9234-0JG11 new		-	-	-	-	-	-
3VA9134-0JG10	3VA9234-0JG11 new -	- 3VA9144-0JG11	-	- - -	- - -	-	-	-
3VA9134-0JG10 - -	3VA9234-0JG11 new -	- 3VA9144-0JG11	-	- - -	- - -	-	- - -	- - -
3VA9134-0JG10 - -	3VA9234-0JG11 new - -	- 3VA9144-0JG11	- - -	- - - -	- - - -	- - - -	- - - -	- - -

System overview, page 2/20 Siemens LV 18 · 07/2022

Connection technology

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

Mounting base

	Number of poles	Connection options	Scope of supply	Cable cros	s-section, Cu stranded, class B
				Min.	Max.
	3P	0 0 -	3 single terminals	AWG 14	AWG 8
ର ଗ				AWG 14	2/0
				AWG 14	1/0
				AWG 6	350 kcmil
				AWG 1	600 kcmil
	4P	0 0 -	4 single terminals	AWG 14	AWG 8
តា តា តា				AWG 14	2/0
				AWG 14	1/0
				AWG 6	350 kcmil
				AWG 1	600 kcmil
pper circular con		n control wire taps, 1 cab			
	Number of poles	Connection options	Scope of supply		s-section, Cu stranded, class B
				Min.	Max.
222	3P	0 0 -	3 single terminals	AWG 14	AWG 8
ล ลา				AWG 14	2/0
				AWG 14	1/0
				AWG 6	350 kcmil
				AWG 1	600 kcmil
	4P	0 0 -	4 single terminals	AWG 14	AWG 8
តាតា តា				AWG 14	2/0
				AWG 14	1/0
				AWG 6	350 kcmil
				AWG 1	600 kcmil
pper circular con	ductor terminals, 4 ca	ables			
	Number of poles	Connection options	Scope of supply	Cable cros	s-section, Cu stranded, class B
441				Min.	Max.
VENEZ V	3P	0 0 -	3 single terminals	1/0	500 kcmil
Man Hand			long terminal cover	50	240 mm ²
ntrol wire taps fo	or busbars				
		Connection options			
		0			

		3VA53					
			3VA54	3VA55			
		3VA61	3VA63	3VA65	3VA57	3VA58	3VA59
3VA51	3VA52	3VA62	3VA64	3VA66	3VA67	3VA68	3VA69
3VA9133-0JD10	-	-	-	-	-	-	-
3VA9133-0JD11	-	-	-	-	-	-	-
_	3VA9233-0JD11 new	3VA9143-0JD11	-	-	-	-	-
-	3VA9233-0JD12	3VA9243-0JD12	-	-	-	-	-
-	-	-	3VA9373-0JD13	-	-	-	-
3VA9134-0JD10	-	-	-	-	-	-	-
3VA9134-0JD11	-	-	-	-	-	-	-
-	3VA9234-0JD11 new	3VA9144-0JD11	-	-	-	-	-
-	3VA9234-0JD12	3VA9244-0JD12	-	-	-	-	-
-	-	-	3VA9374-0JD13	-	-	-	-
	-	-	-	-	-	-	-
3VA9133-0JK11	-	-	-	-	-	-	-
_	3VA9233-0JK11 new	3VA9143-0JK11	-	-	-	-	-
-	3VA9233-0JK12	3VA9243-0JK12	-	-	-	-	-
	-	-	3VA9373-0JK13	-	-	-	-
3VA9134-0JK10	-	-	-	-	-	-	-
3VA9134-0JK11	-	-	-	-	-	-	-
-	3VA9234-0JK11	3VA9144-0JK11	-	-	-	-	-
-	3VA9234-0JK12	3VA9244-0JK12	-	-	-	-	-
-	-	-	3VA9374-0JK13	-	-	-	-
-	-	-	-	-	3VA9773-0JE43 new	-	-
-	3VA9270	0-0WC00	3VA9470-0WC00	-	-	-	-

System overview, page 2/20

Connection technology



1 For mounting onto the circuit breaker

2 For mounting on plug-in and withdrawable units



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

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

Front bus connectors, with insulating plate, with phase barriers

- 3-pole and 4-pole bus connectors only permitted if used with phase barriers and insulating plate!
- Insulating plate is included in the connection technology scope of supply or can be ordered as a spare part (3VA9...-0W..0).
- Phase barriers are included in the connection technology scope of supply or can be ordered as a spare part (3VA9...-.WA00)



Thase burners are medaded in the connection technology scope of supply of earlier as a spare part (5 v75 w7100).									
Number of poles	Connection options			Scope of supply	Max. tap	width	Max. tap thickness		
3P	0	2	-	3 terminals, 2 phase barriers, 1 insulating plate	22 mm	0.9 inch	8 mm	0.3 inch	
4P	0	9	-	4 terminals, 3 phase barriers, 1 insulating plate	22 mm	0.9 inch	8 mm	0.3 inch	

Front bus connectors, with insulating plate

1P

Number of poles

3-pole and 4-pole bus connectors only permitted if used with phase barriers!

Connection options

 Insulating plate is included in the connection technology scope of supply or can be ordered as a spare part (3VA9...-0W..0). Scope of supply

1 terminal







3P	0	2	-	3 terminals,	32 mm	1.3 inch	10 mm	0.4 inch
				1 insulating plate	40 mm	1.6 inch	12.5 mm	0.5 inch
4P	0	2	-	4 terminals,	32 mm	1.3 inch	10 mm	0.4 inch
		1 insulating plate	40 mm	1.6 inch	12.5 mm	0.5 inch		

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	Conn	Connection options		Scope of supply	Max. tap width	Max. tap thickness		
3P	0	0	-	3 terminals, 2 phase barriers	50.8 mm 2.0 inch	15.9 mm 0.63 inch		
4P	0	0	-	4 terminals, 3 phase barriers	50.8 mm 2.0 inch	15.9 mm 0.63 inch		

Front bus connectors



Scope of supply 3 terminals. 1 terminal cover

The bent connection brackets shown in the picture must be provided by the customer

Max. tap width

22 mm 0.9 inch

Max. tap thickness

8 mm

					3VA55			
		3VA53	3VA61	3VA63	3VA55 3VA65	3VA57	3VA58	3VA59
3VA51	3VA52	3VA53	3VA61	3VA63	3VA66	3VA57 3VA67	3VA36	3VA59 3VA69
JVAJI	3VA32	3VA34	SVAUZ	37704	37400	3VA07	3VA00	3VA09
3VA9133-0QB00	-	-	-	-	-	-	-	-
3VA9134-0QB00	-	-	-	-	-	-	-	-
3VA9131-0QB00	-	-	-	-	-	-	-	-
317.51.51.60								
	3VA9273-0QB00	_	21/40272 00000	_				
	3VA9273-0QB00	- 3VA9473-0QB00	3VA9273-0QB00 -	- 3VA9473-0QB00	-	_	_	_
		3VA9473-0QB00		3VA9473-0QB00				
			21/40274 00000					
-	-	- 3VA9474-0QB00	3VA9274-0QB00 -	- 3VA9474-0QB00	-	_	-	_
_	_	3VA9474-0QB00	_	3VA9474-0QB00	_	_	_	_
-	-	-	-	-	3VA9673-0QB00	-	-	-
-	-	-	-	-	3VA9674-0QB00	-	-	-
						20		
-	-	-	-	-	-	3VA9873-0	QB00 new	-

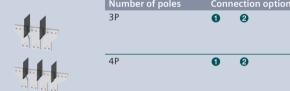
Connection technology



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

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

Front bus connectors, for 100% rated MCCB											
	Number of poles	Connection options	Scope of supply								
	ЗР	0	3 terminals, 1 terminal cover Note: The bent connection brackets shown in the picture must be provided by the customer								
Front bus connector	rs broadened, with insul	ating plate									
			nly permitted if used with insulating plate! chnology scope of supply or can be ordered	d as a spare part (3VA9	WA00).						
	Number of poles	Connection options	Scope of supply	Max. tap width	Max. tap thickness						
	3P	0 0	3 terminals, 1 insulating plate	60 mm 2.4 inch	12.5 mm 0.5 inch						
	4P	0 0	4 terminals, 1 insulating plate	60 mm 2.4 inch	12.5 mm 0.5 inch						
Front bus connectors broadened, with phase barriers											
			nly permitted if used with phase barriers! chnology scope of supply or can be ordered	d as a spare part (3VA9	WA00).						
	Number of poles	Connection options	Scope of supply	Max. tap width	Max. tap thickness						
4.4	3P	0 0	3 terminals,	60 mm 2.4 inch	12.5 mm 0.5 inch						



Number of poles	Connection options		Scope of supply	Max. tap width		Max. tap thickness	
3P	0	0	3 terminals, 2 phase barriers	60 mm	2.4 inch	12.5 mm	0.5 inch
4P	0	0	4 terminals, 3 phase barriers	60 mm	2.4 inch	12.5 mm	0.5 inch

¹⁾ For IEC applications up to 1000 A only. In addition, 3VA9872-0WA00 phase barriers and 3VA9803-0QA00 nut keeper kits are required.

					3VA55			
		3VA53	3VA61	3VA63	3VA65	3VA57	3VA58	3VA59
3VA51	3VA52	3VA54	3VA62	3VA64	3VA66	3VA67	3VA68	3VA69
				_		3VA9873-0Q	NHOO TOWN	
-	_	_	_	_	_	3VA9073-0Q	inoo <u>iiew</u>	_
		_						
				_				
-	-	3VA9473-0QC00	-	3VA9473-0QC00	-	-	-	-
-	-	3VA9474-0QC00	-	3VA9474-0QC00	-	-	-	-
				_				
-	-	-	-	-	3VA9673-0QC00	3VA9603-0QC00 ¹⁾	-	-
						new		
	_	_		_	3VA9674-0QC00	_	_	_
					31,1307 + 00000			



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

Note:

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

Rear connection stu	ıds flat			
	Number of poles	Conn	ection options	Scope of supply
	1P	0	0	1 short connection stud flat
				1 long connection stud flat
	3P	0	0	2 short connection studs flat, 1 long connection stud flat
dodo	4P	0	2	2 short connection studs flat, 2 long connection studs flat
Rear connectors ver	_			
	Number of poles	Conn	ection options	Scope of supply
555	1P	0		1 rear connector
00 00 00	3P	0		3 rear connectors
00 00 00	4P	0		4 rear connectors
Rear connectors ho	rizontal			
	Number of poles	Conn	ection options	Scope of supply
	3P	0		3 rear connectors
HAMA	4P	0		4 rear connectors
Rear connection stu	ıds round			
	Number of poles		ection options	Scope of supply
	1P	0	0	1 short connection stud round
				1 long connection stud round
	3P	0	2	1 long connection stud round, 2 short connection studs round
de de	4P	0	0	2 long connection studs round, 2 short connection studs round

					3VA55			
		3VA53	3VA61	3VA63	3VA65	3VA57	3VA58	3VA59
3VA51	3VA52	3VA54	3VA62	3VA64	3VA66	3VA67	3VA68	3VA69
	3VA9231-0QE10				-	-	-	-
3VA9131-0QE20	3VA9231-0QE20	3VA9471-0QE20	3VA9241-0QE20	3VA9471-0QE20	-	-	-	-
3VA9133-00E0	3VA9233-0QE00	3VA9473-00E00	3VA9243-00E00	3VA9473-00E00	_	_	_	_
377.3.33 0420	, 511.13233 0Q200	3773 773 002200	377.52 13 002.00	3773773002200				
3VA9134-00F0	3VA9234-0QE00	3VA9474-00F00	3VA9244-00F00	3VA9474-00F00	_			_
347.5151 002.00	, 347,523 i oqeoo	347.5171002200	347,5211 0Q200	347.5171002200				
-	-	-	-	-	-	3VA9773-0QE10	-	-
						new		
_	-	-	-	-	3VA9673-0QE00	3VA9773-0QE00	-	-
					new	new		
-	-	-	-	-	3VA9674-0QE00	-	-	-
					new			
-	-	-	-	-	3VA9673-0QE60	-	-	-
					new			
-	-	-	-	-	3VA9674-0QE60	-	-	-
					new			
2)///0424-00544	21/40224-00540	21/40474 00540	21/40244 00542	21/40474 00540				
	3VA9231-0QF10 3VA9231-0QF20				_	-		-
37/13131-00120	3VA9231-0Q120	3VA947 1-0Q120	3VA9241-0Q120	3VA947 1-0Q120	_	_	_	_
3VA9133-0QF00	3VA9233-0QF00	3VA9473-0QF00	3VA9243-0QF00	3VA9473-0QF00	-	-	-	-
3VA9134-00F00	3VA9234-0QF00	3VA9474-00F00	3VA9244-00F00	3VA9474-00F00	_	_	_	-
35131300100	31,323100100	27.0 .7 100130	27.02.1100100	27.0 .7 100130				

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

Mounting base

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

ircular conducto	or terminals, large, 1 ca	able							
realar corradeto	Number of poles		nection	ontions	Scope of supply	Cable cros	s-section	Cu/Al	stranded, class B ¹⁾
	Trainizer or poles				scope of supply	Min.	Max.	Cu	Al
	2P	0	-	-	2 single terminals, 1 extended terminal cover	AWG 4	300 kcmil	•	•
55 	3P	0	_	_	3 single terminals,	AWG 4	300 kcmil	_	•
110					1 extended terminal cover	AWG 2	350 kcmil	•	•
	4P	0	_	_	4 single terminals,	AWG 4	300 kcmil		
					1 extended terminal cover	AWG 2	350 kcmil	•	•
ircular conducto	or terminals, large with	contr	ol wire	taps, 1 cab	le				
	Number of poles	Coni	nection	options	Scope of supply	Cable cros Min.	ss-section Max.	Cu/AL Cu	stranded, class B ¹⁾ Al
	2P	0	-	-	2 single terminals, 1 extended terminal cover	AWG 4	300 kcmil	•	•
humbundhund	3P	0	_	_	3 single terminals,	AWG 4	300 kcmil	•	
					1 extended terminal cover	AWG 2	350 kcmil	•	•
and have been to the same of t	4P	0	-	-	4 single terminals,	AWG 4	300 kcmil	•	
อออออ					1 extended terminal cover	AWG 2	350 kcmil	•	•

¹⁾ Al cable only tested according to UL 486 A/B

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					3VA55			
		3VA53	3VA61	3VA63	3VA65	3VA57	3VA58	3VA59
3VA51	3VA52	3VA54	3VA62	3VA64	3VA66	3VA67	3VA68	3VA69
3VA9132-0JJ12	-	-	-	-	-	-	-	-
3VA9133-0JJ12	-	-	-	-	-	-	-	-
	3VA9233-0JJ13	-	3VA9243-0JJ13	-	-	-	-	-
3VA9134-0JJ12	-	-	-	-	-	-	-	-
-	3VA9234-0JJ13	-	3VA9244-0JJ13	-	-	-	-	-
3VA9132-0JC12	-	-	-	-	-	-	-	-
3VA9133-0JC12	-	-	-	-	-	-	-	-
	3VA9233-0JC13	-	3VA9243-0JC13	-	-	-	-	-
3VA9134-0JC12		-	-	-	-	-	-	-
-	3VA9234-0JC13	-	3VA9244-0JC13	-	-	-	-	-

For mounting onto the circuit breaker

For mounting on plug-in and withdrawable units

Mounting bas

lar conductor terminals with	control wire taps, 2 cables						
	ooles Connection options	Scope of supply	Cable cross-se	oction	Cu/AL	stranded, class B ¹⁾	
Number of p	Joies Confidention options	acope of supply	Min.	Max.	Cu/AL	Al	
3P	0	3 single terminals,	AWG 4	300 kcmil	- Cu		
		1 extended terminal cover	2/0	600 kcmil		•	
		3 single terminals,	400 kcmil	750 kcmil		_	
		1 intermediate	250 kcmil or	750 kcmil			
		terminal cover	2× 250 kcmil	7 50 Kemii	_	_	
3P	0	3 single terminals, 1 short terminal cover	4/0	600 kcmil	•	•	
4P	0	4 single terminals,	AWG 4	300 kcmil		•	
		1 extended terminal cover	2/0	600 kcmil			
		4 single terminals,	400 kcmil	750 kcmil		-	
		1 intermediate terminal cover	250 kcmil or 2× 250 kcmil	750 kcmil	•	•	
4P	0	4 single terminals, 1 short terminal cover	4/0	600 kcmil	•	•	
r conductor terminals with o	control wire taps, 2 cables						
Number of p	poles Connection options	Scope of supply	Cable cross-se			stranded, class B ¹⁾	
			Min.	Max.	Cu	Al	
Number of p	Ooles Connection options	3 single terminals,	Min. AWG 4	Max. 300 kcmil	Cu	Al	
3P		3 single terminals, 1 extended terminal cover	Min. AWG 4 2/0	Max. 300 kcmil 600 kcmil	Cu	Al	
3P		3 single terminals, 1 extended terminal cover 3 single terminals,	Min. AWG 4 2/0 400 kcmil	Max. 300 kcmil 600 kcmil 750 kcmil	Cu IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	AI -	
		3 single terminals, 1 extended terminal cover	Min. AWG 4 2/0	Max. 300 kcmil 600 kcmil	Cu	Al	
		3 single terminals, 1 extended terminal cover 3 single terminals,	Min. AWG 4 2/0 400 kcmil 250 kcmil or	Max. 300 kcmil 600 kcmil 750 kcmil	Cu IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	AI -	
3P	0	3 single terminals, 1 extended terminal cover 3 single terminals, 1 intermediate terminal cover 3 single terminals,	Min. AWG 4 2/0 400 kcmil 250 kcmil or 2× 250 kcmil	Max. 300 kcmil 600 kcmil 750 kcmil 750 kcmil	Cu	AI	
3P	0	3 single terminals, 1 extended terminal cover 3 single terminals, 1 intermediate terminal cover 3 single terminals, 1 short terminal cover	Min. AWG 4 2/0 400 kcmil 250 kcmil or 2× 250 kcmil 4/0 AWG 4	Max. 300 kcmil 600 kcmil 750 kcmil 750 kcmil 600 kcmil	Cu	AI	
3P 3P	0	3 single terminals, 1 extended terminal cover 3 single terminals, 1 intermediate terminal cover 3 single terminals, 1 short terminal cover 4 single terminals, 1 extended terminal cover	Min. AWG 4 2/0 400 kcmil 250 kcmil or 2× 250 kcmil 4/0 AWG 4 2/0	Max. 300 kcmil 600 kcmil 750 kcmil 750 kcmil 600 kcmil	Cu	AI	
3P 3P	0	3 single terminals, 1 extended terminal cover 3 single terminals, 1 intermediate terminal cover 3 single terminals, 1 short terminal cover 4 single terminals, 1 extended terminal cover 4 single terminals,	Min. AWG 4 2/0 400 kcmil 250 kcmil or 2× 250 kcmil 4/0 AWG 4	Max. 300 kcmil 600 kcmil 750 kcmil 600 kcmil 600 kcmil 300 kcmil 600 kcmil	Cu IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	AI	
3P 3P 4P	0	3 single terminals, 1 extended terminal cover 3 single terminals, 1 intermediate terminal cover 3 single terminals, 1 short terminal cover 4 single terminals, 1 extended terminal cover	Min. AWG 4 2/0 400 kcmil 250 kcmil or 2× 250 kcmil 4/0 AWG 4 2/0	Max. 300 kcmil 600 kcmil 750 kcmil 750 kcmil 600 kcmil	Cu	AI	
3P 3P 4P	0	3 single terminals, 1 extended terminal cover 3 single terminals, 1 intermediate terminal cover 3 single terminals, 1 short terminal cover 4 single terminals, 1 extended terminal cover 4 single terminals, 1 intermediate	Min. AWG 4 2/0 400 kcmil 250 kcmil or 2× 250 kcmil 4/0 AWG 4 2/0 400 kcmil 250 kcmil or	Max. 300 kcmil 600 kcmil 750 kcmil 600 kcmil 600 kcmil 300 kcmil 600 kcmil	Cu	AI	
3P 3P 4P	0	3 single terminals, 1 extended terminal cover 3 single terminals, 1 intermediate terminal cover 3 single terminals, 1 short terminal cover 4 single terminals, 1 extended terminal cover 4 single terminals, 1 intermediate terminal cover	AWG 4 2/0 400 kcmil 250 kcmil or 2× 250 kcmil 4/0 AWG 4 2/0 400 kcmil 250 kcmil or 2× 250 kcmil	Max. 300 kcmil 600 kcmil 750 kcmil 600 kcmil 600 kcmil 300 kcmil 600 kcmil 750 kcmil	Cu	AI	

 $^{^{\}scriptscriptstyle{1)}}\,$ Al cable only tested according to UL 486 A/B

²⁾ Up to rated current 400 A

					3VA55			
		3VA53	3VA61	3VA63	3VA65	3VA57	3VA58	3VA59
3VA51	3VA52	3VA54	3VA62	3VA64	3VA66	3VA67	3VA68	3VA69
								_
-	31/40233-01122	-	31/402/13-01122	_	_	_	_	_
_		3VA9473-0JJ23		3VA9473-0JJ23	_	_		
_	-	-	-		3VA9673-0JJ24	_	-	_
-	-	3VA9373-0JJ24 ²⁾	-	3VA9373-0JJ24 ²⁾ new	-	-	-	-
-	-	-	-	-	3VA9573-0JB23	-	-	-
-		-			-	-	-	-
-			-	3VA9474-0JJ23	-	-	-	-
-	-	-	-	-	3VA9674-0JJ24	-	-	-
-	-	3VA9374-0JJ24 ²⁾ new	-	3VA9374-0JJ24 ²⁾ new	-	-	-	-
_	-	-	-	-	3VA9574-0JB23	-	-	-
-	3VA9233-0JC22	-	3VA9243-0JC22	-	-	-	-	-
-	-	3VA9473-0JC23	-			-	-	-
-	-	-	-	-		-	-	-
-	-	3VA9373-0JC24 ²⁾ new	-	3VA9373-0JC24 ²⁾ new	-	-	-	-
-	-	-	-	-	3VA9573-0JG23	-	-	-
-	3VA9234-0JC22	-	3VA9244-0JC22	-	-	-	-	-
-			-	3VA9474-0JC23	-	-	-	-
-	-	-	-	-	3VA9674-0JC24	-	-	-
-	-	3VA9374-0JC24 ²⁾ new	-	3VA9374-0JC24 ²⁾ new	-	-	-	-
-	-	-	-	-	3VA9574-0JG23	-	-	-

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

Mounting base

Circular conductor to										
	Number of	Connec	ction opt	ions	Scope of supply	Cable cross	-section	Cu/AL	stranded, class B 1)	
	poles					Min.	Max.	Cu	Al	
	2P	0	-	-	3 single terminals,	500 kcmil	750 kcmil		•	
					1 long terminal cover	240 mm ²	300 mm ²			
000										
0										
	3P	0	-	-	3 single terminals,	4/0	400 kcmil	•	•	
					1 short terminal cover					
Sign on					3 single terminals,	500 kcmil	750 kcmil	•	•	
					1 extended terminal					
					cover					
					3 single terminals,	500 kcmil	750 kcmil	•	•	
					1 long terminal cover	240 mm ²	300 mm ²			
	4P	0	_	_	4 single terminals, 1 short terminal cover	4/0	400 kcmil	•	•	
ALC: C						F00 'I	7501 1			
					4 single terminals, 1 extended terminal	500 kcmil	750 kcmil	•	•	
Difference of the Control of the Con					cover					
					COVCI					
Circular conductor to	erminals with co	ntrol wire	e tans 3	cables						
circular conductor c	Number of		ction opt		Scope of supply	Cable cross	-section	Cu/Al	stranded, class B 1)	
	poles	Connec	ction opt	10113	acope of supply	Min.	Max.	Cu/AL	Al	
					2 sincela tamain da					
	3P	0	_	_	3 single terminals, 1 short terminal cover	4/0	400 kcmil	•	•	
					1 SHOLL TELLINING COVEL					
an an an										
.										
	3P	0	_	_	3 single terminals,	500 kcmil	750 kcmil			
					1 extended terminal					
					cover					
50 50 50										
	4P	0	-	-	4 single terminals,	4/0	400 kcmil	•	•	
					1 short terminal cover					
គានានានា										
- chalded										
	4P	0	-	-	4 single terminals,	500 kcmil	750 kcmil	•	•	
					1 extended terminal					
					cover					

¹⁾ Al cable only tested according to UL 486 A/B

					3VA55			
		3VA53	3VA61	3VA63	3VA65	3VA57	3VA58	3VA59
3VA51	3VA52	3VA54	3VA62	3VA64	3VA66	3VA67	3VA68	3VA69
-	-	-	-	-	-	3VA9772-0JJ34	-	-
						new		
_	_	_	_	_	3VA9673-0JB32	_	_	_
-	-	-	-	-	3VA9673-0JJ34	-	-	-
_	_	_	_	_	_	3VA9773-0JJ34	_	
	_					new		_
_	-	-	-	-	3VA9674-0JB32	-	-	-
-	-	-	-	-	3VA9674-0JJ34	-	-	-
-	-	-	-	-	3VA9673-0JG32	-	-	-
_	-	-	-	-	3VA9673-0JC34	-	-	-
-	-	-	-	-	3VA9674-0JG32	-	-	-
-	-	-	-	-	3VA9674-0JC34	-	-	-

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

Mounting base

Circular conductor t	erminals, 4 cab	les						
	Number of	Connection options	Scope of supply	Cable cross	s-section	Cu/AL:	stranded, class B ¹⁾	
	poles			Min.	Max.	Cu	Al	
	2P	0	2 single terminals, 1 long terminal cover	1/0 50 mm ²	500 kcmil 240 mm²	•	•	
111	3P	0	3 single terminals, 1 intermediate terminal cover	4/0	500 kcmil	•	•	
and of			3 single terminals, 1 extended terminal cover	4/0	600 kcmil	•	•	
100 100			3 single terminals, 1 long terminal cover	1/0 50 mm ²	500 kcmil 240 mm²	•	•	
555	4P	0	4 single terminals, 1 intermediate terminal cover	4/0	500 kcmil	•	•	
· · · · · · · · · · · · · · · · · · ·			4 single terminals, 1 extended terminal cover	4/0	600 kcmil	•	•	
Circular conductor t	erminals with c	ontrol wire taps, 4 cables						
	Number of	Connection options	Scope of supply	Cable cross	s-section	Cu/AL:	stranded, class B ¹⁾	
	Number of poles	Connection options	Scope of supply	Cable cross Min.	s-section Max.	Cu/AL : Cu	stranded, class B ¹⁾ Al	
and the second		Connection options	3 single terminals, 1 intermediate terminal cover					
THE STATE OF THE S	poles		3 single terminals, 1 intermediate	Min.	Max.	Cu	Al	
	poles		3 single terminals, 1 intermediate terminal cover 3 single terminals, 1 extended terminal	Min. 4/0	Max. 500 kcmil	Cu	AI	
	poles		3 single terminals, 1 intermediate terminal cover 3 single terminals, 1 extended terminal cover 3 single terminals,	Min. 4/0 4/0	Max. 500 kcmil 600 kcmil	Cu •	Al •	
	poles 3P	0	3 single terminals, 1 intermediate terminal cover 3 single terminals, 1 extended terminal cover 3 single terminals, 1 long terminal cover 4 single terminals, 1 intermediate	Min. 4/0 4/0 1/0 50 mm ²	Max. 500 kcmil 600 kcmil 500 kcmil 240 mm ²	Cu •	Al	
Circular conductor t	poles 3P	0	3 single terminals, 1 intermediate terminal cover 3 single terminals, 1 extended terminal cover 3 single terminals, 1 long terminal cover 4 single terminals, 1 intermediate terminal cover 4 single terminals, 1 extended terminals,	Min. 4/0 4/0 1/0 50 mm ²	Max. 500 kcmil 600 kcmil 500 kcmil 240 mm²	Cu •	Al	
Circular conductor to	poles 3P	0	3 single terminals, 1 intermediate terminal cover 3 single terminals, 1 extended terminal cover 3 single terminals, 1 long terminal cover 4 single terminals, 1 intermediate terminal cover 4 single terminals, 1 extended terminals,	Min. 4/0 4/0 1/0 50 mm ²	Max. 500 kcmil 600 kcmil 500 kcmil 240 mm ² 500 kcmil	Cu	Al	

¹⁾ Al cable only tested according to UL 486 A/B

					3VA55			
		3VA53	3VA61	3VA63	3VA65	3VA57	3VA58	3VA59
3VA51	3VA52	3VA54	3VA62	3VA64	3VA66	3VA67	3VA68	3VA69
-	-	-	-	-	-	3VA9772-0JJ43	-	-
						new		
	_	_	_	_	3VA9673-0JJ43	_	_	_
					3 47 (3 67 3 633 13			
-	-	-	-	-	3VA9673-0JJ44	-	-	-
					new			
_	_					21/40772 01142	_	
-	-	-	-	-	-	3VA9773-0JJ43 new	_	-
						ile.		
-	-	-	-	-	3VA9674-0JJ43	-	-	-
	_		_		3VA9674-0JJ44			
					new			
-	-	-	-	-	3VA9673-0JC43	-	-	-
_	_	_	_	_	3VA9673-0JC44	_	_	_
					new			
-	-	-	-	-	-	3VA9773-0JC43	-	-
						new		
	_	_	_	_	3VA9674-0JC43	_	_	_
					3477307 1 030 13			
-	-	-	-	-	3VA9674-0JC44	-	-	-
					new			
_	_	_	_	-	_	3VA9773-0JM43	_	_
						new		



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

Circular conductor terminals for mounting base, for UL applications only

- For more information, see operating instructions L1V30821788001 at www.siemens.com/lowvoltage/manuals
- Scope of supply:
 - 1 single terminal

 - 1 mounting screw kit
 Individually packed

- individually	у раско	-u					
Connection	Conn	ection	options	Cable cross-	section	Cu/AL st	tranded, class B ¹⁾
				Min.	Max.	Cu	Al
4 cables	-	-	©	600 kcmil	750 kcmil	•	•
5 cables	-	-	⊗	300 kcmil	600 kcmil	•	•
6 cables	-	-	8	300 kcmil	600 kcmil	•	•

750 kcmil

300 mm²

THE THE PART OF	Number of poles	Connection options	Scope of supply	Cable cross- Min.
	3P	0	3 single terminals 3 mounting screws	1/0 50 mm²

					3VA55			
		3VA53	3VA61	3VA63	3VA65	3VA57	3VA58	3VA59
3VA51	3VA52	3VA54	3VA62	3VA64	3VA66	3VA67	3VA68	3VA69
_		_		_		_	_	_
_	_	_	_	_	_	_	3VA9771-0JJ44	_
							new	
-	-	-	-	-	-	-	3VA9771-0JJ53	-
							new	
-	-	-	-	-	-	-	3VA9871-0	JJJ63 <mark>new</mark>
-	-	-	-	-	-	-	3VA9773-0JJ64	-
							new	

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For mounting onto the circuit breaker

For mounting on plug-in and withdrawable units

Mounting bas

Circular conductor to	erminals, 6 cables	5					
	Number of	Connection		Scope of supply	Cable cross-	section	Cu/AL stranded, class B 1)
	poles	options			Min.	Max.	Cu Al
	2P	0 -	-	2 single terminals, 1 extended terminal cover	AWG 14	AWG 2	• •
	3P	0 -	-	3 single terminals, 1 extended terminal cover	AWG 14	AWG 2	• •
	4P	0 -	-	4 single terminals, 1 extended terminal cover	AWG 14	AWG 2	• •
Copper circular cond	luctor terminals,	2 cables					
	Number of poles	Connection options		Scope of supply	Cable cross-	section, Cu stranded, clas Max.	ss B
	3P	0 -	-	3 single terminals, 1 extended terminal cover	2/0	600 kcmil	
	4P	0 -	-	4 single terminals, 1 extended terminal cover	2/0	600 kcmil	
Copper circular cond	luctor terminals v	with control w	rire taps, 2 ca	bles			
	Number of poles	Connection options		Scope of supply	Cable cross-	section, Cu stranded, cla Max.	ss B
	3P	0 -	-	3 single terminals, 1 extended terminal cover	2/0	600 kcmil	
	4P	0 -	-	4 single terminals, 1 extended terminal cover	2/0	600 kcmil	

¹⁾ Al cable only tested according to UL 486 A/B

		3VA53	3VA61	3VA63	3VA65	3VA57	3VA58	3VA59
3VA51	3VA52	3VA54	3VA62	3VA64	3VA66	3VA67	3VA68	3VA69
3VA9132-0JF60	-	-	-	-	-	-	-	-
3\/A9133-NIF6N	3VA9233-0JF60	_	3\/A9243-01F60	3VA9373-0JF60		_	_	_
347(3133 031 00	347(3233 031 00		347(3243 031 00	347(3373 031 00				
3VA9134-0JF60	3VA9234-0JF60	-	3VA9244-0JF60	3VA9374-0JF60	-	-	-	-
-	-	3VA9473-0JE23	-	3VA9473-0JE23	-	-	-	-
-	-	3VA9474-0JE23	-	3VA9474-0JE23	-	-	-	-
-	-	3VA9473-0JL23	-	3VA9473-0JL23	-	-	-	-
-	-	3VA9474-0JL23	-	3VA9474-0JL23	-	-	-	-

For mounting onto the circuit breaker

For mounting on plug-in and withdrawable units

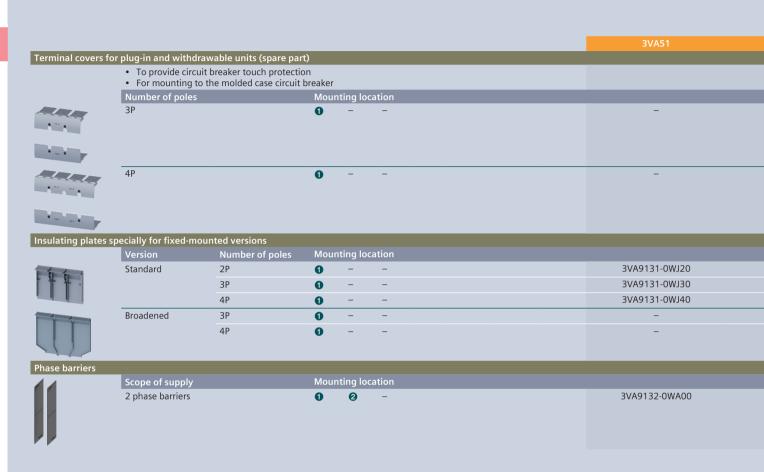
Mounting base

III ar cor			.: 5 11			3VA51
ulai Coi	_	h auxiliary conductor co				
	Number of poles	Connection options	Scope of supply	Cable cross class B	s-section, Cu stranded,	
				Min.	Max.	
	3P	0	3 single terminals	4/0	400 kcmil	_
	31	•	1 short terminal cover	470	400 KCIIII	
	4P	0	4 single terminals	4/0	400 kcmil	-
			1 short terminal cover			
ular cor	nductor terminals wit	h auxiliary conductor co	onnection, 4 cables			
	Number of poles	Connection options		Cable cross	s-section, Cu stranded,	
				class B		
				Min.	Max.	
	3P	0	3 single terminals	4/0	500 kcmil	-
			1 intermediate terminal cover			
	4P	0	4 single terminals	4/0	500 kcmil	
			1 intermediate	.,,0	500 Kannii	
K			terminal cover			
ular cor	nductor terminals for	mounting base, for UL o	only			
	Connection	Connection options		Cable cross	s-section, Cu stranded,	
				class B		
4				Min.	Max.	
)	5 cables	3	1 single terminal	300 kcmil	600 kcmil	-
waya fa	" five d meanwheat while	g-in and withdrawable ι	1 mounting screw kit			
vers io	Version	Number of poles	Mounting location			
	Short	1P	1			3VA9131-0WD10
3	5.15.1					51715151 011510
		3P	a – –			3VA9131-0WD30
		3P 4P	0			3VA9131-0WD30
		3P 4P	0			3VA9131-0WD30 3VA9131-0WD40
		4P	0			
	Intermediate 1)	4P 3P	0			
1	Intermediate ¹⁾	4P	0			3VA9131-0WD40
	Intermediate 1)	4P 3P	0			3VA9131-0WD40
		4P 3P 4P	0 0 0			3VA9131-0WD40 - -
		4P 3P 4P 2P	0 0 0			3VA9131-0WD40 - - 3VA9131-0WF20
		4P 3P 4P 2P	0 0 0			3VA9131-0WD40 - - 3VA9131-0WF20
	Extended	3P 4P 2P 3P 4P	0 0 0 0			3VA9131-0WD40 3VA9131-0WF20 3VA9131-0WF30
		3P 4P 2P 3P 4P	0 0 0 0 0			3VA9131-0WD40 3VA9131-0WF20 3VA9131-0WF30
	Extended	3P 4P 2P 3P 4P	0 0 0 0			3VA9131-0WD40 3VA9131-0WF20 3VA9131-0WF30
	Extended	3P 4P 2P 3P 4P	0 0 0 0 0			3VA9131-0WD40 3VA9131-0WF20 3VA9131-0WF30
	Extended Broadened	3P 4P 2P 3P 4P 3P 4P	0 0 0 0 0 0			3VA9131-0WD40 3VA9131-0WF20 3VA9131-0WF30 3VA9131-0WF40
	Extended	3P 4P 2P 3P 4P	0 0 0 0 0			3VA9131-0WD40 3VA9131-0WF20 3VA9131-0WF30
	Extended Broadened	3P 4P 2P 3P 4P 3P 4P	0 0 0 0 0 0			3VA9131-0WD40 3VA9131-0WF20 3VA9131-0WF30 3VA9131-0WF40

¹⁾ Suitable for circular conductor terminals 2/3/4 cables

				3VA55			
	3VA61	3VA53	3VA63	3VA65	3VA57	3VA58	3VA59
3VA52	3VA62	3VA54	3VA64	3VA66	3VA67	3VA68	3VA69
-	-	-	-	3VA9673-0JK32 new	-	-	-
-	-	-	-	3VA9674-0JK32 new	-	-	-
-	-	-	-	3VA9673-0JL43	3VA9773-0JE43	-	-
				new	new		
-	-	-	-	3VA9674-0JL43 new	-	-	-
-	-	-	-	-	-	3VA9871-0	DJE53 <mark>new</mark>
_	-	_	_	-	_	-	-
3VA927	1-0WD30	3VA947	1-0WD30	3VA9671-0WD30	3	3VA9871-0WD30 <mark>nev</mark>	<u></u>
3VA927	1-0WD40	3VA947	1-0WD40	3VA9671-0WD40	-	-	-
-	-	-	-	3VA9671-0WE30	-	-	-
-	-	-	-	3VA9671-0WE40	-	-	-
-	-	-	-	-	-	-	-
3VA927	1-0WF30	3VA947	1-0WF30	3VA9671-0WF30 new	-	-	-
3VA927	1-0WF40	3VA947	1-0WF40	3VA9671-0WF40 new	-	-	-
-	-	3VA947	1-0WG30	-	-	-	-
-	-	3VA947	1-0WG40	-	-	-	-
	_	_	_	_	3VA9771-0WP30	_	_
					new		
<u> </u>	-	-	<u> </u>	-	3VA9871-0		<u> </u>
_			_		3VA9871-0	vvi 30 <u>iiew</u>	





				3VA55			
	3VA61	3VA53	3VA63	3VA65	3VA57	3VA58	3VA59
3VA52	3VA62	3VA54	3VA64	3VA66	3VA67	3VA68	3VA69
			_		_		_
-	3VA9143-0KB01	-	3VA9343-0KB01	-	-	-	-
-	3VA9144-0KB01	-	3VA9344-0KB01	-	-	-	-
-	-	-	-	-	-	-	-
3VA927	'1-0WJ30	3VA947	1-0WJ30	-	-	-	-
3VA927	'1-0WJ40	3VA947	1-0WJ40	-	-	-	-
-	-	3VA9471	1-0WK30	-	-	-	-
-	-	3VA9471	I-0WK40	-	-	-	-
3VA927	2-0WA00	3VA9472	2-0WA00	3VA9672-0WA00	3	3VA9872-0WA00 new	

Plug-in and withdrawable technology

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

Thanks to plug-in and withdrawable technology:

Molded case circuit breakers can be replaced quickly and easily for overhauls or servicing

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

In addition, withdrawable technology offers:

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

Note:

Plug-in and withdrawable technology are only available for the 3VA6 molded case circuit breaker with electronic trip units. The plug-in and draw-out sockets of circuit breaker sizes 250 A to 400 A (3VA61, 3VA62 and 3VA63) can be equipped with all available terminal types.

For circuit breaker size 600 A (3VA64), special plug-in and withdrawable bases are available. Broadened connecting bars are supplied for this purpose. For temperature reasons, only this connection technology can be used for this size of circuit breaker. 100% rated breakers can never be used with plug-in or withdrawable technology for temperature reasons.

		3VA61		
		3VA62	3VA63	3VA64
Withdrawable ι	init, complete kits			
dad	Scope of supply: Draw-out socket Withdrawable unit, conversion kit Mounting screw kit Note: The crank for the withdrawable unit must be ordered separately.			
	Number of poles			
	3P	3VA9143-0KD00	3VA9343-0KD00	3VA9443-0KD00
	4P	3VA9144-0KD00	3VA9344-0KD00	3VA9444-0KD00
Withdrawable ι	inits, conversion kits			
ddd	Scope of supply: Screw-fastened terminal covers for molded case circuit breakers Side panels Plug-in contacts Cable cages Autotrip plunger			
	Number of poles			
	3P	3VA9143-0KD10	3VA934	3-0KD10
	4P	3VA9144-0KD10	3VA934	4-0KD10
Plug-in units, co	omplete kits			
	Scope of supply: Plug-in base Plug-in unit, conversion kit Mounting screw kit			
	Number of poles			
वंवव	3P	3VA9143-0KP00	3VA9343-0KP00	3VA9443-0KP00
	4P	3VA9144-0KP00	3VA9344-0KP00	3VA9444-0KP00

Plug-in units, conversion kits Scope of supply: Screw-fastened terminal covers for molded case circuit breakers Plug-in contacts Cable cages Autotrip plunger Number of poles 3P 3VA9143-0KP10 3VA9144-0KP10 3VA9344-0KP10 Cable cages for plug-in/withdrawable units	
Plug-in units, conversion kits Scope of supply: Screw-fastened terminal covers for molded case circuit breakers Plug-in contacts Cable cages Autotrip plunger Number of poles Plug-in contacts Supply: Suppl	
Scope of supply:	A64
- Screw-fastened terminal covers for molded case circuit breakers - Plug-in contacts - Cable cages - Autotrip plunger Number of poles 3P 3VA9143-0KP10 3VA9343-0KP10 4P 3VA9144-0KP10 3VA9344-0KP10 Cable cages for plug-in/withdrawable units	
3P 3VA9143-0KP10 3VA9343-0KP10 4P 3VA9144-0KP10 3VA9344-0KP10 Cable cages for plug-in/withdrawable units	
4P 3VA9144-0KP10 3VA9344-0KP10 Cable cages for plug-in/withdrawable units	
Cable cages for plug-in/withdrawable units	
Cable double and for a solding of the provinced solding forms the	
California for a serial and a false and the serial and the forms the	
Cable duct for routing of the required cables from the internal accessories on the back of the circuit breaker	
Number of poles	
3P/4P 3VA9167-0KB02	-
Door feedthroughs	
Number of poles	
3P/4P 3VA9147-0KT00 3VA9347-0KT00	
Spare part autotrip plunger	
Version Version	
Plug-in unit 3VA9267-0KP81 3VA9457-0KP81	
Withdrawable unit 3VA9267-0KD81 3VA9457-0KD81	

Accessories

Communication links	for withdrawable unit		
	Scope of supply		Article No.
	Set of cables with three s 3VA9987-0KC10 connect	special position signaling switches, ting cables	3VA9977-0KC00
ttt,			
Position signaling swi	tches for withdrawable un	it and plug-in unit	
And the second			Article No.
			3VA9977-0KB00
Connecting cables			
	Use		Article No.
	Connection of position si	gnaling switches for communication with COM060	3VA9987-0KC10
Cranks for withdrawa	ble units		
	Version	Scope of supply	Article No.
	Insulated	Including crank holder	3VA9987-0KD81
Auxiliary circuit conne	ectors		
	Each auxiliary circuit c	onnector is designed for 4 cables.	
	Version		Article No.
14	For all withdrawable unit	is	3VA9977-0KD80
-	For all plug-in units		3VA9977-0KP80

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-ul-configurator

Cylinder locks



- Scope of supply: 1 lock with 2 keys
- For locking or interlocking
- For installation in all rotary operators with a shaft stub
- · For mounting in the adapter kit for the accessories compartment

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

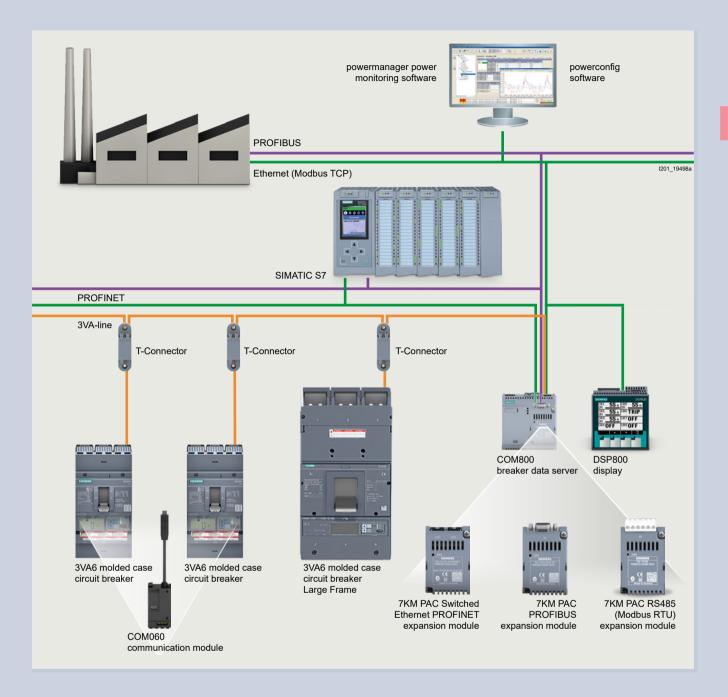
Cylinder lock adapters for withdrawable units



- To prevent unauthorized withdrawal or insertion of the circuit breaker into the withdrawable unit
- Circuit breaker can be locked in the CONNECT, TEST and DISCONNECT positions

Use Article No.
For fitting a cylinder lock in the right-hand 3VA9970-0LF40 side wall of the withdrawable unit

Communication



Communication

Measurement function 1)			ETU 5-series	ETU 8-series	Display in ETU	Display DSP800	Communication COM800/ COM100
Current							
Phase and neutral conductor currents	I ₁ , I ₂ , I ₃ , I _N	Α	•				
Residual current to ground	$I_{\rm g}$	Α	•	•			-
Phase with highest load		Α	•				•
Average value over the three phase currents	$I_{\text{leading axis}} = (I_1 + I_2 + I_3)/3$	Α	-	•	-		•
Asymmetry of the phase currents	I _{nba}	%	-		-		•
THD of the 3 phases	THDI ₁ , THDI ₂ , THDI ₃	%	-		-		•
Voltage							
Phase voltages incl. average value	$U_{12}, U_{23}, U_{31}, U_{\rm phavg}$	V	-				
Voltages to N conductor incl. average value	U_{1N} , U_{2N} , U_{3N} , U_{Navg}	V	-		-		
Voltage unbalance		%	-		-		
THD phase/phase and phase/N	THDI ₁ , THDI ₂ , THDI ₃	%	-		-		
Power							
Active power, total and per phase	P ₁ , P ₂ , P ₃ , P _{tot}	kW	-		\Box (P_{tot})		•
Apparent power, total and per phase	S ₁ , S ₂ , S ₃ , S _{tot}	kVA	-		-		
Reactive power, total and per phase	$Q_1, Q_2, Q_3, Q_{\text{tot}}$	kVAr	-				
Power factor of the fundamental	$P_{\rm F1}, P_{\rm F2}, P_{\rm F3}, P_{\rm Favg}$		-		□ (P _{Favg})		
Energy							
Active energy, infeed and feedback	E _p	kWh	-				
Reactive energy, infeed and feedback	E _q	kVArh	-		-		•
Apparent energy	E _s	kVAh	-		-		
Frequency							
Present frequency	f	Hz	-				•
Maximum pointer function							
Min./max. current, voltage, power	With time stamp	-	-	-	-	-	•
Condition monitoring 2)							
Operating cycles counter	ON/OFF cycle				-	-	•
Operating hours		h	•		-	-	
Trip counter	Differentiated in trip reasons		•	•	-	-	•
Health indicator 3)	Incl. contact state	%	•			-	•
Remaining life time ³⁾		Time			-	-	-

[■] Available □ Displayable - Not available

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 and COM800/100 required. Not for the 3VA57, 3VA58, 3VA59, 3VA67, 3VA68 and 3VA69

			3VA63	
			3VA64	3VA67
		3VA61	3VA65	3VA68
		3VA62	3VA66	3VA69
COM060 communica	tion modules			
	 For mounting in the right-hand accessories compartment of the 3VA6 molded case circuit breaker (including ETU power supply) Including a T-connector 			
	Use			
	Communication to the COM800/COM100 breaker data server via 3VA line	3VA9177-0TB10	3VA9377-0TB10	Already integrated
24 V modules				
H H	24 V DCFor mounting in the right-hand accessories compartment of the 3VA6			
	Use			
	Optional energy supply for the ETU, also includes continuous operation of the ETU display and the measurement function of the ETU 8-series	3VA9177-0TB50	3VA9377-0TB50	Already integrated

Breaker data server

COM800 breaker data servers



ersion Article No

Central communication module for connection of up to eight 3VA6 molded case circuit breakers via the 3VA line, Ethernet 10/100 Mbps interface, module socket for inserting an optional PROFIBUS DP, PROFINET or RS485 module, 2 terminating resistors

3VA9977-0TA10

COM100 breaker data servers



Version Article No.

Central communication module for connection of a 3VA6 molded case circuit breaker via the 3VA line, Ethernet 10/100 Mbps interface, module socket for inserting an optional PROFIBUS DP, PROFINET or RS485 module, 2 terminating resistors

3VA9977-0TA20

7KM PAC PROFIBUS DP expansion modules



Use Article No.

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

7KM9300-0AB01-0AA0

7KM PAC Switched Ethernet PROFINET expansion modules



Article No.

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

7KM9300-0AE02-0AA0

7KM PAC RS485 Modbus RTU expansion modules



Se Article No.

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

7KM9300-0AM00-0AA0

Communication

Accessories for communication

T-connectors (spare	a nart)		
r connectors (spare	Use		Article No.
CE FO	Provides a stub connection to the COM060 and loops through to the next circui	t breaker	3VA9987-0TG10
	Including connection adapter for mounting on the 3VA6 circuit breaker enclosu		311,3307 31313
DIN-rail adapters			
	Use		Article No.
mmi	For snapping the T-connector onto a DIN rail		3VA9987-0TG11
Prefabricated conne	ecting cables, T-connector – T-connector or T-connector – COM800/COM100		_
	Length		Article No.
	0.4 m		3VA9987-0TC10
	1 m		3VA9987-0TC20
	2 m		3VA9987-0TC30
	4 m		3VA9987-0TC40
Prefabricated conn	ecting cables for extending the COM060 – T-connector stub connection		
	Length		Article No.
	0.4 m		3VA9987-0TF20
	0.8 m	3VA9987-0TF10	
m			
Additional bus term	ninating recistors		
Additional bus term			Article No.
(vost)			3VA9987-0TE10
			5.7.5567 61216
Voltage tap to exte	rnal N conductors		
voltage tap to exte	Use		Article No.
	Cable for connection of the star point for the measurement function of the 8-se	ries FTII length 1 5 m	3VA9987-0UC10
5	casic for connection of the star point for the incasarement function of the o se	nes 210, lengar 1.5 m	3773367 60616
5			
External current tra	nsformers as straight-through transformers		
	Use	Rated current I _n	Article No.
	Connection of an external current transformer for the neutral conductor	25 150 A	3VA9077-0NA10
	for 3-pole 3VA6 molded case circuit breakers for 5-series and 8-series ETUs (ETU850, ETU856, ETU860), including connecting cables	160 350 A	3VA9177-0NA10
	(E10630, E10630, E10600), including connecting cables	400 600 A	3VA9377-0NA10
		600 1200 A	3VA9677-0NA10
		1600/2000 A	3VA9877-0NA10 new
		1000/2000 A	SVASO77-UNATO HEW

Display

Display DSP800 for connection to COM800/COM100



For displaying status, measured values and parameters of up to 8 3VA6 molded case circuit breakers.

Connection to the COM800/COM100 via Ethernet for displaying the information of the COM800/COM100 and the connected 3VA6 molded case circuit breakers.

Article No. 3VA9977-0TD10

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 ETLL of 3VA6 molded case circuit breakers	3VA9977-0UA10

Connecting cables for EFB300



Οľ	EFB300		
	Length	Use	Article No.
	1.5 m		3VA9987-0UB10
	3.0 m		3VA9987-0UB20

Maintenance mode box

MMB300 maintenance mode boxes



- 2 digital outputs
- 1 digital input
- 1 3VA-line interface
- Including cable 1.5 m in length

Use Article No.

Series connection of up to eight 3VA6 molded case circuit breakers to one MMB300 maintenance mode box for activating the Dynamic Arc Sentry Mode (DAS Mode) of the molded case circuit breaker

Test devices

	ID300.	test (devid	Ì
	-			
	ł			
1				
l				
	TD400 -	toct	dovic	

Use	Connection	Article No.
For activation of the ETU and	On the front interface of the ETU	3VA9977-0MA10
initiation of a test tripping operation		

TD400 test devices 1)



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

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

TD500 test devices



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

Use Connection Article No.

Initiation of various test tripping On the front interface of the ETU 3VA9977-0MB10 operations (LSING), ETU parameterization

External power supplies for TD500 (spare part)



 Voltage
 Article No.

 110 ... 240 V AC
 3VA9987-0MX10

Connecting cables for connecting TD500 to 3VA6 molded case circuit breakers (spare part)



Article No. 3VA9977-0MY10

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

					3VA53
					3VA54
				3VA61	3VA63
		3VA51	3VA52	3VA62	3VA64
Version					
Cylinder lock	Key 1 (lock number 1)		3VA998	0-0VL10	
	Key 3 (lock number 3)		3VA998	0-0VL30	
	Key 4 (lock number 4)	3VA9980-0VL40			
Adapter kit for mounting t accessories compartment	he cylinder lock (type RONIS) in the of the molded case circuit breaker	3VA9137-0LF10	3VA9237-0LF10	3VA9147-0LF10	3VA9347-0LF10
Blocking device for handle		3VA9038-0LB10		3VA9378-0LB10	
Locking provision for hand	dle	-		-	-
	Cylinder lock Adapter kit for mounting taccessories compartment Blocking device for handle	Cylinder lock Key 1 (lock number 1) Key 3 (lock number 3)	The locking provisions make it possible to lock the 3VA molded case circuit breakers in either the OFF or the ON operating position. Version Cylinder lock Key 1 (lock number 1) Key 3 (lock number 3) Key 4 (lock number 4) Adapter kit for mounting the cylinder lock (type RONIS) in the accessories compartment of the molded case circuit breaker Blocking device for handle 3VA9038-0LB10	The locking provisions make it possible to lock the 3VA molded case circuit breakers in either the OFF or the ON operating position. Version Cylinder lock Key 1 (lock number 1) Key 3 (lock number 3) Key 4 (lock number 4) 3VA998 Adapter kit for mounting the cylinder lock (type RONIS) in the accessories compartment of the molded case circuit breaker Blocking device for handle 3VA9038-OLB10	The locking provisions make it possible to lock the 3VA molded case circuit breakers in either the OFF or the ON operating position. Version

3VA57 3VA58 3VA59 3VA67 3VA65 3VA68 3VA66 3VA69

Locking

3VA9980-0VL10	-
3VA9980-0VL30	-
3VA9980-0VL40	-
3VA9577-0LF10	-
3VA9578-0LB10	3VA9877-0LB10 new
-	3VA9877-0LB11 new

Use in	Locking in OFF position	Locking in ON position	Front mounting	Rear mounting	Interlocked breakers
Breakers, motor operators, manual operators, withdrawable technology	•	•	•	-	-
Circuit breaker	•	•	•	-	-
Circuit breaker	•	•	•	-	-
Circuit breaker	•	•	•	_	-

Locking, blocking and interlocking

						3VA53
						3VA54
					3VA61	3VA63
			3VA51	3VA52	3VA62	3VA64
Interlocking						
	 two or more molded case cir The interlock system is desig molded case circuit breaker of 	ned to ensure that no more than one				
	VEISIOII					
	Cylinder lock	Key 1 (lock number 1)		3VA998	0-0VL10	
		Key 3 (lock number 3)		3VA998	0-0VL30	
01		Key 4 (lock number 4)		3VA998	0-0VL40	
	Sliding bar interlock for interlocking 2 circuit breakers		3VA9138-0VF30	3VA9238-0VF30	3VA9148-0VF30	3VA9348-0VF30
	Module for handle interlock with Bowden cable	One module for handle interlock is required for each circuit breaker. A Bowden cable must be ordered separately.	3VA9137-0VF10	3VA9237-0VF10	3VA9147-0VF10	3VA9347-0VF10
	Bowden cable	Length 0.6 m		3VA9980	0-0VC10	
		Length 1.0 m	3VA9980-0VC20			
		Length 1.5 m	3VA9980-0VC30			
	Rear interlock with rod	Circuit breaker, fixed-mounted		3VA9078	3-0VM10	
		Plug-in/withdrawable technology		3VA9078	3-0VM30	
		Circuit breaker, fixed-mounted	-	-	-	-
	Mounting frame for rear interlock with rod for fixed-mounted version	Profile rails (2 units)		3VA9078	8-0VK10	
144	naca incumed version	Mounting plate	3VA9138-0VK20	3VA9238-0VK20	3VA9248-0VK20	3VA9448-0VK20

¹⁾ Contains mounting plate and profile rails

Locking in OFF position

3VA57 3VA58 3VA59 3VA55 3VA67 3VA65 3VA66 3VA69

Interlocking

Use in

3VA9980-0VL10	-
3VA9980-0VL30	-
3VA9980-0VL40	-
-	-
3VA9577-0VF10	3VA9877-0VF10 new
3VA9980-0VC10	-
3VA998	0-0VC20
3VA998	0-0VC30
3VA9578-0VM10 ¹⁾	-
-	-
-	3VA9873-0VM10 new
-	-
-	-

Breakers, motor operators, manual operators, withdrawable technology	•	•	•	-	Unlimited
Circuit breaker	-	-	•	-	3
Circuit breaker	-	-	•	-	3
Circuit breaker, fixed-mounted, Plug-in/withdrawable technology	-	-	-	•	2
Circuit breaker, fixed-mounted	-	-	-	•	2
Fixed-mounted	-	-	-	•	

Locking in ON position

Front mounting Rear mounting Interlocked breakers

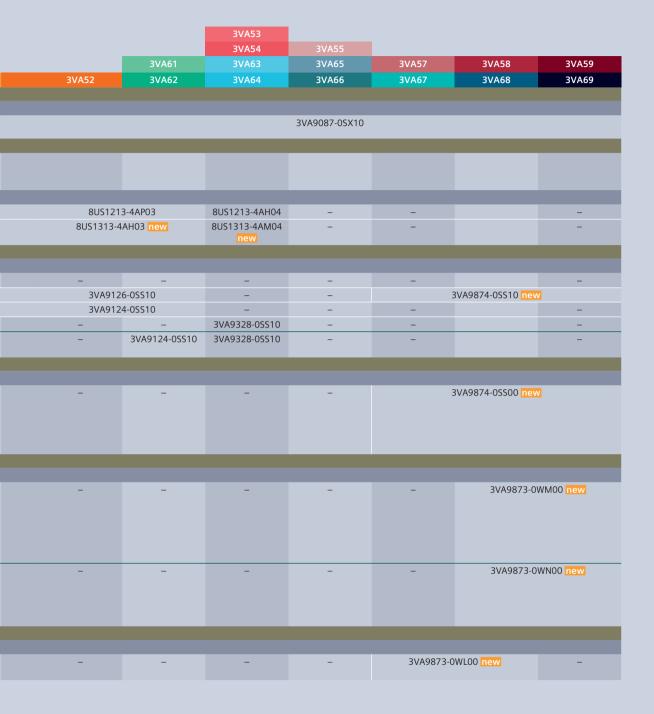
Cover frames and mounting

		3VA51				
Cover frames for do	oor cut-outs for molded case circuit breakers, with access to TMTU/ETU					
	Number of poles					
	3P	3VA9033-0SB20				
	4P	3VA9034-0SB20				
Cover frames for do	por cut-outs for molded case circuit breakers, with access to TMTU/ETU and connection area					
	Number of poles					
	3P	-				
Cover frames for do	oor cut-outs for molded case circuit breakers, without access to TMTU/ETU					
	Number of poles					
	3P	3VA9033-0SB10				
	4P	3VA9034-0SB10				
Cover frames for do	por cutout for circuit breaker handle only, without access to TMTU/ETU					
	Number of poles					
	3P	-				
Cover frames for M	O320 motor operators					
	Use					
	MO320 motor operator	3VA9033-0SB10				
	Motor operator with SEO520 stored energy operator	-				
Cover frames for fr	ont mounted rotary operators					
	<u> </u>					
		3VA9033-0SB10				
		-				
Cover frames for do	por feedthroughs					
		-				

		3VA53	3VA53						
		3VA54	3VA55	3VA57	3VA67				
	3VA61	3VA63	3VA65	3VA58	3AV68				
3VA52	3VA62	3AV64	3VA66	3VA59	3VA69				
3VA9233-0SB20	3VA9143-0SB20	3VA9343-0SB20	3VA9583-0SB20	3VA9877-0	SR20 now				
3VA9233-03B20 3VA9234-0SB20	3VA9144-0SB20	3VA9343-03B20 3VA9344-0SB20	3VA9583-03B20 3VA9584-0SB20		-				
3777234-03620	3777144-03020	3473344-03020	3VA930 1 -03B20						
				2\/\\0077 (SB60 <mark>new</mark>				
				3VA9077-0	JSB00 <mark>HeW</mark>				
3\/∆01/	13-0SB10	3VA9373-0SB10	3VA9583-0SB10	-	-				
	14-0SB10	3VA9373-03B10 3VA9374-0SB10	3VA9583-03B10 3VA9584-0SB10		-				
3.7.3.1.		317.337 1 632 16	377,530 1 032 10						
-	-	-	-	3VA9877-0	OSB10 new				
21/4023	27 05020	3VA9377-0SB30							
	37-0SB30 17-0SB30	3VA9377-USB3U	-	-	_				
7475	F7-03030								
3VA914	13-0SB10	3VA9373-0SB10	3VA9583-0SB50	-	-				
-	-	-	-	3VA9877-0	OSB30 new				
244022	22 05020	21/40222 05020							
3VA923	33-0SB20	3VA9333-0SB20	-	-	-				

Cover frames and mounting

			3VA51
Labeling plates for	cover frame, not for 3VA9877-0SB	110 and 3VA9877-0SB30	377.51
Tr. Tr.			3VA9087-0SX10
Adapters for 60 mm	n busbar system (8US)		
a a la la la	The connection technology for	0-mm spacing between busbars dapter, box terminals for the line side must be ordered separately. r the outgoing side can be chosen freely	
.1.1.	Number of poles		
81818	3P		8US1211-4SS00
30 11 ///	4P		-
Mounting scrow kir	ts with metric thread		
woulding screw kil	Use	Number of poles	
	For fixed-mounted breakers	1P	3VA9151-0SS10
	roi lixed-illoulited breakers	3P	3VA9126-0SS10
		4P	
			3VA9124-0SS10
		3P and 4P	
	For plug-in and withdrawable technology	-	_
Mounting screw kit	ts with inch thread		
4	Version	Scope of supply	
	1/4-20 UNC × 4.0	4 screws and 4 nuts, inch thread	-
Mounting base	_		
	Use		
	For front connection		-
	For rear connection		
Assembly kit for m	ultiple feed-in terminals and busba		
** ** **	Use	Number of poles	
	For busbars and multiple feed-in terminals	3P	-



3VL up to 1600 A, according to UL 489



3VL molded case circuit breakers



Product Discontinuation

The 3VL molded case circuit breaker up to 1600 A UL can only be ordered as a spare part since 10/2021 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 according to UL 489 www.siemens.com/lowvoltage/catalogs (109778213)



VL150X UL, CG frame



VL150 UL, DG frame



VL250 UL, FG frame

Number of poles				3-pole		3-pole			3-pole			
Rated current I _n 1)	Rated current I _n 1)		20	20 A 150 A		50 A 150 A		100 A 250 A		50 A		
Frequency				50/60 Hz		50/60 Hz		50/60 Hz		z		
Electrical characteristics according to	UL 489											
Rated operational voltage U _e 50/60 Hz AC			480 V, 600 V/347 V		480 V, 600 V/347 V		480 V, 600 V/347 V		/347 V			
	DC 2)			250 V		500 V			500 V			
Breaking capacity			N	Н	L	N	Н	L	N	Н	L	
Breaking capacity	Up to 240 V AC	kA	65	100	-	65	100	200	65	100	200	
	Up to 480 V AC	kA	35	65	-	35	65	100	35	65	100	
	Up to 600 V AC	kA	-	-	-	-	-	-	-	-	-	
	Up to 600 Y/347 V AC	kA	10	10	-	18	18	18	18	18	18	
	Up to 250 V DC ³⁾	kA	30	30	-	30	30	30	30	30	30	
	Up to 500 V DC 3)4)	kA	_	-	-	18	18	18	18	25	30	
Breaking capacity $I_{cu}II_{cs}$	Up to 240 V AC	kA	65/65	10/75	-	65/65	100/75	200/150	65/65	100/75	200/150	
rms value according to IEC 60947-2	Up to 415 V AC	kA	40/40	70/70	-	40/40	70/70	100/75	40/40	70/70	100/75	
	Up to 690 V AC	kA	8/4 5)	10/5 5)	-	12/6	12/6	12/6	12/6	12/6	12/6	
	Up to 250 V DC 3)	kA	30/30	30/30	-	30/30	30/30	30/30	30/30	30/30	30/30	
Dimensions												
8 B C C - 410 C C - 410 C C C C C C C C C C C C C C C C C C C	A	mm		105		105		105				
	В	mm		157		175		175				
	С	mm		81		81		81				
	D	mm	107		107		107					

^{1) 80%} rated current applications acc. to UL 489, 100% rated current applications acc. to IEC 60947-2.

²⁾ Rated operational DC voltage applies only to molded case circuit breakers with a thermal-magnetic trip unit.

³⁾ For switching DC, the maximum permissible direct voltage per conducting path must be considered.

⁴⁾ 500 V DC nominal/600 V DC max. for use in ungrounded UPS DC applications (acc. to UL 489, Supplement SC)

⁵⁾ Rated current I_n ≥25 A.











						+		*						
VL400 UL, JG frame			VL400X UL, LG frame		VL800 UL, MG frame		VL1200 UL, NG frame		VL1600 UL, PG frame					
3-pole			3-pole			3-pole		3-pole			3-pole			
250 A 400 A			400 A 600 A		600 A 800 A		800 A 1200 A		1200 A 1600 A					
50/60 Hz			50/60 Hz		50/60 Hz		50/60 Hz		50/60 Hz					
	600 V		600 V			600 V			600 V			600 V		
500 V			500 V			500 V		500 V		500 V				
N	Н	L	N	Н	L	N	Н	L	N	Н	L	N	Н	L
65	100	200	65	100	200	65	100	200	65	100	200	65	100	200
35	65	100	35	65	100	35	65	100	35	65	100	35	65	100
25	25	25	18	18	18	25	35	50	25	35	65	25	35	65
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	30	30	30	30	30	22	25	42	22	25	42	22	25	42
25	35	35	25	35	35	35	50	65	35	50	65	35	50	65
65/65	100/75	200/150	65/65	100/75	200/150	65/65	100/75	200/150	65/35	100/50	200/100	65/35	100/50	200/100
45/45	70/70	100/75	45/45	70/70	100/75	50/50	70/70	100/75	50/25	70/35	100/50	50/25	70/35	100/50
12/6	15/8	15/8	12/6	15/8	15/8	20/10	20/10	20/10	20/10	30/15	35/17	20/10	30/15	35/17
30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30
139			139			190		229			229			
279			279			406		406			406			
102			102			118		157			157			
138			138			151		209			209			



A/2

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Α

Link directory

Catalog LV 18

General information

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

Information + ordering

Technical overviews	
Air circuit breakers	www.siemens.com/lowvoltage/product-support (109766020)
Molded case circuit breakers	www.siemens.com/lowvoltage/product-support (109767421)
All the important things at a glance	
Air circuit breakers	www.siemens.com/3WL
Molded case circuit breakers	www.siemens.com/3VA
Your product in detail	
Technical basic information – 3VA molded case circuit breakers	www.siemens.com/lowvoltage/product-support (109766672)
Siemens YouTube channel	
3WL air circuit breakers (general)	bit.ly/2ZH1rXH
3VA molded case circuit breakers (general)	bit.ly/2xNxIFA
Everything you need for your order	
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3VA molded case circuit breakers	www.siemens.com/sitrain-lowvoltage (WT-LVA3VA)
Communication with SENTRON components	www.siemens.com/sitrain-lowvoltage (LV-COM)
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