

Innovative solutions for industrial controls and power distribution

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

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

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



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www.siemens.com/lowvoltage/contact

Catalog LV 18 · 10/2021

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



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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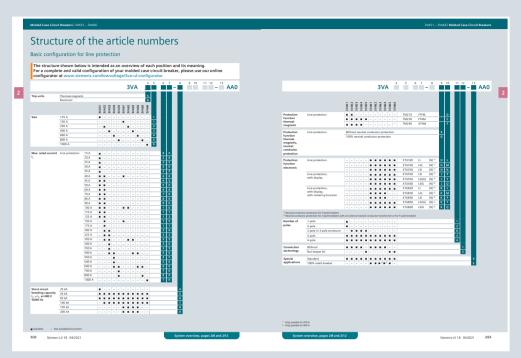
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Α

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



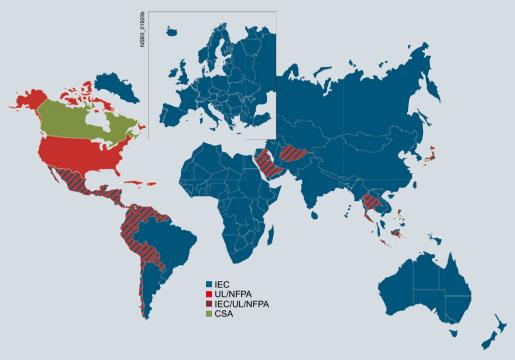
or by entering this web address incl. article number www.siemens.com/product?Article No.

new Search function

Search for new products by entering "new" in the text field of the search function



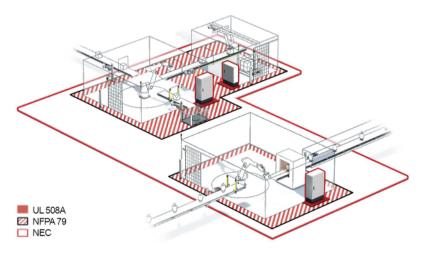
Overview of the key US standards



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 @ and ne 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 switching device suitable for this network has a slash rating.



3 phases,

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:

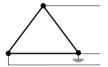
600Y/347 V 1)

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.



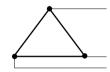
3 phases,

Corner grounded delta, 3 phases, 3 conductors



3 phases,
3 conductors
Ungrounded wye,

3 phases, 3 conductors



3 phases, 3 conductors

Ungrounded delta, 3 phases, 3 conductors

Usable line voltages:

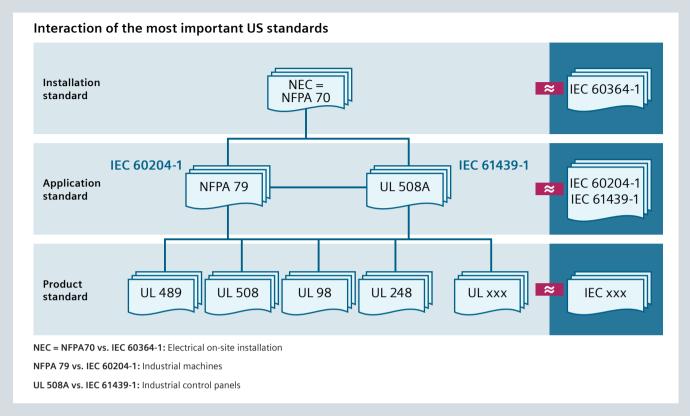
600 V

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



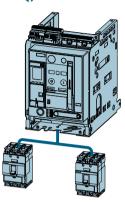
Contact our Support at www.siemens.com/lowvoltage/certificates to find out which products (please specify the article number) are approved according to which standard.

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			CSA		IEC		
			Standard	CCN UL listed	CCN UL recognized	UL File No.	Standard	CSA Class No.	Standard	
Air Circ	Air Circuit Breakers									
3WL5	≤5000 A	ACB	UL 489	DIVQ	-	E231263	C22.2 No. 5	101003	IEC 60947-2	
Molded	Case Circuit	Breakers								
3VA5	≤800 A	Circuit breaker (CB)	UL 489	DIVQ	-	E364397	C22.2 No. 5	267698	IEC 60947-2	
		Motor circuit protector (MCP)	UL 489	-	DKPU2	E482699	C22.2 No. 5	267698	IEC 60947-2	
		Molded case switch (MCS)	UL 489	WJAZ	-	E482701	C22.2 No. 5	267698	IEC 60947-2	
3VA6	≤1000 A	Circuit breaker (CB)	UL 489	DIVQ	-	E364397	C22.2 No. 5	267698	IEC 60947-2	
		Motor circuit protector (MCP)	UL 489	_	DKPU2	E482699	C22.2 No. 5	267698	IEC 60947-2	
		Molded case switch (MCS)	UL 489	WJAZ	-	E482701	C22.2 No. 5	267698	IEC 60947-2	
3VA9		Circuit breaker accessories	UL 489	DISHS7	DIHS2 DIHS8	E354102	C22.2 No. 5	-	IEC 60947-2	

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

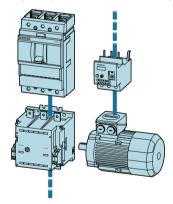
Non-automatic circuit breaker/ Switch disconnector/Molded case switch (MCS, CCN code: WJAZ)



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)



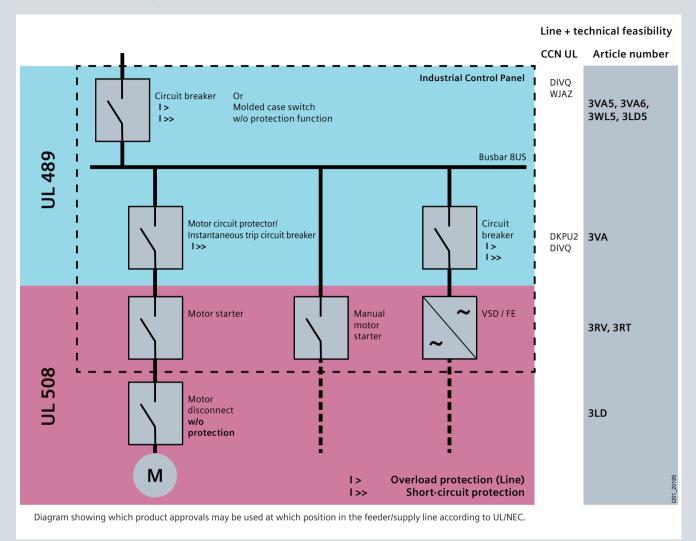
Starter combinations consist of:

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



Siemens LV 18 · 10/2021

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

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

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

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

... can be found in our online services

Commissioning + operation



SENTRON powerconfig

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

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

Free download SENTRON powerconfig mobile via **App Store and Play Store**



Your product in detail

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

www.siemens.com/lowvoltage/product-support

- · Operating instructions
- Characteristic curves
- Certificates

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

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

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

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

■■ Manuals

Manuals are available for downloading in Siemens Industry Online Support (SIOS) at

www.siemens.com/lowvoltage/manuals

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

Classroom 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)

Switching devices for AC and DC

UL 489

7 - 7 7 7 7	W. 16	
	10	
	pl. ta	
	1350	
This is	7	

AC



			3WL51		3W	L52
Basic data						
Rated operational voltage $U_{\rm e}$		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, CE, CCC	, EAC, C-Tick, CSA	VDE, UL, CE, CCC	, EAC, C-Tick, CSA
Breaking capacity				S		<u>H</u>
Short-circuit breaking capacity acc. to UL 489						
Short-circuit breaking capacity up to 480 V AC $I_{cu} = I_{cs}$		kA		5		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	_	55		00
Short-circuit breaking capacity I_{cm} at 500 V AC $I_{cu} = I_{cs}$		kA	1-	43		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		55		35
	1 s	kA	5	0	8	30
Rated short-circuit current I_{cc} of the non-automatic air circuit bre	akers					
Rated short-circuit current I _{cc} at 690 V DC		kA		-		-
Rated short-circuit current I_{cc} at 1000 V DC		kA		-		-

 $^{^{\}rm 1)}\,$ Covered by 600 V AC (delta) test.



DC

3WL53	3WL	5120	3WL5232	
≤600 Y/347	1000		69	90
4000 5000	20	000	32	00
3		1	2	2
Withdrawable Fixed-mounted	Withdrawable	Fixed-mounted	Withdrawable	Fixed-mounted
3/4-pole 3/4-pole	4-pole	4-pole	3-pole	3-pole
704 914 704 914	410	410	460	460
465.5 434	465.5	434	465.5	434
471 291	471	291	471	291
VDE, UL, CE, CCC, EAC, C-Tick, CSA	VDE, UL, CE, CCC, EAC, C-Tick, CSA		VDE, UL, CE, CCC, EAC, C-Tick, CS.	
Н		DC		С
100		-	-	-
85	-		-	
-		-	-	
100		-	-	
220		-	-	-
85	_		-	
187		_	-	-
85		-	-	
85	-		-	
80				
-	2	20	2	5
-	2	20	-	

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Switching devices for AC

UL 489

3WL51



				49 /
Rated current I _n			≤1000 A	1600 A
General technical specifications				
Isolating function acc. to EN 60947-2			Υe	28
Utilization category			E	3
Permissible ambient temperature	Operation	°C	-25	+55
	Storage	°C	-25	.+70
Mounting position			30° 30° 30° 30° 30° NSE0_00061a NSE0_00062a	NSEO_00927
Degree of protection	With cover		IPS	55
	Without cover (with door sealing fram	ne)	IP4	11
Voltage				
Rated operational voltage $U_{\rm e}$ at 50/60 Hz		V AC	600 Y	1347
Permissible load at 50/60 Hz				
For main conductors	At 40 °C	Α	≤1000	1600
	At 55 °C	Α	≤1000	1600
	At 60 °C	Α	≤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	3	5
Opening time		ms	3	8
Electrical make time (through activation sole	noid) 1)	ms	8	0
Electrical opening time (through shunt trip)		ms	7.	3
Electrical opening time (instantaneous under	voltage release)	ms	≥≥	30
Opening time due to ETU, instantaneous sho	rt-circuit release	ms	50	
Service life/endurance				
Mechanical	Without maintenance	Operating cycles	100	000
Electrical	Without maintenance	Operating cycles	40	00
Switching frequency				
Mechanical/electrical		1/h	6	0
Minimum pauses				
Between tripping by the electronic trip unit a with automatic mechanical reset of the reclosest.	nd the next closure of the circuit breaker (only	ms	8	0
with automatic mechanical reset of the recio	sing lockout)			

 $^{^{1)}\,}$ 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		
	V-			V			
	Ye B			Ye E			
	-25	. +55		-25	+55		
	-25 ر\$30°ړ ≾30°ړ _ ر\$30°ړ	.+70 .*E		-25 \$30°\\\30°\\\\30°\\30°\\30	+70 × E I III III III		
	NSE0_00061a NSE0_00062a	NSE0_00927		NSE0_00061a NSE0_00062a	NSE0_00927		
	IP5			IP5			
	IP4	·1		IP ²	1 5		
600	600	600	600	≤600`	Y/347		
2000	2500	2000	2200	4000	F000		
2000	2500 2500	3000 3000	3200 3200	4000 4000	5000 5000		
2000	2500	3000	3200	4000	5000		
180	270	410	410	520	630		
320	520	710	710	810	1050		
	35 34			3			
	10			10			
	73	3		7.			
	≤8 50			≤8 5			
	30)		ر ا	0		
10000				10000			
4000				10	00		
	60	<u> </u>		6	0		
	60			6			
	80)		8	0		

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Switching devices for AC

UL 489

3WL51



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	anded)			
Standard connection = screw	Without end sleeve	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	art 2 1)	1× 0.5 1× 1.5 mm² (AWG 20 16)		
	With twin end sleeve		2× 0.5 2× 1.5 r	mm² (AWG 20 16)	
Screwless connection technology	Without end sleeve		2× 0.5 2× 2.5 r	nm² (AWG 20 14)	
	With end sleeve acc. to DIN 46228 Pa	art 2	2× 0.5 2× 1.5 r	mm² (AWG 20 16)	
Minimum dimension of breaker compartr	nent				
Width × height × depth	3-pole	mm	400 × 4	160 × 380	
	3-pole with A17	mm		-	
	4-pole	mm	500 × 4	160 × 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





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)			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	m² (AWG 20 16)	
	2× 0.5 2× 1.5 m	m² (AWG 20 16)		2× 0.5 2× 1.5 mm ² (AWG 20 16)		
	2× 0.5 2× 2.5 m	m² (AWG 20 14)		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	82		
60	63	8	88			
31	31 39 45 –			6	50	
67	71	77	77	99		
72	76	82	-	1	06	
37 47 54 -				8	34	

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Switching devices for DC

UL 489

			3WL5120	3WL5232
Rated current I _n			1600 A	3200 A
General technical specifications				
Isolating function acc. to EN 60947-2			Yes	
Utilization category			В	
Permissible ambient temperature	Operation	°C	-25+5	5
	Storage	°C	−25+7	' 0
Mounting position			30°+30° NSE0_00061a and/or NSE0_00062a	NSE0_00927
Degree of protection	With cover		IP55	
	Without cover (with door sealing frame)		IP41	
Voltage				
Rated operational voltage $U_{\rm e}$		V DC	1000	690
Permissible load				
For main conductors, acc. to IEC 60947-2	At 40 °C	Α	2000	3200
	At 55 °C	Α	2000	3200
	At 60 °C	Α	2000	3200
For main conductors, acc. to UL 489B	At 40 °C	Α	1600	3200
	At 55 °C	Α	1600	3200
	At 60 ℃	Α	1600	3200
Power loss at I _n				
With 3-phase symmetrical load	Fixed-mounted circuit breaker	W	100	410
	Withdrawable circuit breaker	W	_	-
Switching times				
Make time		ms	35	35
Opening time		ms	38	34
Electrical make time (through activation sole	enoid) 1)	ms	80	100
Electrical opening time (through shunt trip)		ms	73	73
Electrical opening time (instantaneous unde		ms	≤80	≤80
Opening time due to ETU, instantaneous sho	ort-circuit release	ms	50	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.

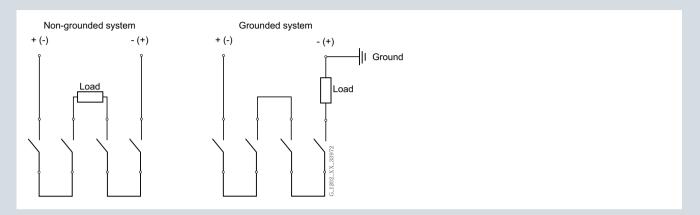
			3WL5120	3WL5232	
Rated current I _n			1600 A	3200 A	
Connection					
Main conductor minimum cross-sections					
Copper bars, bare		Unit	2× 6.4 × 76.2	4× 6.4 × 102	
Auxiliary conductor (Cu) max. number of a	nuxiliary conductors × cross-section ((solid/stranded)			
Standard connection = strain-relief clamp	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	50	64	
Dimensions 3/4-pole					
Fixed-mounted	Width	mm	320/410	460/590	
	Height	mm	434	434	
	Depth	mm	291	291	
Withdrawable	Height	mm	465.5	465.5	
	Depth	mm	471	471	

²⁾ Notice: Approval of end sleeves.

Switching devices for DC

Application examples size 1

Permissible interconnection Circuit diagrams for size 1, 1000 V DC non-automatic air circuit breakers



Application examples size 2

The connection to the circuit breakers is not dependent on direction and polarity; the circuit diagrams can be adapted accordingly. If the parallel or series connections are made directly to the connecting bars, for thermal reasons the continuous load on the circuit breakers must only be 80% of the permissible operational current. If the parallel or series connection is made at a distance of 1 m from the connecting bars, the circuit breaker can be used at full operational current load.

Required contact gaps at rated voltage	For 3-pole non-au	tomatic air circuit breakers	For 4-pole non-auton	natic air circuit breakers
	1-pole	2-pole	1-pole	2-pole
Rated operational voltage <300 V + 10%				
	NSS0_00539			
	Only with grounde	d system ²⁾	Only with grounded sy	ystem ³⁾
Rated operational voltage >300 V + 10% 6	00 V + 10%			
<u>'</u>		1		
		Only with grounded syste	em Only with grounded sy	ystem ²⁾
Rated operational voltage >600 V + 10% 1	000 V + 10% ⁴⁾			
			NSS0_00595	H. 1
	Only with grounde	d system	Only with grounded system	Only with grounded system

Conducting paths series-connected2) 2 parallel conducting paths

□ Load

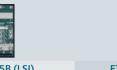
System overview, page 1/18

^{3) 3)} a parallel conducting paths 4) Version for 1000 V required, order with "-Z" and order code A05

[⊢] Grounded system

Electronic trip units ETU

Available for air circuit breakers





			ETU45B (LSI)	ETU45B (LSIG)				
Ba	sic protective functions							
L	Overload protection (L tripping operation)	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 delay short-circuit protection (ST tripping operation)	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 I^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 operation)	Setting range $2 = I_n \times$	OFF 1,5 2,2 3 4 6 8 10 12 0,8 × lcs	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 operation	Tripping function can be switched on/off	-					
	(GF tripping operation)			-				
	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 $t_{ m g}$	-	100 200 300 400 500 ms				
		Switchable grounding protection characteristic (<i>l</i> ² <i>t</i> -dependent function)	-	•				
		Setting range of delay time $t_{\rm g}$ at I^2t	-	100 200 300 400 500 ms				
		ZSI-G function	_	Via module of the Cubicle BUS				





		ETU45B (LSI)	ETU45B (LSIG)
Parameter set changeover	Switchable between parameter set A and B	-	-
LCD		Optional	Optional
Voltage tap on top/bottom		Optional	Optional
Metering function		Metering function Plus	Metering function Plus
current/voltage, harmonic distortion	tended protective function: (including: phase asymmetry on current/voltage, under/overvoltage, phase rotation to normal direction, under/over-frequency, protective of power flow)	•	•
Mode of communication			
Communication PROFIBUS PROFIN	NET Modbus RTU Modbus TCP		
Output modules			
tripping 200 ms, temperature alarr short time-delayed short-circuit rel	g, load shedding / load carrying, leading signal, overload n, phase asymmetry, instantaneous short-circuit release, ease, overload trip, neutral conductor trip, auxiliary relay, ripping and grounding protection alarm (only with ground-	•	•

System overview, page 1/18

Connection

Main circuit connection

3WL5



Auxiliary circuit connections

3WL5: Withdrawable version

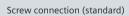
- Connection of the internal auxiliary switches to the male connector on the switch side
- When fully inserted, connection with the sliding contact module in the guide frame

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 1/18

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

Switching devices



Sizes 1 to 3

Trip units





LSIN, LSING

Accessories











module

Rating plugs

magnets

Breaker status sensors (BSS)

Ground-fault modules

Main conductor connections



Fixed-mounted. withdrawable versions



Main connection vertical. horizontal, front, flange

Accessories



Auxiliary conductor plug-in system

Operating mechanisms and auxiliary releases





Motorized operating mechanisms

Auxiliary releases

Accessories



Closing coils

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 E

EMERGENCY-OFF pushbuttons

Operating cycle counters

ing cycle Support brackets

Grounding connections

Interlocking





Interlocking sets

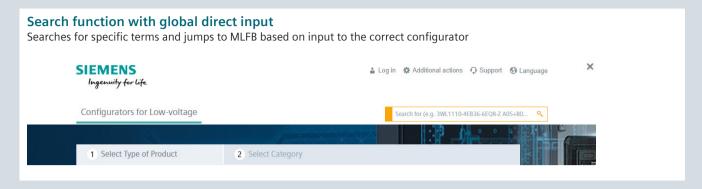
Key operation

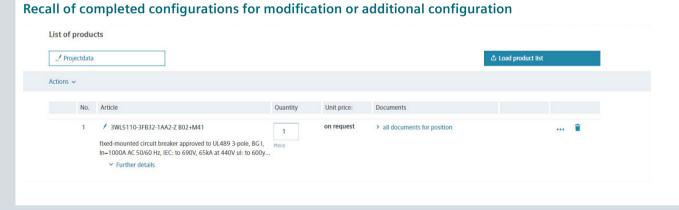
Note:

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

Online configurator highlights

www.siemens.com/lowvoltage/configurators

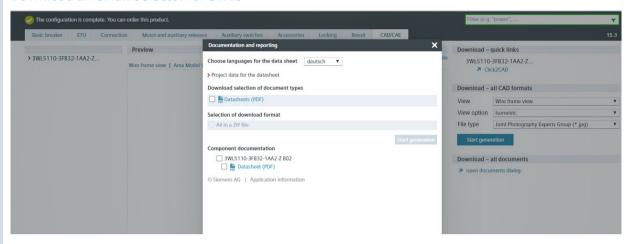




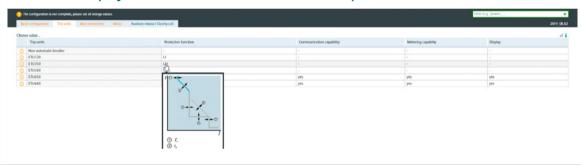


www.siemens.com/lowvoltage/3wl-configurator

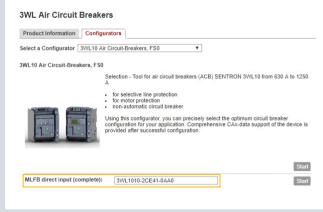
Download an ePlan Selector for 3WL5



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	Ī	1	15	15
Switching d	levice and ETU	J															
Size (SZ)	1			1													
	2			2													
	3			3													
		SZ 1	SZ 2	SZ 3													
Max. rated current	1000 A		_	_	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											
	S Standard	•	_	_	≤65 kA		3										
	H High	-	•	•	≤100 kA	١	4										
Trip units	Without electronic trip	unit						Α	А								
	Without ground-fault	ETU4	-5B			LSIN		Е	В								
Size (SZ) Max. rated current In Short-circuit breaking capacity Icu at 480 V Trip units	protection			ith di	splay)	LSIN		F	В								
	With ground-fault	ETU45B LSING E							G								
	protection	ETU4	5B (w	ith di	splay)	LSING		F	G								
Number of poles	3-pole									,							
Number of poles	4-pole									3							
	i poic																
Connection		SZ 1	SZ 2	SZ 3													
Type of mounting	Fixed-mounted		•	-	Vertical						1						
			= 2)		Horizon	tal					2						
		-	= 2)	■3)	Front si	ngle hol	e				3						
		-	= 2)	■ 3)	Front do	ouble ho	ole				4						
	Withdrawable	-	= 2)	-	Without	t frame					5 6						
		-	= 2)	•			connectio	on			6						
			= 2)	•			nnection				7						
			■ 2)	■ 3)	Connec	ting flan	ige				8						

¹⁾ For fixed-mounted versions only

²⁾ Not available for 3200 A

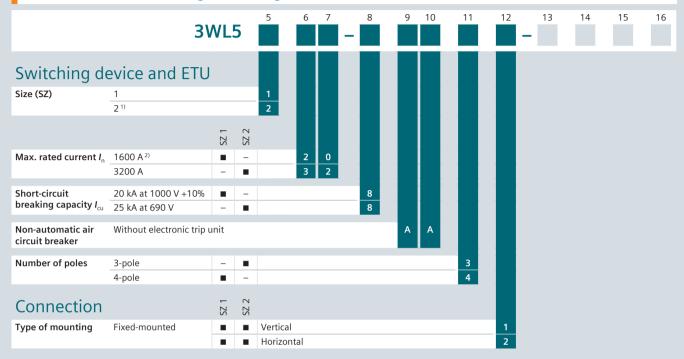
³⁾ Not available for 5000 A

		3WL5	5	6 7	8	9	10	11	12	- 13	14	15	16	
Motor														
Stored energy	Manual recharging	With mech	anical one	ration						1				
mechanism	of the stored energy mechanism		anical and	electrical il suitable	240 V AC 50/60 Hz/220 V DC									
	Motorized recharging	With mech operation, for uninter 100% OP	closing co	il suitable		40 V AC 50/60 Hz/220 250 V DC 4 27 V AC 50/60 Hz/110 125 V DC 5								
1st auxiliary release	Without 1st auxiliary	/ release									Α			
	With shunt trip (ST)	24 V DC									В			
	100% OP	30 V DC									С			
		48 V DC									C D E			
		60 V DC									E			
) 125 V D							F G			
		208 240	V AC, 220) 250 V D	C						G			
2nd auxiliary	Without 2nd auxiliar	y release										Α		
release	With shunt trip (ST)	100% OP			24 V DC									
						30 V DC								
						DC	D							
							DC	D.C.	E F					
						110 127 V AC 50/60 Hz/110 125 V DC 208 240 V AC 50/60 Hz/220 250 V DC								
	With undervoltage r	24 V DC												
	With undervoltage release (UVR), instantaneous						DC	K						
		48 V DC												
						60 V DC								
						110 127 V AC 50/60 Hz/110 125 V DC								
								208 240 V AC 50/60 Hz/220 250 V DC						
			380 .	415 \		P Q								
	With undervoltage re	elease (UVR),	ase (UVR), delay 0.2 3.2 s					48 V DC						
								110 127 V AC 50/60 Hz/110 125 V DC						
			208 240 V AC 50/60 Hz/220 250 V DC 380 415 V AC 50/60 Hz						S					
						380.	415 V	AC 50/6	U HZ			Т		
Auxiliary switches														
1st auxiliary switch b	olock		2 NO +	2 NC									2	
1st + 2nd auxiliary sv	witch block		4 NO +	4 NC									4	
Line durinary 30			6 NO +										7	
			5 NO +	3 NC									8	

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



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

 $^{^{\}rm 2)}\,$ Acc. to IEC 60947-2, the rated current is 2000 A

Manual recharging of the stored energy mechanism Mith mechanical operation With mechanical and electrical operation, closing coil suitable for uninterrupted duty, 100% OP Motorized recharging With mechanical and electrical operation, closing coil suitable for uninterrupted duty, 100% OP Motorized recharging With mechanical and electrical operation, closing coil suitable for uninterrupted duty, 100% OP Motorized recharging With mechanical and electrical operation, closing coil suitable for uninterrupted duty, 100% OP Motorized recharging Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operation, closing coil suitable for uninterrupted duty, 100% OP Motorized operatio				_		_									
Motor Stored energy mechanism Manual recharging of the stored energy mechanism of the stored energy mechanism with mechanical and electrical operation, desiring coil suitable for uninterrupted dury, 100% op 240 V.A.C. 50(60 Hz/120 250 V.D.C 3			3WI 5	5	6	7	8	9	10	11	12	13	14	15	16
Manual recharging of the stored energy mechanism With mechanical and electrical period (no.6) in goil suitable for uninterrupted duty, 100% OP Motorized precharging Without 2nd with mechanical and electrical period (no.6) in goil suitable for uninterrupted duty, 100% OP Motorized period (no.6) in goil suitable for uninterrupted duty, 100% OP Motorized period (no.6) in goil suitable for uninterrupted duty, 100% OP Motorized period (no.6) in goil suitable for uninterrupted duty, 100% OP Motorized period (no.6) in goil suitable for uninterrupted duty, 100% OP Motorized period (no.6) in J27 VAC, 110125 VDC Motorized period (no.6) in J27 VAC, 110125 VDC Motorized period (no.6) in J27 VAC, 110125 VDC Motorized period (no.6) in J27 VAC, 220250 VDC Motorized period (no.6) in J27 VAC,			JVVLJ												
Manual recharging of the stored energy mechanism With mechanical and electrical period (no.6) in goil suitable for uninterrupted duty, 100% OP Motorized precharging Without 2nd with mechanical and electrical period (no.6) in goil suitable for uninterrupted duty, 100% OP Motorized period (no.6) in goil suitable for uninterrupted duty, 100% OP Motorized period (no.6) in goil suitable for uninterrupted duty, 100% OP Motorized period (no.6) in goil suitable for uninterrupted duty, 100% OP Motorized period (no.6) in goil suitable for uninterrupted duty, 100% OP Motorized period (no.6) in J27 VAC, 110125 VDC Motorized period (no.6) in J27 VAC, 110125 VDC Motorized period (no.6) in J27 VAC, 110125 VDC Motorized period (no.6) in J27 VAC, 220250 VDC Motorized period (no.6) in J27 VAC,	Matak														
Mith undervoltage release (UVR), delay 0.2 3.2 s Mith unde	MOTOL														
Motorized Motorized With mechanical and electrical 240 V AC 50/60 Hz/220 \cdot DC 4	Stored energy														
Section State Section	mechanism)C	2			
Techarging			for uninterr				240 V AC :	5U/6U HZ	1220 V	DC		3			
Stauxiliary release Without 1st auxiliary release Without 2nd auxiliary release With shunt trip (ST) 100% OP 24 V DC B 30 V DC C 48 V DC D C 48 V DC D C C C C C C C C															
1st auxiliary release Without 1st auxiliary release With shunt trip (ST) 24 V DC 00% OP 30 V DC 0 C 0 D 0 C 0 D 0 C 0 D		recnarging				bie		7 V AC 50	0/60 Hz	/110	125 V DC				
With shunt trip (ST)							24 V DC					6			
With shunt trip (ST)	1st auxiliary release	Without 1st auxiliary	release										Α		
100% OP	With shunt trip (S														
Continue		100% OP	30 V DC												
110 127 V AC, 110 125 V DC 208 240 V AC, 220 250 V DC G			48 V DC												
208 240 V AC, 220 250 V DC 2nd auxiliary release With out 2nd auxiliary release With shunt trip (ST) 100% OP 24 V DC 30 V DC 48 V DC 60 V DC 110 127 V AC 50/60 Hz/110 125 V DC 7 With undervoltage release (UVR), instantaneous 24 V DC 110 127 V AC 50/60 Hz/120 250 V DC 30 V DC 48 V DC 10 V DC 48 V DC 110 127 V AC 50/60 Hz/120 250 V DC 110 127 V AC 50/60 Hz/110 125 V DC 110 127 V AC 50/60 Hz/110 125 V DC 110 127 V AC 50/60 Hz/110 125 V DC N 380 415 V AC 50/60 Hz/120 250 V DC N With undervoltage release (UVR), delay 0.2 3.2 s With undervoltage release (UVR), delay 0.2 3.2 s 48 V DC 110 127 V AC 50/60 Hz/110 125 V DC N 380 415 V AC 50/60 Hz/110 125 V DC R 208 240 V AC 50/60 Hz/110															
Without 2nd auxiliary release With shunt trip (ST) 100% OP 24 V DC 8 B 30 V DC C 48 V DC D 60 V DC E 110 127 V AC 50/60 Hz/110 125 V DC F 24 V DC J 30 V DC C 28 240 V AC 50/60 Hz/120 250 V DC G V DC J 30 V DC K 48 V DC J 30 V DC T 30 V DC															
With shunt trip (ST) 100% OP			208 240	V AC, 220	0 250) V D	С						G		
Section Sect	2nd auxiliary	Without 2nd auxiliary	/ release											Α	
A8 V DC	release	With shunt trip (ST) 1	00% OP					24 V	DC						
Comparison															
110 127 V AC 50/60 Hz/110 125 V DC F 208 240 V AC 50/60 Hz/220 250 V DC G 24 V DC 30 V DC K 48 V DC L 60 V DC U 110 127 V AC 50/60 Hz/110 125 V DC M 226 250 V DC N 380 415 V AC 50/60 Hz/220 250 V DC N 380 415 V AC 50/60 Hz/220 250 V DC R 226 240 V AC 50/60 Hz/210 125 V DC R 226 240 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 48 V DC															
208 240 V AC 50/60 Hz/220 250 V DC G												425.77			
With undervoltage release (UVR), instantaneous 24 V DC 30 V DC 48 V DC 60 V DC 110 127 V AC 50/60 Hz/110 125 V DC M 208 240 V AC 50/60 Hz/220 250 V DC N 380 415 V AC 50/60 Hz/220 250 V DC R 208 240 V AC 50/60 Hz/110 125 V DC R 208 240 V AC 50/60 Hz/110 125 V DC R 208 240 V AC 50/60 Hz/1220 250 V DC S 380 415 V AC 50/60 Hz/1220 250 V DC S 380 415 V AC 50/60 Hz/120 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/220 250 V DC S 380 415 V AC 50/60 Hz/20 250 V DC															
30 V DC		With undervoltage re	Jassa (LIVR) ii	nctantan	20116					/ AC 50/	00 HZ/ZZU	250 V L)C		
## AB V DC 60 V DC		with undervoltage re	ilease (OVK), ii	iistaiitaiit	eous										
110 127 V AC 50/60 Hz/110 125 V DC M															
208 240 V AC 50/60 Hz/220 250 V DC N 380 415 V AC 50/60 Hz 220 250 V DC P P P P P P P P P														U	
380 415 V AC 50/60 Hz P								110 .	127 \	/ AC 50/	60 Hz/110	125 V [OC	М	
With undervoltage release (UVR), delay 0.2 3.2 s 48 V DC 110 127 V AC 50/60 Hz/110 125 V DC 208 240 V AC 50/60 Hz/220 250 V DC 380 415 V AC 50/60 Hz Auxiliary switch block 2 NO + 2 NC 2 NO + 4 NC 6 NO + 2 NC 7								208 .	240 \	/ AC 50/	60 Hz/220	250 V [OC		
110 127 V AC 50/60 Hz/110 125 V DC R 208 240 V AC 50/60 Hz/220 250 V DC 3 380 415 V AC 50/60 Hz T Auxiliary switch block 2 NO + 2 NC 2 2 2 2 2 2 2 2 2										/ AC 50/	60 Hz				
208 240 V AC 50/60 Hz/220 250 V DC 380 415 V AC 50/60 Hz 7 Auxiliary switch block 2 NO + 2 NC 2 1st + 2nd auxiliary switch block 4 NO + 4 NC 4 NO 5 NO + 2 NC 7		With undervoltage re	elease (UVR), d	lelay 0.2	3.2 s										
Auxiliary switches 1st auxiliary switch block 2 NO + 2 NC 2 1st + 2nd auxiliary switch block 4 NO + 4 NC 6 NO + 2 NC 7										-					
Auxiliary switches 1st auxiliary switch block 2 NO + 2 NC 2 1st + 2nd auxiliary switch block 4 NO + 4 NC 4 6 NO + 2 NC 7												250 V L)C		
1st auxiliary switch block 2 NO + 2 NC 2 1st + 2nd auxiliary switch block 4 NO + 4 NC 4 6 NO + 2 NC 7								380.	415 \	AC 50/	ou HZ				
1st + 2nd auxiliary switch block 4 NO + 4 NC 4 6 NO + 2 NC 7	Auxiliary sw	itches													
6 NO + 2 NC 7	1st auxiliary switch b	lock		2 NO +	- 2 NC										2
6 NO + 2 NC 7	1st + 2nd auxiliary sv	vitch block		4 NO +	4 NC										4
5 NO + 3 NC 8															_
				5 NO +	- 3 NC										8

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	the complete Article No. and	d indicate the		Order code
appropriate order code(s).			3WLZ	
Accessories for basic of	configuration			
	3			
IT network capability at 69	U V AC + 10% according	to IEC 60947-2 Anne	хн	
Rated operational voltage AC	Size 2	3WL5225-431		A17
		3WL5225-432		A17
		3WL5232-431		A17
	Size 3	3WL5340-431		A17
		3WL5340-432		A17
		3WL5350-431 3WL5350-432		A17
Rated operational voltage DC	Size 2	3WL5232-8AA31		A17
nated operational voltage be	3126 Z	3WL5232-8AA32		A17
Accessories for electrons Rating plugs Only one module is possible per circuit As standard, the electronic trip units a	it breaker. are equipped with a rating plug whi	ch is equal to the maximum rate	ed circuit breaker current (I _{n max}).	
The rated current of the selected ratin Module	ig plug must be less than $I_{n \text{ max}}$ Sizes 1, 2	250 A		B02
		315 A		B03
		400 A		B04
		500 A		B05
		630 A		B06
		800 A		B08
		1000 A		B10
	Sizes 1, 2, 3	1250 A		B12
		1600 A		B16
	Sizes 2, 3	2000 A		B20
		2500 A		B25
		3000 A		B30
		3200 A		B32
	Size 3	4000 A		B40
		5000 A		B50
Communication and meter	ing function			
Breaker status sensor (BSS)	For determining the statuses	ON/OFF/Tripped		F01
PROFIBUS DP communication port 1)	Including COM15 and breake	r status sensor (BSS)		F02
MODBUS RTU communication port 1)	Including COM16 and breake	r status sensor (BSS)		F12
PROFINET IO/Modbus TCP	Including COM35 and breake	r status sensor (BSS)		F35
communication port 1)				

Without communication module

F05

Metering function Plus 2)

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 metering function Plus, e.g. GE Grid Solutions Model 468.

To specify the options, add "-Z" to the appropriate order code(s).	e complete Article No. and in	dicate the	3WLZ	Order code
Accessories for electronic	ic trip units ETU			
EMC filter				
Common-mode interference suppressor fi Insertion loss (asymmetric) in the range 4		requency converters)		
EMC filter				F31
Overload and short-circuit pro		ductors		
Only possible with 4-pole circuit breaker v	vith ETU45B			
Internal current transformer for N conductor	Size 1			F23
	Size 2			F23
	Size 3			F23
.				
Remote resetting				
Automatic reset of the reclosing lockout				K01
Remote reset for displays and reset buttor	-	reclosing lockout		
Remote reset magnets	24 30 V DC			K10
	48 60 V DC			K11
	120 V AC 50/60 Hz/125 V DC			K12
	208 250 V AC 50/60 Hz/208	250 V DC		K13
Connection				
Connection				
Connection technology for ma	ain connections (fixed i	mounting)		
Top:1) horizontal	Size 1	≤1600 A		N11
Bottom: accessible from front, single hole	Size 2	≤2000 A		N11
		≤2500 A		N11
		≤3200 A		N11
	Size 3	≤4000 A		N11
Top: vertical	Size 1	≤1600 A		N20
Bottom: horizontal		≤2000 A		N20
	Size 2	≤2000 A		N20
		≤2500 A ≤3200 A		N20 N20
	Size 3	≤3200 A ≤4000 A		N20 N20
	3120 3	≤4000 A ≤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 the appropriate order code(s).	e complete Article No. and in	dicate the	3WLZ	Order code
Connection				
Connection technology for ma	ain connections (withd	rawable 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 hole	Size 2	≤3200 A		P07
	Size 3	≤4000 A		P07
Connection technology for ma				
Top: vertical Bottom: horizontal	Size 1	≤1600 A		P18
Bottom: nonzontal	Size 2 Size 3	≤3200 A		P18
		≤5000 A		P18
Top: connecting flange Bottom: horizontal	Size 1	≤1600 A		P19
Bottom: norizontal	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 au (for fixed-mounted and withd		rs)		
Connection technology for screwless	Fixed-mounted			N61
terminals (tension spring)	Withdrawable			P61

To specify the options, add "-Z" to appropriate order code(s).	the complete Article No. and indi	3WLZ	Order code
Operating mechanism	s and auxiliary release	25	
Motorized operating mechanisms	Only possible if the 13th digit of	24 30 V DC	M01
	the Article No. = "1"	48 60 V DC	M03
		110 127 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	5-digit 1)		C01
Closing coils	 Suitable for uninterrupted duty, 	24 V DC	M21
_	100% OP	30 V DC	M22
	 Only possible if the 13th digit of the Article No. = "1" 	48 V DC	M23
	of the Afticle No. = 1	60 V DC	M24
		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	24 V DC	M31
	duty, 5% OP, synchronizable ³⁾	48 V DC	M33
	 Only possible if the 13th digit of the Article No. = "1" 	110 127 V AC 50/60 Hz/110 125 V DC	M35
		208 240 V AC 50/60 Hz/220 250 V DC	M36
Opening coils (shunt trips) ²⁾³⁾	Not suitable for uninterrupted	24 V DC	M41
	duty, 5% OP, synchronizable	48 V DC	M43
		110 127 V AC 50/60 Hz/110 125 V DC	M45
		208 240 V AC 50/60 Hz/220 250 V DC	M46
Auxiliary switches and	signaling switches		
Position signaling switches for guide for	rames	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 (S2	0) 1 NO	C22
	Spring charged signaling switch 4) (S21) 1 NO	C20
	For the first auxiliary release 5) (S22) 1 CO	C26
	For the second auxiliary release 5) (S	523) 1 CO	C27
	1st tripped signaling switch 4) 6) (S24	4) 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 No. 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 "communications interface" 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

To specify the options, add "-Z" to the appropriate order code(s).	e complete Article No. and ind	icate the	3WLZ	Order code
			3112	_
Further accessories				
Pushbuttons/shutdown switch	hes/closing lockouts			
EMERGENCY-OFF pushbuttons	Mushroom pushbutton instead of			S24
	the mechanical OFF pushbutton			324
Electrical ON button on operator panel ¹⁾ (S10)	This prevents unauthorized electric the operator panel. Mechanical clo closing remain possible. Possible o breakers with closing coil (CC)	sing 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		у	S25
Special packaging for increas	ed transport requiremen	nts (moisture	protection)	
Cardboard packaging with water-repellen				A61
	, , , , , , , , , , , , , , , , , , ,	•		
Shutters				
Shutter: 2-part, lockable, with padlocks 3)	3-pole/4-pole		Sizes 1, 2, 3	R21
Interlocking				
Mechanical interlocks				
• Interlocking module with Bowden cable 2	m			
Mutual mechanical interlockings		For fixed-mount	ed breakers	S55
			e circuit breakers with guide frame	R55
			s (ordered separately)	R56
		FOI WILITUTAWADI	e circuit breakers (ordered separately)	R57
Locking provisions (for fixed- The disconnector unit fulfills the requirem				
	To prevent unauthorized closing	-		S01
Locking provisions	from the operator panel	Made by CES Made by IKON		S03
			RTRESS or CASTELL 4)	S05
		Assembly kit for	padlocks 3)	S07
		Made by RONIS		S08
		Made by PROFAI	LUX	S09
Locking provisions (for fixed-	mounted and withdrawa	able versions	·)	
Locking provisions	For operating mechanism handle,	with padlock 3)		S33
Locking provisions (for withd • The disconnector unit fulfills the requirem active in the connected position, function • Not possible in combination with order combination.	nents for main circuit breakers acc. to is retained when circuit breaker is re		isting of a lock in the guide frame,	
Locking provisions	To prevent unauthorized closing	Made by CES		R61
	from the operator panel	Made by RONIS	LIN.	R68
		Made by PROFAI	LUX	R60

Not possible with "communications interface" option, order code "F02", "F12" or "F35".

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 t			
appropriate order code(s).	the complete Article No. and in	dicate the 3WLZ	Order code
Interlocking			
Locking provisions (for withSafety 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
, , , , , , , , , , , , , , , , , , ,	order for a circuit breaker with a guid	de frame or when ordering the guide frame separately	
For fixed-mounted circuit breakers	To prevent opening of the cabine	•	S30
For withdrawable circuit breakers	To prevent opening of the cabine		
	_ ' ' '	•	R30
Locking mechanisms to previous disconnected position Consisting of Bowden cable and lock in Not possible in combination with order	To prevent movement when the vent movement of the with the control cabinet door	ithdrawable circuit breakers in	R30 R50
disconnected position Consisting of Bowden cable and lock in	To prevent movement when the vent movement of the with the control cabinet door	ithdrawable circuit breakers in	
disconnected position Consisting of Bowden cable and lock in Not possible in combination with order	To prevent movement when the vent movement of the with the control cabinet door	ithdrawable circuit breakers in	R50
disconnected position Consisting of Bowden cable and lock in Not possible in combination with order Made by CES	To prevent movement when the vent movement of the with the control cabinet door	ithdrawable circuit breakers in	R50

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Further technical specifications

Manual operating mechanism		3WL5	
Switching on/charging the stored-energy operating me	echanism		
Maximum force required to operate the hand lever		≤230 N	
Required number of strokes on the hand lever		9	
•			
Closing coils		3WL5	
Primary operating range			
Version		For continuous command (100 % ED)	5 % ED
Primary operating range		0.85 1.1 × U _s	0.85 1.1 × U _s
Extended operating range for battery operation	24 30 V DC, 48 60 V DC 110 125 V DC 220 250 V DC	0.85 1.26 × U _s	0.85 1.26 × U _s
Rated voltage			
Rated control supply voltage U_s	50/60 Hz AC	110 127 V, 208 240 V	
	DC	24 V, 30 V, 48 V, 60 V, 110.	125 V, 220 250 V
Operation			
Closing power		40 W/40 VA	≤ 60 V: 200 W ≥ 110 V: 250 W
Continuous power		8 W/8 VA	-
Minimum command duration at 100% U _s		60 ms	60 ms
Maximum command duration at 100% U _s	AC/DC	-	2000 ms
Make time of the circuit breaker at 100% $U_{\rm s}$		100 ms	50 ms
Fuse protection of the control circuit at U_s for closing of	oil		
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
Fuse protection of the control circuit at U_s for motorize	ed 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
	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		3WL5	
Primary operating range			
Primary operating range		0.85 1.1 × <i>U</i> _s	
Extended operating range for battery operation	At 24 V DC, 48 V DC	0.7 1.26 × U _s	
Extended operating range for battery operation	60 V DC, 110 V DC 220 V DC	0.7 1.20 × 0 _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)/	At $U_s = 24 30 \text{ V}$	6 A	
automatic circuit breaker with C characteristic	At $U_{\rm s} = 48 \dots 60 \text{ V}$	6 A	
(for different rated control supply voltages)	At <i>U</i> _s = 110 125 V DC/ 110 127 V AC	2 A	
	At U _s = 220 250 V DC/	2 A	
	208 240 V AC		

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%; metering function for base quantities ≤1%; metering function for derived quantities ≤4%
Undervoltage releases UVR (F3) and U	VR-t _d (F4)	3WL5
Primary operating range		
Response values	Pickup	\geq 0.85 × $U_{\rm s}$ (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 × <i>U</i> _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 × <i>U</i> _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

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Further technical specifications

Primary operating range		3WL5		
Primary operating range Version		For continuous command (100% OP), locks out on momentary -contact commands	5% OP	With spring energy store consisting of shunt trip and capa citor storage device
Primary operating range		0.85 1.1 × U _s	0.85 1.1 × U _s	0.85 1.1 × U _s
Extended operating range for battery operation		0.85 1.26 × U _s	0.85 1.26 × U _s	
Response values	Pickup	$>0.7 \times U_s$ (circuit breaker is tripped)	>0.7 × U _s (circuit breaker is tripped)	-
Rated operational voltage				
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 _s		60 ms	60 ms	-
Maximum command duration at 100% U _s		-	2000 ms	-
Opening time of the circuit breaker at 100% <i>U</i> _s		80 ms	50 ms	80 ms
Storage time at U_s /Recharging time at U_s		-	-	max. 5 min/min. 5
Fuse protection of the control circuit at Us 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 220 250 V DC/208 240 V AC	1 A 1 A	4 A 2 A	-
Remote reset magnet for mechanical t	ripped indicator (F7)	3WL5		
	ripped indicator (F7)	3WL5		
Remote reset magnet for mechanical t Primary operating range Primary operating range	ripped indicator (F7)	3WL5 0.85 1.1 × U _s		
Primary operating range	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC			
Primary operating range Primary operating range Extended operating range for battery operation Operation	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC	0.85 1.1 × U _s 0.7 1.26 × U _s		
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC	0.85 1.1 × <i>U</i> _s 0.7 1.26 × <i>U</i> _s		
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption Min. command duration at U _s for the remote reset magne	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC	0.85 1.1 × U _s 0.7 1.26 × U _s		
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption Min. command duration at U _s for the remote reset magne Short-circuit protection	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC	0.85 1.1 × U _s 0.7 1.26 × U _s 60 VA/60 W 60 ms		
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption Min. command duration at U _s for the remote reset magne	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC	0.85 1.1 × <i>U</i> _s 0.7 1.26 × <i>U</i> _s	-	
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption Min. command duration at U_s for the remote reset magne Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC AC/DC	0.85 1.1 × U _s 0.7 1.26 × U _s 60 VA/60 W 60 ms 2 A TDz (slow)/2 A	-	
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption Min. command duration at U_s for the remote reset magne Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic Contact position-driven auxiliary switc	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC AC/DC	0.85 1.1 × U _s 0.7 1.26 × U _s 60 VA/60 W 60 ms 2 A TDz (slow)/2 A 1 A TDz (slow)/1 A	-	
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption Min. command duration at U_s for the remote reset magne Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic Contact position-driven auxiliary switc Rated voltage Rated insulation voltage U_i	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC AC/DC t	0.85 1.1 × U _s 0.7 1.26 × U _s 60 VA/60 W 60 ms 2 A TDz (slow)/2 A 1 A TDz (slow)/1 A	-	
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption Min. command duration at U_s for the remote reset magne Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic Contact position-driven auxiliary switc Rated voltage Rated insulation voltage U_i Rated operational voltage U_e	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC AC/DC t	0.85 1.1 × U _s 0.7 1.26 × U _s 60 VA/60 W 60 ms 2 A TDz (slow)/2 A 1 A TDz (slow)/1 A 3WL5	-	
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption Min. command duration at U_s for the remote reset magne Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic Contact position-driven auxiliary switc Rated voltage Rated insulation voltage U_i Rated operational voltage U_e Rated impulse withstand voltage U_{imp}	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC AC/DC t	0.85 1.1 × U _s 0.7 1.26 × U _s 60 VA/60 W 60 ms 2 A TDz (slow)/2 A 1 A TDz (slow)/1 A 3WL5 500 V 500 V 4 kV	at > 100 V DC and	
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption Min. command duration at U_s for the remote reset magne Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic Contact position-driven auxiliary switc Rated voltage Rated insulation voltage U_i Rated operational voltage U_e Rated impulse withstand voltage U_{imp} Contact reliability	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC AC/DC t	0.85 1.1 × U _s 0.7 1.26 × U _s 60 VA/60 W 60 ms 2 A TDz (slow)/2 A 1 A TDz (slow)/1 A 3WL5	at > 100 V DC and	
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption Min. command duration at U_s for the remote reset magne Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic Contact position-driven auxiliary switc Rated voltage Rated insulation voltage U_i Rated operational voltage U_e Rated impulse withstand voltage U_{imp} Contact reliability	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC AC/DC t	0.85 1.1 × U _s 0.7 1.26 × U _s 60 VA/60 W 60 ms 2 A TDz (slow)/2 A 1 A TDz (slow)/1 A 3WL5 500 V 500 V 4 kV	at > 100 V DC and	
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption Min. command duration at U_s for the remote reset magne Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC AC/DC t	0.85 1.1 × U _s 0.7 1.26 × U _s 60 VA/60 W 60 ms 2 A TDz (slow)/2 A 1 A TDz (slow)/1 A 3WL5 500 V 500 V 4 kV	at > 100 V DC and	100 V AC
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption Min. command duration at U_s for the remote reset magne Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic Contact position-driven auxiliary switc Rated voltage Rated insulation voltage U_i Rated operational voltage U_e Rated impulse withstand voltage U_{imp} Contact reliability Breaking capacity	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC AC/DC t AC/DC AC/DC AC/DC AC/DC AC/DC Rated operational voltage U _e	0.85 1.1 × U _s 0.7 1.26 × U _s 60 VA/60 W 60 ms 2 A TDz (slow)/2 A 1 A TDz (slow)/1 A 3WL5 500 V 500 V 4 kV From 1 mA at 5 V E	at > 100 V DC and	100 V AC
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption Min. command duration at U_s for the remote reset magne Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic Contact position-driven auxiliary switc Rated voltage Rated insulation voltage U_i Rated operational voltage U_e Rated impulse withstand voltage U_{imp} Contact reliability Breaking capacity	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC AC/DC t AC/DC Rated operational voltage U_e Rated operational current I_e/AC -12 Rated operational current I_e/AC -15 Rated operational voltage U_e	0.85 1.1 × U _s 0.7 1.26 × U _s 60 VA/60 W 60 ms 2 A TDz (slow)/2 A 1 A TDz (slow)/1 A 3WL5 500 V 500 V 4 kV From 1 mA at 5 V E 24 230 V 10 A	at > 100 V DC and OC 380 V, 10 A 3 A	100 V AC 400 V
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption Min. command duration at U_s for the remote reset magne Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic Contact position-driven auxiliary switce Rated voltage Rated insulation voltage U_i Rated operational voltage U_e Rated impulse withstand voltage U_{imp} Contact reliability Breaking capacity Alternating current 50/60 Hz	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC AC/DC t AC/DC Rated operational voltage U_e Rated operational current I_e/AC -12 Rated operational current I_e/AC -15 Rated operational voltage U_e Rated operational current I_e/AC -15 Rated operational current I_e/AC -15 Rated operational current I_e/AC -12	0.85 1.1 × U _s 0.7 1.26 × U _s 60 VA/60 W 60 ms 2 A TDz (slow)/2 A 1 A TDz (slow)/1 A 3WL5 500 V 500 V 4 kV From 1 mA at 5 V D 24 230 V 10 A 4 A 24 V 48 N 10 A 8 A	at > 100 V DC and 380 V, 10 A 3 A 7 110 V 3.5 A	400 V 220 V 1 A
Primary operating range Primary operating range Extended operating range for battery operation Power consumption Min. command duration at U _s for the remote reset magne Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic Contact position-driven auxiliary switce Rated voltage Rated insulation voltage U _i Rated operational voltage U _e Rated impulse withstand voltage U _{imp} Contact reliability Breaking capacity Alternating current 50/60 Hz	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC AC/DC t AC/DC Rated operational voltage U_e Rated operational current I_e/AC -12 Rated operational current I_e/AC -15 Rated operational voltage U_e	0.85 1.1 × U _s 0.7 1.26 × U _s 60 VA/60 W 60 ms 2 A TDz (slow)/2 A 1 A TDz (slow)/1 A 3WL5 500 V 500 V 4 kV From 1 mA at 5 V D 24 230 V 10 A 4 A 24 V 48 N	at > 100 V DC and 380 V, 10 A 3 A 7 110 V	100 V AC 400 V
Primary operating range Primary operating range Extended operating range for battery operation Operation Power consumption Min. command duration at U_s for the remote reset magne Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic Contact position-driven auxiliary switce Rated voltage Rated insulation voltage U_i Rated operational voltage U_e Rated impulse withstand voltage U_{imp} Contact reliability Breaking capacity Alternating current 50/60 Hz	At 24 30 V DC, 48 60 V DC 110 125 V DC, 220 250 V DC AC/DC t AC/DC Rated operational voltage U_e Rated operational current I_e/AC -12 Rated operational current I_e/AC -15 Rated operational voltage U_e Rated operational current I_e/AC -15 Rated operational current I_e/AC -15 Rated operational current I_e/AC -12	0.85 1.1 × U _s 0.7 1.26 × U _s 60 VA/60 W 60 ms 2 A TDz (slow)/2 A 1 A TDz (slow)/1 A 3WL5 500 V 500 V 4 kV From 1 mA at 5 V D 24 230 V 10 A 4 A 24 V 48 N 10 A 8 A	at > 100 V DC and 380 V, 10 A 3 A 7 110 V 3.5 A	400 V 220 V 1 A

Breaking capacity		3WL5		
Alternating current 50/60 Hz	Rated operational voltage $U_{\rm e}$	250 V		
	Rated operational current I	8 A		
Direct current	Rated operational voltage U_e	125 V		250 V
	Rated operational current I _e	0.4 A		0.2 A
	Contact reliability	From 1 mA at	5 V DC	
Short-circuit protection				
Largest permissible DIAZED fuse (operational class gL)		2 A Dz (quick)		
Tripped signaling switches (S24) and sor auxiliary releases (S22, S23) (acc. 1		3WL5		
Breaking capacity		2501/		
Alternating current 50/60 Hz	Rated operational voltage $U_{\rm e}$	250 V		
Divert august	Rated operational current I _e /AC-12	8 A	125.1/	250.1/
Direct current	Rated operational current LIDC 12	24 V	125 V	250 V
	Rated operational current I _e /DC-12	6 A From 1 mA at	0.4 A	0.2 A
Chaut aivenit avatastiau	Contact reliability	From 1 mA at	5 V DC	
Short-circuit protection Largest permissible DIAZED fuse (operational class gL)		6 A Dz (quick)		
Tripped signaling switches		6 A Dz (quick)		
		Until manual o	or electrical ren	note reset (option)
Signal duration after tripping	rame	Until manual o	or electrical ren	note reset (option)
Signal duration after tripping Position signaling switches on guide f			or electrical ren	note reset (option)
Signal duration after tripping Position signaling switches on guide f	"Circuit breaker in connected position"		or electrical ren	note reset (option) 1 CO
Signal duration after tripping Position signaling switches on guide f	"Circuit breaker in connected position" "Circuit breaker in test position"	3WL5 3 CO 2 CO		1 CO 1 CO
Signal duration after tripping Position signaling switches on guide f	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected	3WL5	or	1 CO
Signal duration after tripping Position signaling switches on guide f Type of contacts Message	"Circuit breaker in connected position" "Circuit breaker in test position"	3WL5 3 CO 2 CO	or or or	1 CO 1 CO
Signal duration after tripping Position signaling switches on guide for the sum of the	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected	3 CO 2 CO 1 CO	or or or	1 CO 1 CO
Contact reliability Rated operational voltage	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected	3 CO 2 CO 1 CO	or or or	1 CO 1 CO
Signal duration after tripping Position signaling switches on guide for the sum of the	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position"	3 CO 2 CO 1 CO From 1 mA at	or or or	1 CO 1 CO
Contact reliability Rated operation voltage Rated insulation after tripping Right Signal duration after tripping Rated insulation voltage Rated insulation voltage U _i	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position" 50/60 Hz AC	3WL5 3 CO 2 CO 1 CO From 1 mA at	or or or	1 CO 1 CO
Signal duration after tripping Position signaling switches on guide for the sum of the	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position" 50/60 Hz AC	3 CO 2 CO 1 CO From 1 mA at 440 V 250 V	or or or	1 CO 1 CO
Fosition signaling switches on guide for the state of th	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position" 50/60 Hz AC	3 CO 2 CO 1 CO From 1 mA at 440 V 250 V 250 V	or or or	1 CO 1 CO
Signal duration after tripping Position signaling switches on guide for the sum of the	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position" 50/60 Hz AC DC	3WL5 3 CO 2 CO 1 CO From 1 mA at 440 V 250 V 250 V 4 kV 24 V 10 A, 110 320/440 V 10	or or 5 V DC 0/127 V 10 A, 2 A	1 CO 1 CO 1 CO
Fosition signaling switches on guide for the state of th	"Circuit breaker in connected position" "Circuit breaker in test position" "Circuit breaker in disconnected position" 50/60 Hz AC DC I _e /AC-12	3WL5 3 CO 2 CO 1 CO From 1 mA at 440 V 250 V 250 V 4 kV 24 V 10 A, 110 320/440 V 10 220/240 V 4 A	or or 5 V DC 0/127 V 10 A, 2 A , 320/440 V 3 /	1 CO 1 CO 1 CO
Signal duration after tripping Position signaling switches on guide for the sum of the	"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	3WL5 3 CO 2 CO 1 CO From 1 mA at 440 V 250 V 250 V 4 kV 24 V 10 A, 110 320/440 V 10 220/240 V 4 A 24 V 10 A, 48	or or 5 V DC 0/127 V 10 A, 2 A , 320/440 V 3 / V 2.5 A, 220/24	1 CO 1 CO 1 CO
Signal duration after tripping Position signaling switches on guide for the sum of the	"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	3WL5 3 CO 2 CO 1 CO From 1 mA at 440 V 250 V 250 V 4 kV 24 V 10 A, 110 320/440 V 10 220/240 V 4 A 24 V 10 A, 48 24 V 3.0 A, 22	or or 5 V DC 5/127 V 10 A, 2 A , 320/440 V 3 / V 2.5 A, 220/24	1 CO 1 CO 1 CO
Signal duration after tripping Position signaling switches on guide for the sum of the	"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)	3WL5 3 CO 2 CO 1 CO From 1 mA at 440 V 250 V 250 V 4 kV 24 V 10 A, 110 320/440 V 10 220/240 V 4 A 24 V 10 A, 48 24 V 3.0 A, 22 120 V 6 A, 240	or or 5 V DC 5 V DC 5 V DC 5 V DC 5 V DC 0/127 V 10 A, 2 A , 320/440 V 3 / V 2.5 A, 220/24 0/240 V 0.1 A	1 CO 1 CO 1 CO
Position signaling switches on guide for 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	"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	3WL5 3 CO 2 CO 1 CO From 1 mA at 440 V 250 V 250 V 4 kV 24 V 10 A, 110 320/440 V 10 220/240 V 4 A 24 V 10 A, 48 24 V 3.0 A, 22	or or 5 V DC 5 V DC 5 V DC 5 V DC 5 V DC 0/127 V 10 A, 2 A , 320/440 V 3 / V 2.5 A, 220/24 0/240 V 0.1 A	1 CO 1 CO 1 CO
Position signaling switches on guide for Type of contacts Message Contact reliability Rated operational voltage Rated insulation voltage $U_{\rm i}$ Rated operational voltage $U_{\rm e}$ Rated impulse withstand voltage $U_{\rm imp}$ Breaking capacity Rated operational current $I_{\rm e}$	"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)	3WL5 3 CO 2 CO 1 CO From 1 mA at 440 V 250 V 4 kV 24 V 10 A, 110 320/440 V 10 220/240 V 4 A 24 V 10 A, 48 24 V 3.0 A, 22 120 V 6 A, 240 125 V 0.22 A,	or or or 5 V DC 5 V DC 5 V DC 5 V DC 0/127 V 10 A, 2 A , 320/440 V 3 / V 2.5 A, 220/24 0/240 V 0.1 A 0/V 3 A 250 V 0.11 A	1 CO 1 CO 1 CO
Position signaling switches on guide for Type of contacts Message Contact reliability Rated operational voltage Rated insulation voltage $U_{\rm i}$ Rated impulse withstand voltage $U_{\rm imp}$ Breaking capacity Rated operational current $I_{\rm e}$ Short-circuit protection Largest permissible DIAZED fuse (operational class gL) Largest permissible automatic circuit breaker with C cha	"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)	3WL5 3 CO 2 CO 1 CO From 1 mA at 440 V 250 V 250 V 4 kV 24 V 10 A, 110 320/440 V 10 220/240 V 4 A 24 V 10 A, 48 24 V 3.0 A, 22 120 V 6 A, 240	or or or 5 V DC 5 V DC 5 V DC 5 V DC 0/127 V 10 A, 2 A , 320/440 V 3 / V 2.5 A, 220/24 0/240 V 0.1 A 0/V 3 A 250 V 0.11 A	1 CO 1 CO 1 CO

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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 air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

	3V	VL9	5 2		6 7 5	8	9	10	11	12	-	13	13 14	13 14 15 - A
Size (SZ)	1				1									
	3				3									
		SZ 1	SZ 2	SZ 3										
Max. rated current	1000 A		_	_		1								
I _n	1600 A		_	-		2								
	2000 A	_		-		3								
	2500 A	_		-		4								
	3000 A	_		-		5								
	4000 A	_	-			6								
	5000 A	_	-			7								
Number of poles	3-pole	-					А							
	4-pole		•				В							
Main 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	1
						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, st	tandard)				1				
	With screwless terminals (tension	on spring)				2				
Position signaling	Without						0			
switches	1 CO 1 CO 1 CO (connected	I test I isolated pos	sition)				1			
	3 CO 2 CO 1 CO (connected						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

With the rating plug selected, the maximum rated current I, mass of the circuit breaker must not be seceed. The following applies: I, et al., et al.		electronic trip units Err			
Type					
ETU458 (without display) LSIN(G) Without 3M934-5AA00-0AA1 With metering function Plus 3M934-5AA00-0AA1 3M934-5AA20-DAA1 3M934-5AA30-DAA1 3M934-5AA00-DAA1 3M934-5AA00-DAA1 3M934-5AA00-DAA1 3M934-5AA00-DAA1 3M934-5AA0					A -12 A1
Rating plugs	// ***********************************	•		-	
### State plugs - With the rating plug selected, the maximum rated current I _{n max} of the circuit breaker must not be exceeded. The following applies: I _n , ≤I _{n max} Size Rated current I _n Article No.		ETU45B (without display)	LSIN(G)		
With the rating plug selected, the maximum rated current I, mass of the circuit breaker must not be seceed. The following applies: I, et al., et al.	• • •			With metering function Plus	3WL9354-5AA20-0AA1
Rated current I	Rating plugs				
Article No.		 With the rating plug selected exceeded. The following approximately 	ed, the maximum rated current $I_{n \text{ max}}$ oplies: $I_n \leq I_{n \text{ max}}$.	of the circuit breaker must not be	
Season S	NSE0_00992b				Article No.
		1, 2	250 A		3WL9111-2AA51-0AA0
Son A 3WL9111-2AA54-0AA0 3WL9111-2AA55-0AA0 3WL9111-2AA55-0AA0 3WL9111-2AA55-0AA0 3WL9111-2AA55-0AA0 3WL9111-2AA55-0AA0 3WL9111-2AA55-0AA0 3WL9111-2AA55-0AA0 3WL9111-2AA55-0AA0 3WL9111-2AA57-0AA0 3WL9111-2AA65-0AA0 3WL9111-2AA61-0AA0 3WL9111-2AA62-0AA0 3WL9111-2AA62-0AA0 3WL9111-2AA62-0AA0 3WL9111-2AA62-0AA0 3WL9111-2AA77-0AA0			315 A		3WL9111-2AA52-0AA0
			400 A		3WL9111-2AA53-0AA0
			500 A		3WL9111-2AA54-0AA0
1,2,3 1250 A 3WL9111-2AA57-0AA0 1,2,3 1250 A 3WL9111-2AA58-0AA0 3WL9111-2AA58-0AA0 3WL9111-2AA58-0AA0 3WL9111-2AA61-0AA0 3WL9111-2AA61-0			630 A		3WL9111-2AA55-0AA0
1, 2, 3			800 A		3WL9111-2AA56-0AA0
1600 A 3WL9111-2AA61-0AA0			1000 A		3WL9111-2AA57-0AA0
2, 3 2000 A 3WL9111-2AA62-0AA0 2500 A 3WL9111-2AA63-0AA0 3WL9111-2AA63-0AA0 3WL9111-2AA63-0AA0 3WL9111-2AA67-0AA0 3WL9111-2AA65-0AA0 3WL9111-2AA66-0AA0 3WL9111-2AA64-0AA0 3WL		1, 2, 3	1250 A		3WL9111-2AA58-0AA0
2500 A 3WL9111-2AA63-0AA0 3WL9111-2AA63-0AA0 3000 A 3WL9111-2AA67-0AA0 3UL9111-2AA67-0AA0 3UL9111-2AA65-0AA0 3UL9111-2AA65-0AA0 3WL9111-2AA65-0AA0 3WL9111-2A			1600 A		3WL9111-2AA61-0AA0
2500 A 3WL9111-2AA63-0AA0 3WL9111-2AA63-0AA0 3000 A 3WL9111-2AA67-0AA0 3UL9111-2AA67-0AA0 3UL9111-2AA65-0AA0 3UL9111-2AA65-0AA0 3WL9111-2AA65-0AA0 3WL9111-2A		2, 3	2000 A		3WL9111-2AA62-0AA0
3200 A 3WL9111-2AA64-0AA0			2500 A		
3200 A 3WL9111-2AA64-0AA0					3WL9111-2AA77-0AA0
## SECOND A SWL9111-2AA65-0AA0 SOOD A SWL9111-2AA66-0AA0 SWL9111-2AA60-0AA0 SWL9111-0AA21-0AA0 SWL9111-0AA22-0AA0 SWL9111-0AA22-0AA0 SWL9111-0AA22-0AA0 SWL9111-0AA22-0AA0 SWL9111-0AA22-0AA0 SWL9111-0AA22-0AA0 SWL9111-0AA22-0AA0 SWL9111-0AA22-0AA0 SWL9111-0AA23-0AA0 SWL9111-0AA32-0AA0 SWL9111-0AA32-0AA0 SWL9111-0AA32-0AA0 SWL9111-0AA32-0AA0 SWL9111-0AA32-0AA0 SWL9111-0AA33-0AA0 SWL9111-0A			3200 A		
For ETU Version Size Atticle No. ETU458 4-line 3WL9111-0AA21-0AA0 EVersion Size Article No. For mounting on busbar 1 2 2 3WL9111-0AA21-0AA0 3 3WL9111-0AA21-0AA0 3 3WL9111-0AA23-0AA0 EVERSION Size 3 3WL9111-0AA33-0AA0 EVERSION Size 3 3WL9111-		3			
For ETU Version Size Atticle No. External current transformer For N conductor For mounting on busbar For mounting on busbar For mounting on busbar For busbar connection For busb		_			
For direct metering of the ground-fault current, e.g., in the star point of the transformer, a 1200 A/1 A current transformer, class 1, is required. The internal load of the 3WL circuit breaker is 0.11 \(\Omega \). If the ground-fault current is to be determined using the vectorial sum of the phases, a transformer must be installed in the neutral conductor. Type	Ground-fault module	25			
GFM AT 45B ETU45B SU45B SW19111-2AT53-0AA0 Display For ETU Version Article No. ETU45B 4-line SW291111-1AT81-0AA0 External current transformers for N conductor Version Size Article No. For mounting on busbar 1 SW29111-0AA21-0AA0 3 SW29111-0AA22-0AA0 3 SW29111-0AA22-0AA0 3 SW29111-0AA23-0AA0 3 SW29111-0AA23-0AA0 3 SW29111-0AA31-0AA0 3 SW29111-0AA31-0AA0 3 SW29111-0AA31-0AA0 3 SW29111-0AA31-0AA0 3 SW29111-0AA31-0AA0 3 SW29111-0AA31-0AA0 SW2911	NSE0_01027a	 For direct metering of the c a 1200 A/1 A current transf 0.11 Ω. If the ground-fault 	ormer, class 1, is required. The inter current is to be determined using th	nal load of the 3WL circuit breaker is	
For ETU Version Article No. ETU45B 4-line 3WL9111-1AT81-0AA0 External current transformers for N conductor Version Size Article No. For mounting on busbar 1 3WL9111-0AA21-0AA0 2 3WL9111-0AA22-0AA0 3 3WL9111-0AA23-0AA0 For busbar connection 1 3WL9111-0AA33-0AA0 2 3WL9111-0AA33-0AA0 EMC filter - Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters) - Insertion loss (asymmetric) in the range 40 kHz to 10 MHz > 40 dB. Types Article No.		Туре	Accessory for		Article No.
For ETU Version Article No.		GFM AT 45B	ETU45B		3WL9111-2AT53-0AA0
ETU45B 4-line 3WL9111-1AT81-0AA0 External current transformers for N conductor Version Size Article No. For mounting on busbar 1 3WL9111-0AA21-0AA0 2 3WL9111-0AA22-0AA0 3 3WL9111-0AA23-0AA0 4 3WL9111-0AA23-0AA0 5 For busbar connection 1 3WL9111-0AA31-0AA0 2 3WL9111-0AA31-0AA0 3 3WL9111-0AA31-0AA0 5 For busbar connection 1 3WL9111-0AA31-0AA0 5 COmmon-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters) 6 Insertion loss (asymmetric) in the range 40 kHz to 10 MHz > 40 dB. Types Article No.	Display				
External current transformers for N conductor Version Size Article No. For mounting on busbar 1 3WL9111-0AA21-0AA0 2 3WL9111-0AA22-0AA0 3 3WL9111-0AA23-0AA0 For busbar connection 1 3WL9111-0AA31-0AA0 2 3WL9111-0AA31-0AA0 2 3WL9111-0AA31-0AA0 EMC filter • Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters)		For ETU	Version		Article No.
External current transformers for N conductor Version For mounting on busbar 2 3WL9111-0AA21-0AA0 3WL9111-0AA22-0AA0 3WL9111-0AA23-0AA0 For busbar connection 1 3WL9111-0AA31-0AA0 2 3WL9111-0AA31-0AA0 3WL9111-0AA31-0AA0 2 3WL9111-0AA31-0AA0 3WL9111-0AA31-0AA0 3WL9111-0AA31-0AA0 2 3WL9111-0AA31-0AA0 3WL9111-0AA31-0AA0 EMC filter • Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters) • Insertion loss (asymmetric) in the range 40 kHz to 10 MHz >40 dB. Types Article No.	•	ETU45B	4-line		3WL9111-1AT81-0AA0
Version Size Article No. For mounting on busbar 1 3WL9111-0AA21-0AA0 2 3WL9111-0AA22-0AA0 3 3WL9111-0AA23-0AA0 For busbar connection 1 3WL9111-0AA31-0AA0 2 3WL9111-0AA31-0AA0 2 3WL9111-0AA31-0AA0 3 WL9111-0AA31-0AA0 EMC filter - Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters)		sformers for N conductor			_
For mounting on busbar 2 3WL9111-0AA21-0AA0 2 3WL9111-0AA22-0AA0 3WL9111-0AA23-0AA0 3WL9111-0AA23-0AA0 4 For busbar connection 1 3WL9111-0AA31-0AA0 2 3WL9111-0AA31-0AA0 3WL9111-0AA31-0AA0 3WL9111-0AA31-0AA0 4 BMC filter - Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters) - Insertion loss (asymmetric) in the range 40 kHz to 10 MHz >40 dB. Types Article No.	External current train		Size		Article No.
2 3WL9111-0AA22-0AA0 3 3WL9111-0AA23-0AA0 For busbar connection 1 3WL9111-0AA31-0AA0 2 3WL9111-0AA32-0AA0 3 3WL9111-0AA31-0AA0 EMC filter - Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters)	\rightarrow				
For busbar connection 1 3WL9111-0AA31-0AA0 2 3WL9111-0AA32-0AA0 3 WL9111-0AA31-0AA0 3 WL9111-0AA32-0AA0 3 WL9111-0AA32-0AA0 3 WL9111-0AA32-0AA0 EMC filter - Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters) - Insertion loss (asymmetric) in the range 40 kHz to 10 MHz >40 dB. Types Article No.		. o. meaning on zasza.			
For busbar connection 1 3WL9111-0AA31-0AA0 2 3WL9111-0AA32-0AA0 3 WL9111-0AA33-0AA0 EMC filter - Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters) - Insertion loss (asymmetric) in the range 40 kHz to 10 MHz >40 dB. Types Article No.	NSEO_00990a				
2 3WL9111-0AA32-0AA0 3 WL9111-0AA33-0AA0 EMC filter	\rightarrow	For bushar connection			
**Suppose **Supp		. s. busbur conficction			
 Common-mode interference suppressor filters (e.g. in IT networks, caused by frequency converters) Insertion loss (asymmetric) in the range 40 kHz to 10 MHz >40 dB. Types Article No.	NSE0_00991a				
(e.g. in IT networks, caused by frequency converters) • Insertion loss (asymmetric) in the range 40 kHz to 10 MHz >40 dB. Types Article No.	EMC filter				
Types Article No.		(e.g. in IT networks, caused	by frequency converters)	dB.	
**					Article No.
		Only for ETU release 2			3WL9111-0AK32-0AA0

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Accessories and spare parts

Accessories for electronic trip units ETU

Sealable and lockable covers Accessory for Article No. ETU25B and ETU45B 3WL9111-0AT45-0AA0 Automatic reset of the reclosing lockout Article No. 3WL9111-0AK21-0AA0 Spare part for option K01 Remote reset magnets • For mechanical tripped indicator Spare part for options K10 to K13 • Note: Automatic reset of the reclosing lockout 3WL9111-0AK21-0AA0 is also required Article No. 24 ... 30 V DC 3WA9111-0EM42 48 ... 60 V DC 3WA9111-0EM44 120 V AC/125 V DC 3WA9111-0FM45 3WA9111-0EM46 208 ... 250 V AC/208 ... 250 V DC Retrofittable internal wiring Male connector **Accessory for** Article No. Internal wiring of CubicleBUS for Without male connector for ETU45B 3WL9111-0AK30-0AA0 connection to terminal X8 retrofitting the communication For connection of the external N Not for ETU Release 2 3WL9111-0AK31-0AA0 With male connector

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

Version	Article No.
Without safety lock	3WL9111-0BA21-0AA0
Made by CES	3WL9111-0BA22-0AA0
Made by IKON	3WL9111-0BA24-0AA0

Locking provision to prevent 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

and G transformers to terminal X8

Spare part for options so r to sos		
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

$Locking\ provision\ against\ unauthorized\ closing,\ for\ with drawable\ circuit\ breakers$



- 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.

Locking provisions and interlocks

Locking provisions for on	perating mechanism handle with padlock		
Essening provisions for op	Version	Scope of supply	Article No.
NEC JOSE	Spare part for option S33	Without padlock	3WL9111-0BA71-0AA0
Locking provision to prev	vent movement of the withdrawable circ	uit breaker	
	 Safety lock for mounting onto the circu Spare part for option S71, S75, S76 		
	Туре	Scope of supply	Article No.
NSE0 00986	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	Locks, cylinders and keys included	3WL9111-0BA77-0AA0
	Made by KIRK-Key 1)	Without locks, cylinders or keys	3WL9111-0BA80-0AA0
Interlocking systems			
	 2 of the same keys for 3 circuit breaker Locking provision in OFF position Lock in the operator panel A maximum of 2 circuit breakers can be 		
	Туре		Article No.
	Made by CES		3WL9111-0BA43-0AA0
Locking mechanisms to p	prevent movement of the withdrawable o	ircuit breakers in disconnected position	
NSEO_00987		the cabinet door on the circuit breaker "Locking mechanism to prevent opening of the cabinet door" ism to prevent movement with the cabinet door open"	
	Туре		Article No.
	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 machanisms to r	prevent opening of the cabinet door in Ol	N position	SWESTITI OB/100 O/1/10
NSEO_00988	Fixed-mounted Defeatable Note: Not possible in combination with	n "Locking mechanism to prevent movement of the nected position" (order codes "R81", "R85" or "R86").	
	Version		Article No.
	Spare part for option S30		3WL9111-0BB12-0AA0
Locking mechanisms to p	prevent opening of the cabinet door		
		n "Locking mechanism to prevent movement of the nected position" (order codes "R81", "R85" or "R86").	
	Version		Article No.
	Spare part for option R30		3WL9111-0BB13-0AA0
Locking mechanisms to p	prevent movement with the cabinet door	open	
	·	n "Locking mechanism to prevent movement of the nected position" (order codes "R81", "R85" or "R86").	
	Version		Article No.

 $^{^{\}rm 1)}~$ Locks, cylinders and keys must be ordered from the manufacturer

Spare part for option R50

3WL9111-0BB15-0AA0

Accessories and spare parts

Locking provisions and interlocks

Mutual mechanical inter	lockings			
	• With Bowden cable 2000 mm (one req	uired for each circuit breaker)	
	Туре	When ordered separately	Spare part for	Article No.
	Fixed-mounted circuit breaker	-	Option S55	3WL9111-0BB21-0AA0
NSE0_00989	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 b	oreaker (with ring) for mutual interlockin	g		
	Can be used in all circuit breakers			
				Article No.
NSEO_01886				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, Release 2	for electronic trip units ETU25B to ETU45B	
Mana Managar	For testing the Electronic Trip Unit functions of all 3WL ETUs (Release 1 and Release 2)	
		Article No.
No desirate		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 (spare pa	rt)	
	Version	Article No.
	for 3VA	3VW9011-0AT43
	for 3WL ETU release 1	3VW9011-0AT44

Storage devices

Capacitor storage device	s		
	 For shunt trips Storage time 5 min Also suitable for 3VL circuit bre Note: Rated control supply vol 	eakers tage must match the rated control supply voltage of the shunt trips.	
	Rated control supply voltage/rated operational voltage		Article No.
	50/60 Hz AC	DC	
	220 240 V	220 250 V	3WL9111-0BA14-0AA0

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) Version Contacts Article No. 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 quide frames. If this is not already available, please order additionally **Contacts** Article No. 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 Contacts Article No. Spare part for option K07 1 CO 3WL9111-0AH14-0AA0 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 Version Contacts Article No. 3WL9111-0AH17-0AA0 Spare part for option K06 1 NO Operating cycle counters • Only in conjunction with motorized operating mechanism Version Article No. 3WL9111-0AH07-0AA0 Mechanical Spare part for option C01 Spring charged 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 Version **Contacts** Article No. Spare part for option C20 1 NO 3WL9111-0AH08-0AA0 Position signaling switches for guide frames Version **Contacts** Article No. Spare part for options R15 to R16 1st block (3 CO) 3WL9111-0AH11-0AA0 3WL9111-0AH12-0AA0 2nd block (6 CO) Electrical ON button (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. Version 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 electrical ON button Version Article No. Spare part for option S25 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

Article No. 3WL9111-0BA72-0AA0

Auxiliary conductor connections



Article No.

3WA9111-0AB01

Extension for male connector

• Male connector must be ordered separately

Version Article No. 3WA9111-0AB02 1000 V

Auxiliary supply connection for circuit breakers or guide frames 2

Version

Screw connection (SIGUT)

Article No.

3WA9111-0AB03

Screwless connection (tension spring)

3WL9111-0AB04-0AA0

Coding kits 3



Version Article No.

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

Sliding contact modules for guide frames 4



Article No.

Article No.

3WA9111-0AB08

One-part sliding contact modules for guide frames §



Version Screw connection (SIGUT)

3WL9111-0AB18-0AA0

Blanking blocks for circuit breakers

Article No.

3WA9111-0AB12

For a complete auxiliary current connection you must order:

Fixed-mounted version:

1 + 2 + 3 1 + 4 + 2 or 1 + 5 Withdrawable version:

Auxiliary releases

Closing coils/shunt tri	ps		
2	Version	Voltage	Article No.
	100% OP	24 30 V DC	3WA9111-0AD02
NSED OTODO		48 60 V DC	3WA9111-0AD04
		110 125 V DC/110 127 V AC	3WA9111-0AD05
		220 250 V DC/208 240 V AC	3WA9111-0AD06
Closing coil (CC)			
	For momentary duty, with	cut-off switch S15	
The same of the sa	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-off switch S14	
TO TO TO	Version	Voltage	Article No.
	5 % OP	24 30 V DC	3WA9111-0AD22
	Switching time 50 ms	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.
	Instantaneous	24 V DC	3WA9111-0AE02
		30 V DC	3WL9111-0AE02-0AA0
T T T T T T T T T T T T T T T T T T T		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
	Delayed	48 V DC	3WA9111-0AE13
		110 125 V DC/110 127 V AC	3WA9111-0AE15
The second		220 250 V DC/208 240 V AC	3WA9111-0AE16

Operating mechanism

Motorized operating me	chanisms	
SIEGRA	 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 blocks		
44 0 1(Contacts	Article No.
ALSE 0,01004	2 NO + 2 NC	3WL9111-0AG01-0AA0
	2 NO	3WL9111-0AG02-0AA0
	1 NO + 1 NC	3WL9111-0AG03-0AA0

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Accessories and spare parts

Door sealing frames, hoods, shutters

Door sealing frames					
	Version Spare part for option T40	Article No. 3WL9111-0AP01-0AA0			
Protective covers IP55					
	 Cannot be used in conjunction v Hood removable and can be open 				
					Article No.
NGDO_01008a					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					
	Size	Article No.				
	1 and 2	3WL9111-0AR12-0AA0				
NSE0_01009 G	3	3WL9111-0AR13-0AA0				

Support brackets

Support brackets		
Marian	 For mounting fixed-mounted circuit breakers on vertical plane Only for sizes 1 and 2 (1 set = 2 units) 	
/		Article No.
		3WL9111-0BB50-0AA0

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, CubicleBUS modules and metering functions are available for the electronic trip units ETU45B.

Modules of the CubicleBUS							
	Туре	Article No.					
8 888	Digital output module with rotary	coding switch, relay outputs	3WL9111-1AT26-0AA0				
	Digital output module, configurab	le, relay outputs	3WL9111-1AT20-0AA0				
NSE0 01023a	Digital input module	Digital input module					
NSE0_01023a	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 metering functions are available for the electronic trip units ETU45B.

		<u>'</u>
COM35 PROFINET IO	/ Modbus TCP modules	
AMM	Version	Article No.
PATRICIA MONTO TO	For electronic trip units ETU45B	3WL9111-1AT66-0AA0
COM15 PROFIBUS mo	dule	
	Version	Article No.
	For electronic trip units ETU45B	3WL9111-1AT65-0AA0
COM16 Modbus mod	ule	
	Version	Article No.
	For electronic trip units ETU45B	3WL9111-1AT15-0AA0
Breaker status sensoi	(BSS)	
	Version	Article No.
	For electronic trip units ETU45B	3WL9111-1AT16-0AA0
Metering function Plu	ıs	
	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 co	onnections, single hole at top		
0000	Size	Rated current I _n	Article No.
	1	≤1000 A	3WL9111-0AL01-0AA0
		1250 1600 A	3WL9111-0AL02-0AA0
	2	≤2000 A	3WL9111-0AL03-0AA0
NSEO_01010		≤2500 A	3WL9111-0AL04-0AA0
7		≤3200 A	3WL9111-0AL05-0AA0
	3	≤4000 A	3WL9111-0AL06-0AA0
Front-accessible main co	onnections, single hole at bottom		
0000	Size	Rated current I _n	Article No.
	1	≤1000 A	3WL9111-0AL51-0AA0
		1250 1600 A	3WL9111-0AL52-0AA0
	2	≤2000 A	3WL9111-0AL53-0AA0
NSE0_01010		≤2500 A	3WL9111-0AL54-0AA0
~	<u></u>	≤3200 A	3WL9111-0AL55-0AA0
	3	≤4000 A	3WL9111-0AL56-0AA0
Front-accessible main co	onnections according to DIN 43673	, double hole at top	
9000 9000	Size	Rated current I _n	Article No.
•••••••••••••••••••••••••••••••••••••••	1	≤1000 A	3WL9111-0AL07-0AA0
		1250 1600 A	3WL9111-0AL08-0AA0
	2	≤2000 A	3WL9111-0AL11-0AA0
NSF0 01011		≤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)

Front-accessible main	connections accord	ling to DIN 43673, double hole at bottom	
2000	Size	Rated current I _n	Article No.
	1	≤1000 A ¹)	3WL9111-0AL57-0AA0
		1250 1600 A	3WL9111-0AL58-0AA0
	2	≤2000 A	3WL9111-0AL61-0AA0
NSE0 01011		≤2500 A	3WL9111-0AL62-0AA0
N320_01011		≤3200 A	3WL9111-0AL63-0AA0
	3	≤4000 A	3WL9111-0AL64-0AA0
Rear vertical main con	nections		
	Size	Rated current I _n	Article No.
	1 1)	≤1600 A	3WL9111-0AM01-0AA0
	22)	≤3200 A	3WL9111-0AM02-0AA0
	3	≤6300 A	3WL9111-0AM03-0AA0
NSE0 01012			

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 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)

mam conducte	r connections, w	itilalawabie versions (essential accessor)	,
Front-accessible ma	in connections, single h	ole at top or at bottom 1)	
-	Size	Rated current I _n	Article No.
****	1	≤1000 A	3WL9111-0AN01-0AA0
		1250 1600 A	3WL9111-0AN02-0AA0
	2	≤2000 A	3WL9111-0AN03-0AA0
NSE0 01013		≤2500 A	3WL9111-0AN04-0AA0
14020_01010		≤3200 A	3WL9111-0AN05-0AA0
	3	≤4000 A	3WL9111-0AN06-0AA0
Front-accessible ma	in connections according	g to DIN 43673, double hole at top or at bottom 1)	
Bones	Size	Rated current I _n	Article No.
****	1	≤1000 A	3WL9111-0AN07-0AA0
		1250 1600 A	3WL9111-0AN08-0AA0
0000	2	≤2000 A	3WL9111-0AN11-0AA0
		≤2500 A	3WL9111-0AN12-0AA0
NSE0_01014		≤3200 A	3WL9111-0AN13-0AA0
	3	≤4000 A	3WL9111-0AN14-0AA0

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

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
\. · ` .	4-pole for 4 bars	1	3WL9111-0AN44-0AA0
NGEQ_01017		2	3WL9111-0AN45-0AA0
		3	3WL9111-0AN46-0AA0
Rear vertical main cor	nnections		
Ph.	Size	Rated current I _n	Article No.
	1	≤1000 A	3WL9111-0AN15-0AA0
NSE0_01015		1250 1600 A	3WL9111-0AN16-0AA0
11020_01010	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			
<i>(</i>	Size	Rated current I _n	Article No.
	1	≤1000 A	3WL9111-0AN24-0AA0
		1250 1600 A	3WL9111-0AN25-0AA0
	2	≤2000 A	3WL9111-0AN26-0AA0
N SEO		≤2500 A	3WL9111-0AN27-0AA0
\		≤3200 A	3WL9111-0AN28-0AA0
	3	≤4000 A	3WL9111-0AN31-0AA0

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

Conversion kit

Conversion kit for conv	verting fixed-mounted circuit brea	kers into withdrawable circuit breakers	
	Only for AC circuit breakers/noGuide frames and sliding cont		
	Number of poles	Size	Article No.
	3-pole	1	3WL9111-0BC11-0AA0
		2	3WL9111-0BC12-0AA0
		3	3WL9111-0BC13-0AA0
4-	4-pole	1	3WL9111-0BC14-0AA0
		2	3WL9111-0BC15-0AA0
		3	3WL9111-0BC16-0AA0



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

assured.

Molded Case Circuit Breakers

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A multitude of additional information ...

Information + ordering



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

We offer a comprehensive portfolio of services. You can find your local contacts at

www.siemens.com/lowvoltage/components/contact

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

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

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

... can be found in our online services

Commissioning + operation



SENTRON powerconfig

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

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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)

Classroom 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 ... 3VA55 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 15 ... 800 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 ... 3VA66 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 metering 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
- Available in different sizes with rated currents from 25 ... 1000 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

Switching devices and accessories











Protective functions	3VA51	3VA52	3VA53	3VA54	3VA55	
Size	125 A	250 A	400 A	600 A	800 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 metering 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	
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	•	•	•	•		

[■] Available

⁻ Not available/not present



3VA5 switching devices up to 800 A

Technical data

				3VA51	l		3VA51	1		3VA51		
Basic data				3 (7 (3)			3 77 (3			3 17 (3)		
				1-pole			2 polo			3/4-pole		
Number of poles Size		Α		1-pole 125			2-pole 125			125		
Rated current I _n		A		15 125			15 125			15 125		
Frequency		Hz		0 400			0 400		0 400			
Electrical characteristics according to U	II 490	TIZ		0 400			0 400		0 400			
Rated operational voltage U_a 50/60 Hz AC		V		347		600	Y/347 and	4 480	600	Y/347 and	1.480	
Electrical characteristics according to II		V		347		000	17547 and	u 400	000	17347 and	400	
Rated operational voltage U_e 50/60 Hz AC		V		415			415			690		
Rated insulation voltage U_i	•	V		500			600			800		
Rated impulse withstand voltage U_{imp}		kV		8			8			8		
Breaking capacity (line protection)		K V	S	M	Н	S	M	Н	S	М	Н	
UL breaker type			SEAS	MEAS	HEAS	SEAS	MEAS	HEAS	SEAS	MEAS	HEAS	
Short-circuit breaking capacity acc. to U	II 489		JLAS	IVILAS	TILAS	JLAJ	IVILAS	TILAS	JLAJ	IVILAS	TILAS	
50/60 Hz AC	120 V	kA	65	85	100	_	_	_	_	-	-	
30,00 112710	240 V	kA	-	-	-	65	85	150	65	85	150	
	277 V	kA	25	35	50	-	-	-	_	_	-	
	347 V	kA	14	18	18	_	_	_	_	_	_	
	480 Y/277 V	kA	_	-	-	25	35	65	25	35	65	
	480 V	kA	_	_	_	25	35	65	25	35	65	
	600 Y/347 V	kA	_	_	_	14	18	25	14	18	25	
	600 V	kA	_	_	_	_	-	_	_	_	_	
DC	125 V	kA	14	25	30	14	25	30	_	_	_	
	250 V	kA	_	_	_	50	85	100	50	85	100	
	500 V	kA	_	_	_	_	_	_	50	85	100	
	600 V	kA	_	_	_	_	_	_	50	85	100	
	750 V	kA	_	_	_	_	_	_	_	_	_	
	1000 V	kA	_	_	_	_	_	_	_	_	_	
Short-circuit breaking capacity acc. to I	EC 60947-2											
Rated ultimate short-circuit breaking	240 V	kA	25	36	55	55	85	150	55	85	150	
capacity I _{CU} 50/60 Hz AC ¹⁾	415 V	kA	5	5	5	36	55	70	36	55	70	
	690 V	kA	_	_	-	_	_	_	5	7	10	
Rated operational short-circuit breaking	240 V	kA	25	36	55	55	85	150	55	85	150	
capacity I _{CS} 50/60 Hz AC ¹⁾	415 V	kA	5	5	5	36	55	70	36	55	70	
	690 V	kA	_	_	-	_	_	-	5	5	5	
DC	125 V	kA	14	25	30	14	25	30	_	_	_	
	250 V	kA	-	-	-	50	85	100	50	85	100	
	500 V	kA	-	-	-	-	-	-	50	85	100	
	600 V	kA	-	-	-	-	-	-	50	85	100	
	750 V	kA	-	-	-	-	-	-	-	-	-	
Dimensions	1000 V	kA	-	-	-	-	-	-	-	-	-	
Dimensions	A	mm		25.4			50.8			76.2		
7 7 50 7 35	В	mm		140			140			140		
VSED_01159	С	mm		76.5			76.5			76.5		
LLJ Z	D	mm	93.4				93.4			93.4		

[■] Available — Not available/not present

^{*} On request

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

2) I_{cu} = rated ultimate short-circuit breaking capacity, rms value, according to IEC 60947-2. I_{cs} = rated operational short-circuit breaking capacity, rms value, according to IEC 60947-2.









	3VA52			3VA53				3VA54		3VA55				
2 in 3-pole, 3/4-pole 250 40 250 0 400			2 in 3-pole, 3/4-pole 400 200 400 0 400				n 3-pole, 3/4-p 600 450, 500, 600 0 400		2 in 3-pole, 3/4-pole 800 600, 700, 800 0 400					
		600			600			600		600				
	690 800 8				690 800 8		690 800 8				690 800 8			
	M	Н	С	М	Н	С	М	Н	С	М	н с			
	MFAS	HFAS	CFAS	MJAS	HJAS	CJAS	MLAS	HLAS	CLAS	MMAS	HMAS	CMAS		
	_	-	_	-	-	-	-	_	_	-	-	-		
	85	100	200	85	100	200	85	100	200	85	100	200		
	_	-	_	-	-	_	-	-	_	_	-	-		
	-	-	-	-	_	-	-	-	-	-	-	-		
	35	65	100	35	65	100	35	65	100	35	65	100		
	35	65	100	35	65	100	35	65	100	35	65	100		
	18	25	35	20	25	35	20 25		35	18	25	50		
	18	25	35	20	25	35	20	25	35	18	25	50		
	-	-	-	-	-	-	-	-	-	-	-	-		
	50	85	100	50	85	100	50	85	100	50	85	100		
	50	85	100	50	85	100	50	85	100	50	85	100		
	50	85	100	50	85	100	50	85	100	50	85	100		
	50	85	100	50	85	100	50	85	100	50	85	100		
	50	85	100	6	6	10	6	6	10	18	25	50		
	0.5	100	200	0.5	100	200	0.5	100	200	0.5	100	200		
	85 55	100 70	200 110 (3P)	85 55	100 70	200 110	85 55	100 70	200 110	85 55	100 70	200 110		
	7	10	85 (4P) 10	7	10	10	7	10	10	25	35	35		
	85	100	200	85	100	200	85	100	200	85	100	150		
	55	70	110 (3P) 85 (4P)	55	70	110	55	70	110	55	70	85		
	7	10	10	5	6	6	6	6	6	19	19	19		
	-	-	-	8	16	25	8	16	25	50	85	100		
	50	85	100	8	16	25	8	16	25	50	85	100		
	50	85	100	8	16	25	8	16	25	50	85	100		
	50	85	100	8	16	25	8	16	25	50	85	100		
	50	85	100	-	-	-	-	-	-	50	85	100		
	25	36	50	-	-	-	-	-	-	25	35	50		
		15-			4.5.5			45-			0.5			
		105			138			138			201			
		185			210			210			328			
		83 107			110 137			110 137			120 253			
		107			13/			137			233			

System overview, page 2/20

3VA5 switching devices up to 800 A

Application

					1	
			3VA51	3VA51	3VA51	
Basic data						
Number of poles			1-pole	2-pole	3/4-pole	
Size		А	125	125	125	
Rated current I _n		Α	15 125	15 125	15 125	
Frequency		Hz	0 400	0 400	0 400	
3VA5 molded case circuit breakers for	line protection					
Service life/endurance (operating cycle	es)					
Mechanical (CLOSE-OPEN cycles)			20000	20000	20000	
Electrical for $U_{\rm e}$ 480 V (UL 489)/415 V (IE	C 60947)		8000	8000	8000	
Trip units						
FTFM	TM210		•	•	•	
FTAM	TM230		-	-	•	
ATAM	TM240		-	-		
3VA5 motor circuit protector (protective	e circuit breaker for motor	starter combi	nations)			
Rated current I _n		Α	-	-	15 125	
Breaking capacity acc. to UL 489 without		kA	-	-	65	
Approval acc. to IEC 60947-2 Annex O IC			-	-	•	
Integrated, instantaneous short-circuit		protection				
AM	TM120M		-	-	•	
3VA5 molded case switch						
Electrical characteristics according to L						
Rated uninterrupted current I_n at 40 °C ambient temperature for short-circuit	Up to 65 kA at 480 V	Α	-	100	100	
current rating (SCCR) ²⁾	Up to 100 kA at 480 V	Α	-	-	-	
Approval acc. to IEC 60947-2 Annex L CB	I-X		-			
Integrated, instantaneous short-circuit	release for intrinsic device	protection				
FM	MCS110		-		•	
Standards and specifications						
Standards and specifications			UL 489/CSA C22.2 No. 5, IEC 60947-2	UL 489/CSA C22.2 No. 5, IEC 60947-2	UL 489/CSA C22.2 No. 5, IEC 60947-2	
Direction of power flow and infeed			Top and bottom	Top and bottom	Top and bottom	
Standard connection technology			Without connection technology	Without connection technology	Without connection technology	

[■] Available - Not available/not present

^{*} On request

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

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3VA52	3VA53	3VA54	3VA55				
2 in 3-pole, 3/4-pole							
250	400	600	800				
40 250	200 400	450, 500, 600	600, 700, 800				
0 400	0 400	0 400	0 400				
20000	20000	20000	10000				
8000	6000	3000	4800				
•	-	-	-				
•	•	•					
•	•	•	-				
150 200	250	400, 500, 600	600, 800				
65/100	65/100	65/100	65/100				
•	•	•	•				
•	•	•					
150, 250	400	600	800				
100, 150, 250	400	600	800				
-	-	-					
UL 489/CSA C22.2 No. 5, IEC 60947-2							
Top and bottom	Top and bottom	Top and bottom	Top and bottom				
Without connection technology	Without connection technology	Without connection technology	Nut keeper kit				

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3VA6 switching devices up to 1000 A

Technical data





					-						-				
					3VA6	1			3	3VA62	2				
Basic data															
Number of poles				3/4-pole					3/4-pole						
Size		Α		150					250						
Rated current I _n A		Α			40 150)		100, 250							
Frequency		Hz			50 60	ı		50 60							
Electrical characteristics according to UL	_ 489														
Rated operational voltage U _e 50/60 Hz AC		V			600			600							
Electrical characteristics according to IEC	C 60947-2														
Rated operational voltage $U_{\rm e}$ 50/60 Hz AC		V			690					690					
Rated insulation voltage U _i		V			800					800					
Rated impulse withstand voltage U_{imp}		kV		8					8						
Breaking capacity (line protection)			М	н	С	L	E	М	Н	С	L	E			
UL breaker type			MDAE	HDAE	CDAE	LDAE	EDAE	MFAE	HFAE	CFAE	LFAE	EFAE			
Current limiting according to UL 489			-	_	-	-	-	-	-	-	-				
Short-circuit breaking capacity acc. to Ul	L 489														
50/60 Hz AC	120 V	kA	_	_	_	-	-	-	_	-	-	-			
	240 V	kA	100	100	200	200	-	100	100	200	200	-			
	277 V	kA	-	_	-	-	-	-	-	-	-	-			
	347 V	kA	-	_	-	-	-	-	-	-	-	-			
	480 Y/277 V	kA	35	65	100	150	200	35	65	100	150	200			
	480 V	kA	35	65	100	150	200	35	65	100	150	200			
	600 Y/347 V	kA	18	22	35	50	100	18	22	35	50	100			
	600 V	kA	18	22	35	50	100	18	22	35	50	100			
Short-circuit breaking capacity acc. to IE	C 60947-2														
Rated ultimate short-circuit breaking	240 V	kA	85	110	150	200	-	85	110	150	200	-			
capacity I _{CU}	415 V	kA	55	85	110	150	200	55	85	110	150	200			
50/60 Hz AC ¹⁾	690 V	kA	2.5	2.5	2.5	2.5	3	3	3	3	3	3			
Rated operational short-circuit breaking	240 V	kA	85	110	150	200	-	85	110	150	200	-			
capacity I _{CS}	415 V	kA	55	85	110	150	150	55	85	110	150	150			
50/60 Hz AC ¹⁾	690 V	kA	2.5	2.5	2.5	2.5	3	3	3	3	3	3			
Dimensions															
D	A	mm	1	105 (3P)	140 (4F	?)			105	(3P) 140	(4P)				
NSE0_01159	В	mm			98					198					
	С	mm			36					86					
	D	mm		107					107						

[■] Available - Not available/not present

^{*} On request

 $I_{\rm cu}$ = rated ultimate short-circuit breaking capacity, rms value, according to IEC 60947-2. $I_{\rm cs}$ = rated operational short-circuit breaking capacity, rms value, according to IEC 60947-2.









3VA63								3VA64				3VA65		3VA66				
			3/4-pole					3/4-pole				3/4-pole			3/4-pole			
			400					600				800			1000			
			250, 400					400, 600			600, 800			1000				
			50 60					50 60				50 60		50 60				
			600					600				600		600				
			690			690						690			690			
			800			800						800			800			
			8					8				8			8			
	M	Н	С	L	E	M	Н	С	L	Е	M	Н	С	M	Н	С		
	MJAE	HJAE	CJAE	LJAE	EJAE	MLAE	HLAE	CLAE	LLAE	ELAE	MMAE	HMAE	CMAE	MMNAE	HMNAE	CMNAE		
	-	-	-	-	•	-	-	-	-		-	-	-	-	-	-		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	100	100	200	200	-	100	100	200	200	-	100	150	200	100	150	200		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	35	65	100	150	200	35	65	100	150	200	35	65	100	35	65	100		
	35	65	100	150	200	35	65	100	150	200	35	65	100	35	65	100		
	18	22	35	50	100	18	22	35	50	100	25	35	50	25	35	50		
	18	22	35	50	100	18	22	35	50	100	25	35	50	25	35	50		
	85	110	150	200	-	85	110	150	200	-	85	110	200	85	110	200		
	55	85	110	150	200	55	85	110	150	200	55	85	110	55	85	110		
	5	5	5	5	6	6	6	6	6	6	25	35	35	25	35	35		
	85	110	150	200	-	85	110	150	200	-	85	110	150	85	110	150		
	55	85	110	110	110	55	85	110	110	110	55	85	85	55	85	85		
	5	5	5	5	6	6	6	6	6	6	19	19	19	19	19	19		
		455	(22) 145	(45)											24.0			
		138	(3P) 184	(4P)		138 (3P) 184 (4P)						210			210			
			248			248						328			328			
	110						110					120			120			
	137						137						253			253		

3VA6 switching devices up to 1000 A

Application





			3VA61	3VA62
Basic data				
Number of poles			3/4-pole	3/4-pole
Size		Α	150	250
Rated current I _n		Α	40 150	100, 250
Frequency		Hz	50 60	50 60
3VA6 molded case circuit breakers for I	ine protection			
Service life/endurance (operating cycle	s)			
Mechanical (CLOSE-OPEN cycles)			25000	25000
Electrical for U _e 480 V (UL 489)/415 V (IEC	C 60947)		14000	12000
Trip units				
Ц	ETU320		•	
	ETU820		•	
LIG	ETU330		•	
	ETU830		•	
LSI	ETU350		•	
	ETU550		•	
	ETU850		•	
LSI LSI	ETU556		•	
(G alarm, no integrated G protection)	ETU856		•	•
LSIG	ETU560		-	•
	ETU860		•	•
Motor circuit protector (protective circu	uit breaker for motor start	er combinatior	ns) 3VA6	
Rated current I _n		А	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 ICE	3		-	•
Integrated, instantaneous short-circuit	release for intrinsic device	e protection		
1	ETU310M		•	
Standards and specifications				
Standards and specifications			UL 489/CSA C22.2 No. 5/ IEC 60947-2	UL 489/CSA C22.2 No. 5/ IEC 60947-2
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

^{*} On request

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









3VA63	3VA64	3VA65	3VA66		
3/4-pole	3/4-pole	3/4-pole	3/4-pole		
400	600	800	1000		
250, 400	400, 600	600, 800	1000		
50 60	50 60	50 60	50 60		
20000	20000	10000	10000		
6000	4000	5100	4900		
•	•	•			
•	•	•			
•	•	•			
<u> </u>		•			
•	•	•	•		
•	•	•	•		
	-		-		
•	•		•		
<u>-</u>	<u>•</u>	<u> </u>	-		
:		•	•		
•	•		•		
200, 250	400, 500	800	-		
100	100	100	-		
-	•		-		
•			-		
UL 489/CSA C22.2 No. 5/ IEC 60947-2					
Top and bottom	Top and bottom	Top and bottom	Top and bottom		
Without connection technology	Without connection technology	Nut keeper kit	Nut keeper kit		

Trip units

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

Trip units	Thermal-magnetic	Electronic	Electronic with display	Electronic with display and metering function
	TM240 1,/A 1,/A 1,/A 1,/A 1,201_19035	ETU350 LSI	ETU550M LSI A ESC D COM D ALT D ALZ D OK D COM	ETU860M LSIG ACT OX
	TM 2-series	ETU 3-series	ETU 5-series	ETU 8-series
Protective function				
Line protection	TM210, TM230, TM240	ETU320, ETU330, ETU350	ETU550, ETU556, ETU560	ETU820, ETU830, ETU850, ETU856, ETU860
Starter protection	TM120M	ETU310M	-	-
Integrated functions				
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
Metering function	-	-	-	Metering function integrated
Optional expansions				
24 V module			24 V module for continuous	24 V module for continuous power
			power supply (also without primary current through the molded case circuit breaker)	supply (also without primary current through the molded case circuit breaker)
External function box		EFB300 external function box	EFB300 external function box for	EFB300 external function box for
		for connection to the ETU	connection to the ETU	connection to the ETU
Maintenance mode box	-			
		MMB300 maintenance mode box for connection to the ETU	MMB300 maintenance mode box for connection to the ETU	MMB300 maintenance mode box for connection to the ETU
Communication module				
	-	-	COM060 communication module	COM060 communication module
Breaker data server				
	-	-	COM800/COM100 breaker data server with interface to • PROFIBUS • PROFINET • Modbus RTU • Ethernet (Modbus TCP)	COM800/COM100 breaker data server with interface to • PROFIBUS • PROFINET • Modbus RTU • Ethernet (Modbus TCP)
External display				######################################
	-	-	DSP800 external display for installing in the cubicle door	DSP800 external display for installing in the cubicle door
Test device				Ů
	-	TD300/TD400/TD500 test device	TD300/TD400/TD500 test device	TD300/TD400/TD500 test device

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

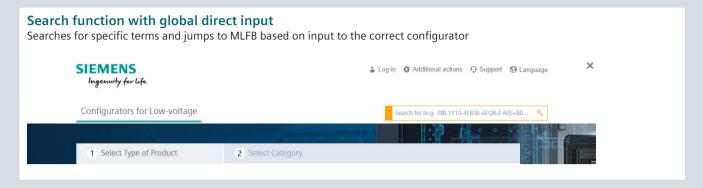
	ETU310M	ETU320	ETU330	ETU350	ETU550	ETU556	ETU560	ETU820	ETU830	ETU850	ETU856	ETU860
	1	LI	LIG	LSI	LSI	LSI	LSIG	LI	LIG	LSI	LSI	LSIG
						(G alarm)					(G alarm)	
Protection												
Motor circuit protector		-	-	-	-	-	-	-	-	-		-
Line protection	-				•							
Version available with												
3-pole 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	I²t	I²t	I²t	I²t	I ² t	I ² t	I ² t	I²t	I²t	I ² t	I ² t
I _r	-											
$t_{\rm ld}$ at $6 \times I_{\rm r}$	-											
Thermal image												
Thermal image can be switched on/off	-	-	-	-	•	•	•	-	-	•	•	•
I _{sd}	-	-	-					-	-			
$t_{\rm sd}$ at 8 × $I_{\rm r}$	-	-	-					-	-		•	
Characteristic in S range: <i>I</i> ² <i>t</i> _{sd}	-	-	-					-	-		•	
Characteristic in S range: selectable l^2t_{sd}/t_{sd}	-	-	-	-	•	•	•	-	-	•	•	•
$I_{\rm i}$												
I _N 1)	-										•	
I_{g}	-	-		-	-	-		-		-	-	
$t_{\rm g}$ at 2 × $I_{\rm g}$	-	-		-	-	-		-		-	-	
Characteristic in G range: <i>I</i> ² <i>t</i> _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

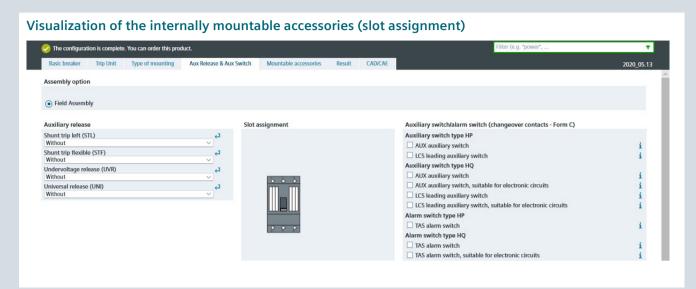


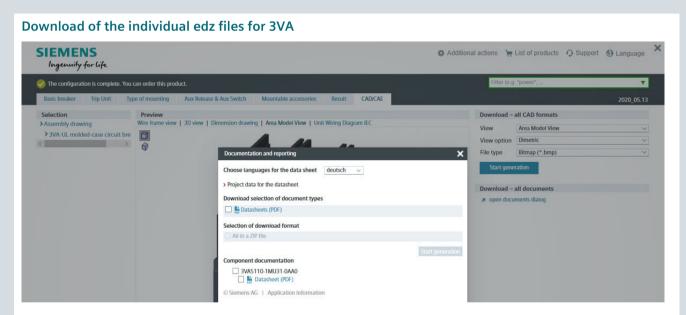
Product list stores multiple configurations and can transfer them collectively to the shopping cart List of products Projectdata Actions No. Article Quantity Unit price: Occuments on request all documents for position Further details

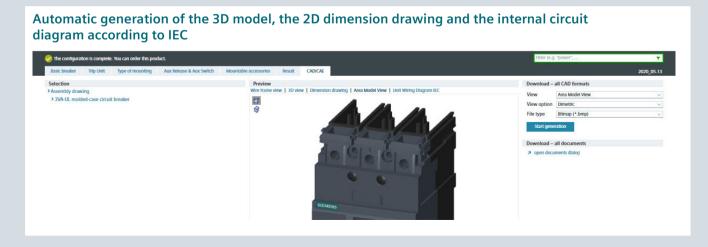




www.siemens.com/lowvoltage/3va-ul-configurator







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

Switching devices





3VA5 for standard applications

3VA6 for applications with more stringent requirements

Trip unit







Electronic trip unit (ETU) with display, and

Trip unit accessories









Thermal-magnetic trip unit (TMTU)

Electronic trip unit

optionally with metering function

24 V module Communication module

Breaker data server

Test device External display

Type of mounting



Fixed-mounted



Withdrawable unit,

ದದದ

complete kit





Plug-in unit, complete kit

Supplementary accessories







circuit connector

feedthrough signaling switch

Cylinder lock adapter

Crank

Main conductor connections



connectors





Bus connectors

broadened





Circular conductor Box terminal

Connection accessories



Insulation accessories

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 interlocks







Sliding bar interlock

Interlocking with rod

Handle interlock with Bowden cable

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

Structure of the article numbers

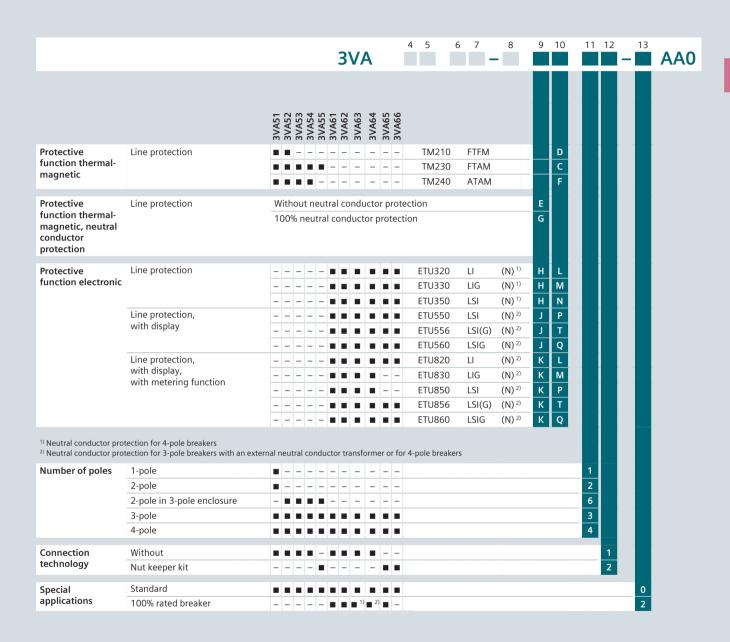
Basic configuration for line protection

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

Size												
Trip units					21/4		4 5	6	7	8	9 10	
Size 125 A 150 A 250 A 400 A 600 A 800 A 1000 A					3VA							 AAU
Size 125 A 150 A 250 A 400 A 600 A 800 A 1000 A	Trip units	Thermal-magnetic					5					
Size 125 A		Electronic					6					
Size 125 A				- 0 0 + 1	0	+ 10 10						
Size 125 A				3VA57 3VA53 3VA53	3VA55 3VA67 3VA67 3VA67	3VA65 3VA65 3VA66				П		
250 A	Size	125 A										
250 A		150 A			_ 🔳	- -	1					
400 A		250 A				- - -	2					
Max. rated current Line protection 15 A		400 A				- - -	3					
Max. rated current Ine protection 15 A 20 A 25 A 30 A 35 A 40 A 45 A 40 A 45 A 50 A 60 A 80 A 70 A 100 A 1		600 A				ı - -	4					
Max. rated current Line protection 15		800 A		1	■ - - -	- 🔳 –	5					
100 A		1000 A		- - - -	- - - -	=	6					
100 A	Max. rated current	Line protection	15 A		_ _ - -	- - -		9	5			
25 A								2	0			
30 A								2	5			
35 A				-				3	0			
45 A			35 A					3	5			
50 A • • • • • • • • • • • • • • • • 6 0 60 A • • • • • • • • • • • • • • • • • 6 0 70 A • • • • • • • • • • • • • • • • • 7 0 80 A • • • • • • • • • • • • • • • • 9 0 100 A • • • • • • • • • • • • • • • • 1 1 110 A • • • • • • • • • • • • • • • • • 1 1 110 A • • • • • • • • • • • • • • • • • • •			40 A			- - -		4	0			
60 A			45 A		- - - -	- - -			5			
70 A			50 A					5	0			
70 A			60 A					6	0			
80 A			70 A					7				
90 A			80 A			- - -		8	0			
110 A			90 A		_ _ _ -			9	0			
125 A			100 A			- - -		1				
150 A					- - - -				1			
175 A						- - -			2			
200 A									5			
225 A												
250 A									0			
300 A					- - - -			2	2			
350 A								2	5			
400 A					- - - -			3	0			
500 A								3	0			
500 A								4	5			
700 A								5	0			
700 A								6				
800 A					<u> </u>			7				
900 A				i	.			8				
								9				
Short-circuit 25 kA					_ _ - -			1				
breaking capacity I _{cu} = I _{cs} at 480 V 50/60 Hz 100 kA 150 kA 100 kA	Short-circuit	25 kA			_ _ _ _	- - -				4		
I _{cu} = I _{cs} at 480 V 50/60 Hz 65 kA 6 6 7 7 150 kA 7 8 8 200 kA 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9										5		
50/60 Hz	$I_{cu} = I_{cs}$ at 480 V									6		
150 kA	50/60 Hz									7		
200 kA						I – –				8		
······		200 kA				I				0		

■ Available

- Not available/not present



Only possible for 250 A Only possible for 400 A

Structure of the article numbers

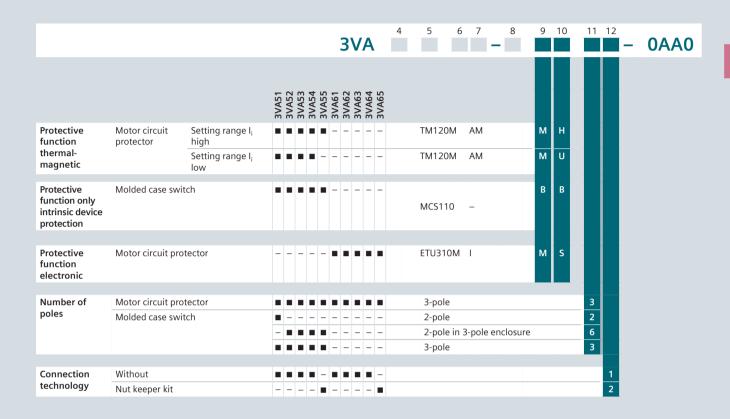
Basic configuration for motor circuit protectors and molded case switches

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

							:	3V	/ Δ			4 5	5	6	7	ı –	8	9	10	11	1 12	_	0AA0
	T:											.											
Trip units	Thermal-magnetic Electronic										_	5 6											
	Electronic											0	-		H								
			3VA51	3VA52	3VA53	3VA54	37/461	3VA62	3VA63	3VA64	3VA65		ı										
Size	125 A			-		- -	- -	- -	-	-	-	•											
	150 A		-	-		- -	-		-	-	-	·	1										
	250 A		-			- -	- -	- 🔳	-	-	-		1 2 3 4										
	400 A		-	_	-	- -	- -	- -		-	-	3	3										
	600 A		-	_	- 1	-	- -	- -	-		-	4	4										
	800 A		-	-	- -	-	-	- -	-	-			5		L								
Max. rated current	Motor circuit protector	1 A	П	-	_ -	- -	- -	- -	-	-	-			8	1								
I _n		2 A		-		- -	- -	- -	-	-	-			8 0 0	2								
		3 A		-		- -	- -	- -	-	-	-				3								
		5 A		-		- -	- -	- -	-	-	-			0	1 2 3 5 7								
		7 A		-		- -	- -	- -	-	-	-			0	7								
		10 A		-		- -	- -	- -	-	-	-			9	1								
		15 A				- -	- -	- -	-	-	-			9	5								
		25 A		_			-	<u> </u>	-	-	-			2	5								
		30 A		-	-	- -	-	-	-	-	-			3	0								
		40 A		-		- -	-	-	-	-	-			4	0								
		50 A		-		- -	-	-	-	-	_			9 9 2 3 4 5 7 8 9	0								
		70 A		_			-	-	-		-			7	0								
		80 A		-	- -	- -	-	-	-	-				8	0								
		90 A		-	- -	- -	-	-	-		-			9	0								
		100 A		_		- -	-	-	-	-					0								
		110 A		_			-		-	-				1	2	-							
		125 A	-	_	-		-		-	_	_			1	5								
		150 A 200 A	-	Н	-		-		-	_													
		250 A		Н					_	_	_			2	5 0								
		400 A									_			4	1								
		500 A			- 1		-		-	Ħ	_			5	0								
		600 A	-		- 1		-		_					6	ō								
		800 A	-	_	_ [-		_	_				2 2 4 5 6 8	0								
	Molded case switch	100 A		П		_ _			-	-	_			1	0								
		150 A	-			- -	- -	- -	-	-	-			1									
		250 A	-	П	-	- -	- -	- -	-	-	-				5 5 0								
		400 A	-	-	- 1	-	- -	- -	-	-	-			2 4 6 7 8	0								
		600 A	-		- 1		-	- -	-	-	-			6									
		700 A	-	-		-	-	-[-	-	-	-			7	0								
		800 A	-	-		-	-	- -	-	-	-			8	0								
Short-circuit	Without, with SCCR rating	65 kA								_							0						
breaking capacity	as a combined device	100 kA		_													0 1						
$I_{cu} = I_{cs}$ at 480 V 50/60 Hz		65 kA	-	-	-			-		-							1						

■ Available

- Not available/not present



Internal accessories

Auxiliary and alarm switches (changeover contacts)

							3VA61
						3VA51	3VA62
						3VA52	3VA63
						3VA53	3VA64
						3VA54	3VA65
						3VA55	3VA66
Auxiliar	y switches	AUX					
		contacts of the auxilia			molded case circuit breaker se circuit breaker close in		
	Туре	Width	I _e	U _e AC/DC	Version		
	HQ	7 mm (1 slot)	6 A	240 V/250 V	Standard	3VA997	78-0AA12
			0.3 A	24 V/24 V	Electronic-compatible	3VA997	78-0AA13
	HP	14 mm (2 slots)	10 A	600 V/250 V	Standard	3VA997	78-0AA11
Leading	changeov	er switches LCS					
	 Sigr 	d for load shedding, f hal the opening of the ircuit breaker trips			time of 20 ms in advance		
100	Type	Width	I _e	U _e AC/DC	Version		
	HQ	7 mm (1 slot)	6 A	240 V/250 V	Standard	3VA997	78-0AA22
			0.3 A	24 V/24 V	Electronic-compatible	3VA997	78-0AA23
	HP	14 mm (2 slots)	10 A	600 V/250 V	Standard	3VA997	78-0AA21
Trip alaı	m switche	s TAS					
	• Are	nal every circuit break actuated whenever t ition			ker switches to the TRIP		
<u> </u>	Туре	Width	I _e	U _e AC/DC	Version		
	HQ	7 mm (1 slot)	6 A	240 V/250 V	Standard	3VA997	78-0AB12
			0.3 A	24 V/24 V	Electronic-compatible	3VA997	78-0AB13
0	НР	14 mm (2 slots)	10 A	600 V/250 V	Standard	3VA997	78-0AB11
Electrica	al alarm sw	vitches EAS					
		actuated as soon as ten in the event that the			lded case circuit breaker TU		
A	Type	Width	I _o	U _a AC/DC	Version		
	HQ	7 mm (1 slot)	6 A	240 V/250 V	Standard	-	3VA9978-0AB22
4			0.3 A	24 V/24 V	Electronic-compatible	-	3VA9978-0AB23

Auxiliary releases

			ı	DVAE4		
				3VA51	2)/461	
				3VA52 3VA53	3VA61 3VA62	
				3VA54	3VA62 3VA63	3VA65
				3VA55	3VA63 3VA64	3VA65
Shunt trips left S	TI			3 VA 3 3	3VA04	3VA00
Situate trips fere 3		mote-controlled tripping o	f the molded case circuit breaker			
		ularly low power consump				
ACTIVITY.	Version	U _e 50/60 Hz AC	U _e DC			
1400	Standard	-	12 V		3VA9978-0BL10	
MILMENS		24 V	24 30 V		3VA9978-0BL30	
		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 flexib	le STF					
	Used for reFlexible ins		f the molded case circuit breaker			
	Version	U _e 50/60 Hz AC	U _e DC			
8.8.04		24 V	-	-	3VA9978-0BA20	-
MEMENS		48 60 V	-	-	3VA9978-0BA21	-
The second second		110 127 V	-	-	3VA9978-0BA22	-
		208 277 V	_	-	3VA9978-0BA23	-
		380 500 V	-	-	3VA9978-0BA24	-
		600 V	_	-	3VA9978-0BA25	-
Universal release						
	Combination	on of shunt trip and under	voltage release			
5555	Version	U _e 50/60 Hz AC	U _e DC			
dada		-	12 V		3VA9978-0BD11	
		-	24 V		3VA9978-0BD12	
		-	48 V		3VA9978-0BD13	
Undervoltage rel	eases UVR					
	Trip the mo operationa		in the event that the rated ircuit drops below a minimum			
(Contraction)	Version	U _e 50/60 Hz AC	U _e DC			
1333		-	12 V		3VA9978-0BB10	
NAME OF TAXABLE PARTY.		-	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 undervolta	ge releases				
The same	Version	U _e 50/60 Hz AC	U _e DC			
2000		230 V	230 V		3VA9978-0BF22	
••••		-	24 V		3VA9978-0BF23	

Manual operators

							3VA53	
						3VA52	3VA54	3VA55
					DVAEA	3VA61	3VA63	3VA65
Front mounted	rotary operators				3VA51	3VA62	3VA64	3VA66
	HandleDegree of protectFor 3-pole and 4							
	Version	Door open function	Illumination kit	Door interlock				
at .	Standard (gray)	Without	Without	Without	3VA9137-0EK11	3VA9277-0EK11	3VA9447-0EK11	3VA9677-0EK11
				With	3VA9137-0EK21	3VA9277-0EK21	3VA9447-0EK21	3VA9677-0EK21
			With	Without	3VA9137-0EK13	3VA9277-0EK13	3VA9447-0EK13	-
				With	3VA9137-0EK23	3VA9277-0EK23	3VA9447-0EK23	-
		With	Without	With	3VA9137-0EK31	3VA9277-0EK31	3VA9447-0EK31	3VA9677-0EK31
<u></u>			With	With	3VA9137-0EK33	3VA9277-0EK33	3VA9447-0EK33	-
	EMERGENCY-OFF (red/yellow)	Without	Without	Without	3VA9137-0EK15	3VA9277-0EK15	3VA9447-0EK15	3VA9677-0EK15
	(rear jenevy)			With	3VA9137-0EK25	3VA9277-0EK25	3VA9447-0EK25	3VA9677-0EK25
			With	Without	3VA9137-0EK17	3VA9277-0EK17	3VA9447-0EK17	-
				With	3VA9137-0EK27	3VA9277-0EK27	3VA9447-0EK27	-
		With	Without	With	3VA9137-0EK35	3VA9277-0EK35	3VA9447-0EK35	3VA9677-0EK35
			With	With	3VA9137-0EK37	3VA9277-0EK37	3VA9447-0EK37	-
Door mounted r		(4000 4)						
	With mounting t	-pole breakers						
	Version	Door open function	Illumination kit	Door interlock				
-	Standard (gray)	Without	Without	With	3VA9137-0FK21	3VA9277-0FK21	3VA9447-0FK21	3VA9677-0FK21
9			With	With	3VA9137-0FK23	3VA9277-0FK23	3VA9447-0FK23	3VA9677-0FK23
		With	Without	With	3VA9137-0FK31	3VA9277-0FK31	3VA9447-0FK31	3VA9677-0FK31
			With	With	3VA9137-0FK33	3VA9277-0FK33	3VA9447-0FK33	3VA9677-0FK33
4.	EMERGENCY-OFF	Without	Without	With	3VA9137-0FK25	3VA9277-0FK25	3VA9447-0FK25	3VA9677-0FK25
5	(red/yellow)		With	With	3VA9137-0FK27	3VA9277-0FK27	3VA9447-0FK27	3VA9677-0FK27
		With	Without	With	3VA9137-0FK35	3VA9277-0FK35	3VA9447-0FK35	3VA9677-0FK35
			With	With	3VA9137-0FK37	3VA9277-0FK37	3VA9447-0FK37	3VA9677-0FK37

							3VA53	l
						3VA52	3VA54	3VA55
						3VA61	3VA63	3VA65
					3VA51	3VA62	3VA64	3VA66
Door mounted r	otary operators with	out handle						
	Degree of protectFor 3-pole and 4-							
-there	Version	Door open function	Illumina- tion kit	Door interlock				
	With shaft stub	Without	-	Without	3VA9137-0GK00	3VA9277-0GK00	3VA9447-0GK00	3VA9677-0GK00
Side wall moun	(gray) ted rotary operators	without mounti	ing plates					
4	 Rotary operator v Handle with masl Degree of protect For 3-pole and 4- 	vith shaft 300 m king plate 75 × 7 tion IP65	m					
	Version	pole breakers	Illuminatio	n kit				
	Standard (gray)		Without		3VA9137-0PK11	3VA9277-0PK11	-	-
	.5 ,7		With		3VA9137-0PK13	3VA9277-0PK13	-	-
	EMERGENCY-OFF (re	ed/yellow)	Without		3VA9137-0PK15	3VA9277-0PK15	-	-
			With		3VA9137-0PK17	3VA9277-0PK17	-	-
Side wall mount	 Rotary operator v mounting directly Handle with masl Degree of protect For 3-pole and 4- 	vith short shaft a y on the side wal king plate 75 × 7 tion IP65	and mounting	plate for				
	Version		Illuminatio	n kit				
	Standard (gray)		Without With			3VA9277-0PK51 3VA9277-0PK53	-	-
	EMERGENCY-OFF (re	ad/vellow)	Without			3VA9277-0PK55	_	
	LINENGENCT OF THE	cury chow)	With			3VA9277-0PK57	_	_
Door interlock f	or side wall mounted	l rotary operato	rs					
					3VA9177-0VF40	3VA9277-0VF40	-	-
Extended DIN ra	ails for N/PE terminals	S						
	Version		Rated curre	ent I _n				
	For mounting plate		≤250 A			3VA9987-0GL30		-
Supplementary	handles for door mo	unted rotary op	erators (NFP	A79)				
	Mandatory accordFor operation whVersion	ding to NFPA79						
	Standard (gray)						3VA9477-0GC11	
Handles	EMERGENCY-OFF (re	ed/yellow)			3VA9137-0GC05	3VA9477-0GC05	3VA9477-0GC15	3VA9677-0GC05
Handles	With masking pla	te						
	Version	Door open function	Tolerance	compensation				
100	Standard (gray)	Without	Without			1-0AB11	8UD1731-0AB11	
		10/14/-	With			1-0AB21	8UD1731-0AB21	
		With	Without With			1-0AC11 1-0AC21	8UD1731-0AC11	8UD1741-0AC11 8UD1741-0AC21
	EMERGENCY-OFF	Without	Without			1-0AB15		8UD1741-0AC21
	(red/yellow)	minout	With			1-0AB15 1-0AB25		8UD1741-0AB25
		With	Without			1-0AC15		8UD1741-0AC15
			With			1-0AC25		8UD1741-0AC25

Manual operators

					3VA53	ı
				3VA52	3VA54	3VA55
				3VA61	3VA63	3VA65
			3VA51	3VA62	3VA64	3VA66
Handle lever e	extensions					
	 Note: The handle leve scope of supply of the 	r extension is already included in the				
	scope of supply of the	bleakers.				
			-	_	3VA9487-0SC10	3VA9987-0SC10
Shafts						
Shares	Туре	Length				
	8 × 8 mm	300 mm		8UD1900-2WA00		_
		600 mm		8UD1900-2WB00		_
	12 × 12 mm	325 mm		_		8UD1900-4WA00
		600 mm		_		8UD1900-4WB00
Adapters for s	hafts					
	Туре	Use				
	8 × 8 mm	With door mounted rotary		8UD1900-2DA00		-
		operator and side wall				
		mounted rotary operator				
	12 × 12 mm	With door mounted rotary operator and side wall		-		8UD1900-4DA00
		mounted rotary operator				
Door coupling	S					
A F	Туре					
	8 × 8 mm			8UD1900-2HA00		-
	12 × 12 mm			-		8UD1900-4HA00
Mounting tole	erance compensations					
- 4	Туре					
	8 × 8 mm			8UD1900-2GA00		-
	12 × 12 mm			-		8UD1900-4GA00
Fixing bracket	ts for shafts					
14						
1			3VA9137-0GA80	3VA947	7-0GA80	3VA9677-0GA80
Variable danti	h adamtana					
Variable depth						
	Type 8 × 8 mm			3VA9487-0GB10		
	0 × 0			3VA9407-00B10		_
Interlocking m	1odule UL 508A					
1	 Used when the handle the door is open. 	e is to remain on the circuit breaker when				
				8UC9400		_
1/1/2/						

			ı	3VA51	3VA61	
				3VA52	3VA62	3VA55
				3VA52 3VA53	3VA63	3VA55
				3VA53	3VA64	3VA65
Labeling plates for	manual operators			3VA34	3VA04	3 V A 0 0
Edbelling plates for						
				3VA908	7-0SX10	-
Illumination kits fo	r manual operators					
	 24 V DC voltage 					
•	Version	Rated current I _r	1			
	Front mounted rotary	125 250 A		8UD1900-0KA10	-	-
\mathcal{A}	operator	150 600 A		-	8UD1900-0KA20	-
	Door mounted rotary operator	125 600 A		8UD190	0-0KA20	-
	and side wall mounted rotary operator	600 1000 A		-	-	8UD1900-0KA30
Cylinder locks (type	e Kaba), standard masking plates					
100 mm	Use	Door open function	Key			
P. C.	For door mounted rotary	Without	1	8UD190	D-OMBO1	
- (1)	operator and side wall	without				
	mounted rotary operator		2	8UD190		-
	(in the masking plate),		3	8UD190		-
	only for locking, not for		4	8UD190	0-0QB01	
	interlocking	With	1	8UD1900	D-0MC01	-
			2	8UD190	0-0NC01	-
			3	8UD190	0-0PC01	-
			4	8UD190	0-0QC01	-
Cylinder locks (type	Kaba), EMERGENCY-OFF masking					
	Use	Door open function	Key			
	For door mounted rotary	Without	1	8UD190	D-0MB05	-
	operator and side wall		2	8UD190	0-0NB05	-
	mounted rotary operator (in the masking plate),		3	8UD190	0-0PB05	-
	only for locking, not for		4	8UD190	0-0QB05	-
	interlocking	With	1	8UD1900	D-0MC05	-
	3		2	8UD190	0-0NC05	-
			3	8UD190	0-0PC05	-
			4	8UD190	0-0QC05	-
Cylinder locks (type	RONIS)					
	 Includes a lock with 2 keys For locking or interlocking For installation on the circuit For mounting in the adapter Note: The cylinder lock adapneeded for locking or interlo operators 	kit for the access ter for rotary ope	ories compartment rators is also			
	Key					
	1				3VA9980-0VL10	
	3				3VA9980-0VL30	
	4				3VA9980-0VL40	
Cylinder lock adapt	ers for rotary operators					
	 To mount the cylinder lock in (also possible with door mounted rotary operator), or masking plate 	inted rotary opera	ator and side wall			
				3VA998	0-0LF20	3VA9670-0LF20

Manual operators

Auxillary switch modules for rotary operators Version 2 Reading to "ON" 3 3 3 3 3 4 3 3 3 4 3 3								3VA53	1
Auxiliary switch modules for rotary operators Version 2							3VA52		3VA55
Auxiliary switch modules for rotary operators									3VA65
Auxiliary witch modules for rotary operators						3VA51			
Version 2x leading to "ON" 3VA9137-OCK10 3VA9477-OCK10 3VA9477-OCK10 3VA9477-OCK10 3VA9477-OCK20 -	Auxiliary switc	h modules for rotary ope	rators						511155
2 x leading to "OFF" and " -									
Nounting adapters for side will mounted rotary operators	6	2× leading to "ON"				3VA9137-0GX10	3VA9477-0GX10	3VA9477-0GX10	-
Note	20.7.9	2× leading to "ON" and				-	3VA9477-0GX20	3VA9477-0GX20	-
Necessary accessories for 3VA side wall mounted rotary operators, 3VA9137-0GX01 3VA9477-0GX01 3VA9477-0GX01 -									
Necessary accessories for 3VA side wall mounted rotary operators, 3VA9137-0GX01 3VA9477-0GX01 -	Mounting adap		ed rotary operators	;					
F3VA9GGX.0 auxiliary switch modules are used	0								
Complete set, comprising: — Switching mechanism — Handle, plastic	(C)	· · · · · · · · · · · · · · · · · · ·			ary operators,	3VA9137-0GX01	3VA9477-0GX01	3VA9477-0GX01	-
- Switching mechanism - Handle, plastic - Enclosure types 1, 3, 3R, 4, 12, 12K, black = OFF, red = ON - Bowden cable, length 36 inch (0.9 m) - Operating units with Bowden cable (MaxFlex operator), steel - Complete set, comprising - Switching mechanism - Handle, steel, epoxy-coated - Enclosure types 1, 3, 3K, 4, 12, 12K, black = OFF, red = ON - Bowden cable, length 36 inch (0.9 m) - Switching mechanisms for operating unit with Bowden cable - Handles for operating unit with Bowden cable - Handles for operating unit with Bowden cable - Flastic 1, 3, 3R, 4, 12, Black Red 3VA9977-0CB10 3VA9477-0CB10 3VA9477-0C	Operating unit	s with Bowden cable (Ma	xFlex operator), pl	astic					
- Handle, plastic		Complete set, compr	ising:						
- Enclosure types 1, 3, 3R, 4, 12, 12K, black = OFF, red = ON - Bowden cable, length 36 inch (0.9 m) 3VA9137-0CK12 3VA9277-0CK12 3VA9477-0CK12 − Operating units with Bowden cable (MaxFlex operator), steel - Complete set, comprising: - Switching mechanism - Handle, steel, epoxy-coated - Enclosure types 1, 3, 3R, 4, 12, 12K, black = OFF, red = ON - Bowden cable, length 36 inch (0.9 m) Switching mechanisms for operating unit with Bowden cable Switching mechanisms for operating unit with Bowden cable			nism						
Bowden cable, length 36 inch (0.9 m) 3VA9137-OCK12 3VA9277-OCK12 3VA9477-OCK12 — Operating units with Bowden cable (MaxFlex operator), steel Complete set, comprising: - Switching mechanism: - Handle, steel, epoxy-coated - Enclosure types 1, 3, 3R, 4, 12, 12k, black = OFF, red = ON - Bowden cable, length 36 inch (0.9 m) Switching mechanisms for operating unit with Bowden cable Handle Enclosure Types Plastic 1, 3, 3R, 4, 12, Black Red 3VA9977-OCK72 Steel, epoxy-coated 1, 3, 3R, 4, 12, Black Red 3VA9977-OCH72 Steel, epoxy-coated 1, 3, 3R, 4, 12, Black Red 3VA9977-OCH72 Stainless steel, 1, 2, 3, 3R, 4, 18 Black Red 3VA9977-OCH72 Stainless steel, 1, 2, 3, 3R, 4, Black Red 3VA9977-OCH72 Stainless steel, 1, 2, 3, 3R, 4, Black Red 3VA9977-OCH72 Stainless steel, 1, 2, 3, 3R, 4, Black Red 3VA9977-OCH72 Stainless steel, 1, 2, 3, 3R, 4, Black Red 3VA9977-OCH74 Stainless steel, 1, 2, 3, 3R, 4, Black Red 3VA9977-OCH74 Stainless steel, 1, 2, 3, 3R, 4, Black Red 3VA9977-OCH74 Stainless steel, 1, 2, 3, 3R, 4, Black Red 3VA9977-OCH74 Stainless steel, 1, 2, 3, 3R, 4, Black Red 3VA9977-OCH74 Stainless steel, 1, 2, 3, 3R, 4, Black Red 3VA9977-OCH74 Stainless steel, 1, 2, 3, 3R, 4, Black Red 3VA9977-OCH782 Sava978-OCC10 3VA9878-OCC10 3VA9878-OCC30 3VA9878-OCC30 3VA9978-OCC30 3VA9978-OCC30 3VA9978-OCC30 3VA9978-OCC30 3VA9978-OCC30 3VA9978-OCC30 3VA9978-OCC50 3VA9978-OCC60 3VA9978-OCC50 3VA9978-OCC5			3 3R 4 12 12K h	olack – OF	F red - ON				
Complete set, comprising:					1,100 - 014				
Complete set, comprising:			, ,						
- Complete set, comprising: - Switching mechanism - Handle, steel, epoxy-coated - Enclosure types 1, 3, 3R, 4, 12, 12K, black = OFF, red = ON - Bowden cable, length 36 inch (0.9 m) Switching mechanisms for operating unit with Bowden cable Handle for operating unit with Bowden cable Handle Enclosure types - 1, 3, 3R, 4, 12, Black Red - 12K - 12						3VA9137-0CK12	3VA9277-0CK12	3VA9477-0CK12	-
- Switching mechanism - Handle, steel, epoxy-coated - Enclosure types 1, 3, 3R, 4, 12, 12K, black = OFF, red = ON - Bowden cable, length 36 inch (0.9 m) - Bowden cable, length 36 inch (0.9 m) - Bowden cable, length 36 inch (0.9 m) - Switching mechanisms for operating unit with Bowden cable - Washing mechanisms for operating unit with Bowden cable - Washing mechanisms for operating unit with Bowden cable - Handle	Operating unit	s with Bowden cable (Ma	xFlex operator), st	eel					
- Handle, steel, epoxy-coated - Enclosure types 1, 3, 3R, 4, 12, 12K, black = OFF, red = ON - Bowden cable, length 36 inch (0.9 m) - Bowden cable, length 36 inch (0.9 m) Switching mechanisms for operating unit with Bowden cable	i								
- Enclosure types 1, 3, 3R, 4, 12, 12K, black = OFF, red = ON - Bowden cable, length 36 inch (0.9 m)	1 4								
### Switching mechanisms for operating unit with Bowden cable #### Bowden cable, length 36 inch (0.9 m) #### Bowden cable, length 36 inch (0.9 m) ###################################	19 M			olack – OE	E red = ON				
Switching mechanisms for operating unit with Bowden cable					i, ieu – Oiv				
Switching mechanisms for operating unit with Bowden cable			.9						
Handles for operating unit with Bowden cable Handle Enclosure types Plastic 1, 3, 3R, 4, 12, 12k Black Bl						3VA9137-0CK72	3VA9277-0CK72	3VA9447-0CK72	3VA9677-0CK72
Handles for operating unit with Bowden cable Handle Enclosure types Plastic 1, 3, 3R, 4, 12, 12k Black Bl	()								
Handles for operating unit with Bowden cable Handle Enclosure types Plastic 1, 3, 3R, 4, 12, 12k Black Bl									
Handles for operating unit with Bowden cable Handle Enclosure types Plastic 1, 3, 3R, 4, 12, 12k Black Bl	Switching moc	hanisms for anarating ur	it with Powdon cal	blo					
Handles for operating unit with Bowden cable Handle Enclosure types	Switching mec	namisms for operating ar	iit with bowden ca	DIE		3VA9137-0CR10	3VA9277-0CR10	3VA9477-0CR10	3VA9677-0CR10
Handle types Plastic 1, 3, 3R, 4, 12, 12K Black Red 3VA9977-0CH12 - 12K Black Red 3VA9977-0CH72 3VA9877-0CH72 Steel, epoxy-coated 1, 3, 3R, 4, 12, 12K Black Black Black 3VA9977-0CH74 3VA9877-0CH74 Stainless steel, 1, 2, 3, 3R, 4, Black Red 3VA9977-0CH74 3VA9877-0CH74 Stainless for operating unit with Bowden cable Length 36 inch (0.9 m) 3VA9278-0CC10 3VA9578-0CC10 - 48 inch (1.2 m) 3VA9278-0CC30 3VA9578-0CC30 3VA9877-0CC30 72 inch (1.8 m) 3VA9278-0CC40 3VA9578-0CC30 3VA9877-0CC40 84 inch (2.1 m) 3VA9278-0CC50 3VA9578-0CC50 - 96 inch (2.4 m) 3VA9278-0CC50 3VA9578-0CC50 3VA9877-0CC60 120 inch (3.0 m) 3VA9278-0CC70 3VA9578-0CC30 3VA9877-0CC60	pc° En					347137 00010	347/3277 00010	34713177 00010	347,5077 00010
Handle types Plastic 1, 3, 3R, 4, 12, 12K Black Red 3VA9977-0CH12 - 12K Black Red 3VA9977-0CH72 3VA9877-0CH72 Steel, epoxy-coated 1, 3, 3R, 4, 12, 12K Black Black Black 3VA9977-0CH74 3VA9877-0CH74 Stainless steel, 1, 2, 3, 3R, 4, Black Red 3VA9977-0CH74 3VA9877-0CH74 Stainless for operating unit with Bowden cable Length 36 inch (0.9 m) 3VA9278-0CC10 3VA9578-0CC10 - 48 inch (1.2 m) 3VA9278-0CC30 3VA9578-0CC30 3VA9877-0CC30 72 inch (1.8 m) 3VA9278-0CC40 3VA9578-0CC30 3VA9877-0CC40 84 inch (2.1 m) 3VA9278-0CC50 3VA9578-0CC50 - 96 inch (2.4 m) 3VA9278-0CC50 3VA9578-0CC50 3VA9877-0CC60 120 inch (3.0 m) 3VA9278-0CC70 3VA9578-0CC30 3VA9877-0CC60	أيدأ								
Handle types Plastic 1, 3, 3R, 4, 12, 12K Black Red 3VA9977-0CH12 - 12K Black Red 3VA9977-0CH72 3VA9877-0CH72 Steel, epoxy-coated 1, 3, 3R, 4, 12, 12K Black Black Black 3VA9977-0CH74 3VA9877-0CH74 Stainless steel, 1, 2, 3, 3R, 4, Black Red 3VA9977-0CH74 3VA9877-0CH74 Stainless for operating unit with Bowden cable Length 36 inch (0.9 m) 3VA9278-0CC10 3VA9578-0CC10 - 48 inch (1.2 m) 3VA9278-0CC30 3VA9578-0CC30 3VA9877-0CC30 72 inch (1.8 m) 3VA9278-0CC40 3VA9578-0CC30 3VA9877-0CC40 84 inch (2.1 m) 3VA9278-0CC50 3VA9578-0CC50 - 96 inch (2.4 m) 3VA9278-0CC50 3VA9578-0CC50 3VA9877-0CC60 120 inch (3.0 m) 3VA9278-0CC70 3VA9578-0CC30 3VA9877-0CC60									
Handle types Plastic 1, 3, 3R, 4, 12, 12K Black Red 3VA9977-0CH12 - 12K Black Red 3VA9977-0CH72 3VA9877-0CH72 Steel, epoxy-coated 1, 3, 3R, 4, 12, 12K Black Black Black 3VA9977-0CH74 3VA9877-0CH74 Stainless steel, 1, 2, 3, 3R, 4, Black Red 3VA9977-0CH82 3VA9877-0CH82 chrome-plated 4X, 12, 12K, 13 Black Black 3VA9977-0CH82 3VA9877-0CH82 Bowden cables for operating unit with Bowden cable Length 36 inch (0.9 m) 3VA9278-0CC10 3VA9578-0CC10 - 48 inch (1.2 m) 3VA9278-0CC30 3VA9578-0CC30 3VA9877-0CC30 72 inch (1.8 m) 3VA9278-0CC40 3VA9578-0CC30 3VA9578-0CC30 3VA9877-0CC40 84 inch (2.1 m) 3VA9278-0CC50 3VA9578-0CC50 - 96 inch (2.4 m) 3VA9278-0CC50 3VA9578-0CC50 3VA9877-0CC60 120 inch (3.0 m) 3VA9278-0CC70 3VA9578-0CC30 3VA9877-0CC60	Handles for op	erating unit with Bowder	ı cable						
Plastic 1, 3, 3R, 4, 12, 12K Steel, epoxy-coated 1, 3, 3R, 4, 12, 12K Stainless steel, 1, 2, 3, 3R, 4, 18lack Red 3VA9977-0CH72 3VA9877-0CH74 Stainless steel, 1, 2, 3, 3R, 4, 18lack Red 3VA9977-0CH74 3VA9877-0CH82 chrome-plated 4X, 12, 12K, 13 Black Black 3VA9977-0CH82 3VA9877-0CH82 chrome-plated 4X, 12, 12K, 13 Black Black 3VA9977-0CH84 — Bowden cables for operating unit with Bowden cable Length 36 inch (0.9 m) 3VA9278-0CC10 3VA9578-0CC10 — 48 inch (1.2 m) 3VA9278-0CC20 3VA9578-0CC20 3VA9877-0CC20 60 inch (1.5 m) 3VA9278-0CC30 3VA9578-0CC30 3VA9877-0CC30 3VA9877-0CC30 3VA9278-0CC30 3VA9578-0CC30 3VA9578-0CC30 3VA9578-0CC30 3VA9578-0CC30 3VA9578-0CC30 3VA9578-0CC30 3VA9578-0CC30 3VA9578-0CC50 3VA9578-0CC50 120 inch (3.0 m) 3VA9278-0CC50 3VA9578-0CC50 3VA9578-0CC50 3VA9877-0CC60 120 inch (3.0 m) 3VA9278-0CC70 3VA9578-0CC70 3VA9877-0CC70	40			OFF	ON				
12K Steel, epoxy-coated 1, 3, 3R, 4, 12, Black Red 3VA9977-0CH72 3VA9877-0CH72 12K Black Black Black 3VA9977-0CH74 3VA9877-0CH74 Stainless steel, 1, 2, 3, 3R, 4, Black Red 3VA9977-0CH82 3VA9877-0CH82 AX, 12, 12K, 13 Black Black Black 3VA9977-0CH82 AX, 12, 12K, 13 Black Bl	i.		types						
Steel, epoxy-coated	#//	Plastic		Black	Red		3VA9977-0CH12		-
12K Black Black 3VA9977-0CH74 3VA9877-0CH74									
Stainless steel, chrome-plated		Steel, epoxy-coated							
chrome-plated 4X, 12, 12K, 13 Black Black 3VA9977-0CH84 — Bowden cables for operating unit with Bowden cable Length 36 inch (0.9 m) 3VA9278-0CC10 3VA9578-0CC10 — 48 inch (1.2 m) 3VA9278-0CC20 3VA9578-0CC20 3VA9578-0CC20 3VA9578-0CC30 3VA9578-0CC30 3VA9578-0CC30 3VA9578-0CC30 3VA9578-0CC30 3VA9578-0CC40 3VA9578-0CC40 3VA9578-0CC40 3VA9578-0CC50 — — 96 inch (2.4 m) 3VA9278-0CC60 3VA9578-0CC60 3VA9578-0CC60 3VA9578-0CC70									
Bowden cables for operating unit with Bowden cable Length 36 inch (0.9 m) 48 inch (1.2 m) 30 inch (1.5 m									3VA9877-0CH82
Length 36 inch (0.9 m) 3VA9278-0CC10 3VA9578-0CC10 - 48 inch (1.2 m) 3VA9278-0CC20 3VA9578-0CC20 3VA9877-0CC20 60 inch (1.5 m) 3VA9278-0CC30 3VA9578-0CC30 3VA9578-0CC30 72 inch (1.8 m) 3VA9278-0CC40 3VA9578-0CC40 3VA9578-0CC40 84 inch (2.1 m) 3VA9278-0CC50 3VA9578-0CC50 - 96 inch (2.4 m) 3VA9278-0CC60 3VA9578-0CC60 3VA9578-0CC70 120 inch (3.0 m) 3VA9278-0CC70 3VA9578-0CC70 3VA9578-0CC70	Powdon cables	· · · · · · · · · · · · · · · · · · ·		віаск	віаск		3VA9977-UCH84		-
36 inch (0.9 m) 3VA9278-0CC10 3VA9578-0CC10 — 48 inch (1.2 m) 3VA9278-0CC20 3VA9578-0CC20 3VA9877-0CC20 60 inch (1.5 m) 3VA9278-0CC30 3VA9578-0CC30 3VA9877-0CC30 72 inch (1.8 m) 3VA9278-0CC40 3VA9578-0CC40 3VA9877-0CC40 84 inch (2.1 m) 3VA9278-0CC50 3VA9578-0CC50 — 96 inch (2.4 m) 3VA9278-0CC60 3VA9578-0CC60 3VA9877-0CC60 120 inch (3.0 m) 3VA9278-0CC70 3VA9578-0CC70	Bowdell Cables		owden cable						
48 inch (1.2 m) 3VA9278-0CC20 3VA9578-0CC20 3VA9877-0CC20 60 inch (1.5 m) 3VA9278-0CC30 3VA9578-0CC30 3VA9877-0CC30 72 inch (1.8 m) 3VA9278-0CC40 3VA9578-0CC40 3VA9877-0CC40 84 inch (2.1 m) 3VA9278-0CC50 3VA9578-0CC50 - 96 inch (2.4 m) 3VA9278-0CC60 3VA9578-0CC60 3VA9877-0CC60 120 inch (3.0 m) 3VA9278-0CC70 3VA9578-0CC70	†					3VA927	8-0CC10	3VA9578-0CC10	_
60 inch (1.5 m) 3VA9278-0CC30 3VA9578-0CC30 3VA9877-0CC30 72 inch (1.8 m) 3VA9278-0CC40 3VA9578-0CC40 3VA9877-0CC40 84 inch (2.1 m) 3VA9278-0CC50 3VA9578-0CC50 - 96 inch (2.4 m) 3VA9278-0CC60 3VA9578-0CC60 3VA9877-0CC60 120 inch (3.0 m) 3VA9278-0CC70 3VA9578-0CC70									3VA9877-0CC20
72 inch (1.8 m) 3VA9278-0CC40 3VA9578-0CC40 3VA9577-0CC40 84 inch (2.1 m) 3VA9278-0CC50 3VA9578-0CC50 - 96 inch (2.4 m) 3VA9278-0CC60 3VA9578-0CC60 3VA9578-0CC60 120 inch (3.0 m) 3VA9278-0CC70 3VA9578-0CC70									
84 inch (2.1 m) 3VA9278-0CC50 3VA9578-0CC50 - 96 inch (2.4 m) 3VA9278-0CC60 3VA9578-0CC60 3VA9877-0CC60 120 inch (3.0 m) 3VA9278-0CC70 3VA9578-0CC70 3VA9578-0CC70									
120 inch (3.0 m) 3VA9278-0CC70 3VA9578-0CC70 3VA9877-0CC70									
		96 inch (2.4 m)				3VA927	8-0CC60	3VA9578-0CC60	3VA9877-0CC60
144 inch (3.6 m) 3VA9278-0CC80 3VA9578-0CC80 3VA9877-0CC80						3VA927	8-0CC70	3VA9578-0CC70	3VA9877-0CC70
		144 inch (3.6 m)				3VA927	8-0CC80	3VA9578-0CC80	3VA9877-0CC80

							3VA53	
						3VA52	3VA54	3VA55
						3VA61	3VA63	3VA65
					3VA51	3VA62	3VA64	3VA66
Auxiliary switch	es for operating unit wit	h Bowden cable						
//	Leading from ON to C)FF						
	Types							
	1 CO					3VA9478-0CX10		-
78	2 CO					3VA9478-0CX20		-
Operating units	with linkage							
	Complete set, compri Switching mechan Handle For mounting depths	ism						
	Handle	Enclosure types	OFF	ON				
_	Steel, epoxy-coated	1, 12, 3R	Black	Red	3VA9138-0DK72	3VA9278-0DK72	3VA9478-0DK72	-
	Steel, chrome-plated	4/4X	Black	Red	3VA9138-0DK82	3VA9278-0DK82	3VA9478-0DK82	-
			Black	Black	3VA9138-0DK84	3VA9278-0DK84	3VA9478-0DK84	-

Motor operators

Motor operators w	ithout stored energy o	operators (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
U	•	•	800 1700 ms	1000 1700 ms	800 1400 ms	800 1400 ms	250 W, max. 500 W (60 ms)
Motor operators w	ith stored energy ope	rators (SEO520)					
Commence Of	Addressable via control signals	Isolating features in accordance with	Make time, typi	cally for 3VA6	Break time, typi	cally for 3VA6	Rated operational
		IEC/EN 60947-1					power
	•	•	< 80 ms	< 80 ms	< 80 ms	< 80 ms	300 W, max. 500 W (60 ms)

Mechanical opera	ting cycles counters (for installation in the SEO520)	
	Mounting	Article No.
THE REAL PROPERTY.	For installation in the SEO520	3VA9987-0HX10
Cylinder lock adar	oters for SEO520	
	Mounting	Article No.
0	For installation of cylinder locks in the SEO520	3VA9980-0LF30
Cylinder locks (typ	pe RONIS)	
	 Includes a lock with 2 keys For locking the operating mode (Manual/Auto/Lock) of the SEO520 	
7. 1	Key	Article No.
2 /2	1	3VA9980-0VL10
	3	3VA9980-0VL30
	4	3VA9980-0VI 40

				3VA53
			3VA52	3VA54
			3VA61	3VA63
		3VA51	3VA62	3VA64
Rated control	With			
supply voltage	communication			
24 60 V DC	-	3VA9137-0HA10	3VA9277-0HA10	3VA9447-0HA10
110 230 V AC/	-	3VA9137-0HA20	3VA9277-0HA20	3VA9447-0HA20
110 250 V DC				
Rated control	With			

supply voltage	communication			
	******		200277 00540	
supply voltage 24 V DC	******	-	3VA9277-0HC10	-
	******	- -	3VA9277-0HC10 3VA9277-0HC20	- -
24 V DC	******	- - -		- - -
24 V DC 42 60 V AC/DC	******	- - -	3VA9277-0HC20	- - -
24 V DC 42 60 V AC/DC 110 230 V AC/	******	- - -	3VA9277-0HC20	- - -
24 V DC 42 60 V AC/DC 110 230 V AC/ 110 250 V DC	communication	- - - -	3VA9277-0HC20 3VA9277-0HC30	- - - -
24 V DC 42 60 V AC/DC 110 230 V AC/ 110 250 V DC 24 V DC	communication Yes	- - - -	3VA9277-0HC20 3VA9277-0HC30 3VA9277-0HC15	- - - -



Reset mode

All motor operators have the following reset modes:

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

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



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

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Box terminals							
	Number of poles	Conne	ction options	Scope of supply	Cable cro	ss-section, Cu st	randed, class B
					Min.	Max.	
AND STREET	3P	0	2	3 single terminals	AWG 14	3/0	
0 0 0					AWG 10	3/0	
					AWG 4	350 kcmil	
					1/0	500 kcmil	
9000	4P	0	2	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 co	ntrol wire tap						
	Number of poles	Conne	ction options	Scope of supply		ss-section, Cu st	randed, class B
					Min.	Max.	
	3P	0	2	3 single terminals	AWG 14	3/0	
0 0 0					AWG 10	3/0	
					AWG 4	350 kcmil	
					1/0	500 kcmil	
7700	4P	0	2	4 single terminals	AWG 14	3/0	
0 0 0					AWG 10	3/0	
					AWG 4	350 kcmil	
					1/0	500 kcmil	
Nut keeper kits							
	Number of poles		ction options	Scope of supply	Max. tap		Max. tap thickness
<u>ាក</u> ា	3P	0	2	3 terminals	17 mm	0.66 inch	6.5 mm
1.02.7[8]					25 mm	0.98 inch	8 mm
					35 mm	1.37 inch	10 mm
					50 mm	1.96 inch	28 mm
0000	4P	0	@	4 terminals	17 mm	0.66 inch	6.5 mm
10.11 (0)					25 mm	0.98 inch	8 mm
					35 mm	1.37 inch	10 mm
					50 mm	1.96 inch	28 mm

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

			3VA53	
			3VA54	3VA55
		3VA61	3VA63	3VA65
3VA51	3VA52	3VA62	3VA64	3VA66
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	-	-	-	-
-	3VA9234-0QA00	3VA9244-0QA00	-	-
_	_	_	3VA9474-0QA00	-



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

rcular conductor	terminals, 1 cable							
	Number of poles	Conne	ection options	Scope of supply	Cable cross	s-section	Cu/AL	stranded, class B 1)
					Min.	Max.	Cu	Al
200	3P	0	2	3 single terminals	AWG 14	AWG 8		-
ลล					AWG 14	1/0		
								-
					AWG 8	3/0		
					AWG 6	350 kcmil		
					AWG 1	600 kcmil		
200	4P	0	0	4 single terminals	AWG 14	AWG 8		-
กกก					AWG 14	1/0		•
								-
					AWG 8	3/0		
					AWG 6	350 kcmil		
					AWG 1	600 kcmil		
rcular conductor	terminals with contro	l wire ta	ps, 1 cable					
	Number of poles	Conne	ection options	Scope of supply	Cable cross	s-section	Cu/AL	stranded, class B 1)
					Min.	Max.	Cu	Al
	3P	0	2	3 single terminals				
ត្រាត		_	•	3 single terminals	AWG 14	AWG 8		_
Wy			•	3 single terminals	AWG 14 AWG 14	1/0	•	•
5.7 6 77			.	3 single terminals				
<i>3.7</i> 4 <i>7 7</i>			9	o single terminals			•	
5.7 ()//			ğ	3 Single terminals	AWG 14	1/0	:	-
			9	3 Single terminals	AWG 14	1/0	÷	
	4P	0	0	4 single terminals	AWG 14 AWG 8 AWG 6	1/0 3/0 350 kcmil	ŧ	:
วิสิสิส	4P			J	AWG 14 AWG 8 AWG 6 AWG 1	1/0 3/0 350 kcmil 600 kcmil	:	:
ใส่สิสส	4P			J	AWG 14 AWG 8 AWG 6 AWG 1 AWG 14	3/0 350 kcmil 600 kcmil AWG 8	1	
ใสโสโสโ	4P			J	AWG 14 AWG 8 AWG 6 AWG 1 AWG 14	3/0 350 kcmil 600 kcmil AWG 8	1	-
โลโลโล	4P			J	AWG 14 AWG 8 AWG 6 AWG 1 AWG 14 AWG 14	3/0 350 kcmil 600 kcmil AWG 8	:	-

 $^{^{\}mbox{\scriptsize 1)}}\,$ 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
3VA51	3VA52	3VA62	3VA63	3VA64	3VA66
3VA9133-0JB10	-	-	-	-	-
-	3VA9233-0JB11	-	-	_	-
-	-	3VA9143-0JB11	-	-	-
3VA9133-0JB11	-	-	-	-	-
-	3VA9233-0JB12	3VA9243-0JB12	-	-	-
-	-	-	3VA9373-0JB13 ²⁾	-	-
3VA9134-0JB10	-	_	-	_	-
-	3VA9234-0JB11	-	-	-	-
-	-	3VA9144-0JB11	-	_	-
3VA9134-0JB11	-	-	-	-	-
-	3VA9234-0JB12	3VA9244-0JB12	-	_	-
-	-	-	3VA9374-0JB13 ²⁾	_	-
3VA9133-0JG10	-	-	-	-	-
_	3VA9233-0JG11 new	_	_	_	_
_	-	3VA9143-0JG11	_	_	_
3VA9133-0JG11	-	_	_	_	_
_	3VA9233-0JG12	3VA9243-0JG12	_	_	_
_	_	_	3VA9373-0JG13	_	_
3VA9134-0JG10	-	_	_	_	_
_	3VA9234-0JG11 new	-	-	-	-
-	-	3VA9144-0JG11	-	_	-
3VA9134-0JG11	_	-	-	_	_
-	3VA9234-0JG12	3VA9244-0JG12	_	_	

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

Number of poles	Conn	ection options	Scope of supply	Cable cros	ss-section, Cu stranded, class B
				Min.	Max.
3P	0	2	3 single terminals	AWG 14	AWG 8
				AWG 14	2/0
				AWG 14	1/0
				AWG 6	350 kcmil
				AWG 1	600 kcmil
4P	0	2	4 single terminals	AWG 14	AWG 8
				AWG 14	2/0
				AWG 14	1/0
				AWG 6	350 kcmil
				AWG 1	600 kcmil
luctor terminals with	contro	l wire taps, 1 cable			
Number of poles	Conn	ection options	Scope of supply	Cable cros	ss-section, Cu stranded, class B
				Min.	Max.
3P	0 0	@	3 single terminals	AWG 14	AWG 8
				AWG 14	2/0
			AWG 14	1/0	
				AWG 6	350 kcmil
				AWG 1	600 kcmil
4P	0	2	4 single terminals	AWG 14	AWG 8
				AWG 14	2/0
				AWG 14	1/0
				AWG 6	350 kcmil
				AWG 1	600 kcmil
r busbars					
	Conn	ection options			

				3VA53	
				3VA54	3VA55
			3VA61	3VA63	3VA65
	3VA51	3VA52	3VA62	3VA64	3VA66
3\	/A9133-0JD10	-	-	-	-
3\	/A9133-0JD11	-	-	-	-
	-	3VA9233-0JD11 new	3VA9143-0JD11	-	_
	-	3VA9233-0JD12	3VA9243-0JD12	-	_
	-	-	-	3VA9373-0JD13	-
3\	/A9134-0JD10	-	-	-	-
3\	/A9134-0JD11	-	-	-	-
	-	3VA9234-0JD11 new	3VA9144-0JD11	-	-
	-	3VA9234-0JD12	3VA9244-0JD12	-	-
	-	-	-	3VA9374-0JD13	_
3\	/A9133-0JK10	-	_	-	-
3\	/A9133-0JK11	-	_	-	_
	-	21/4 0 2 2 2 2 2 1 1 4 4			
		3VA9233-0JK11 new	3VA9143-0JK11	-	_
	-	3VA9233-0JK11 new 3VA9233-0JK12	3VA9143-0JK11 3VA9243-0JK12	-	- -
	-				- - -
3\	– – VA9134-0JK10	3VA9233-0JK12	3VA9243-0JK12	-	- - -
		3VA9233-0JK12 –	3VA9243-0JK12 -	– 3VA9373-0JK13	- - - -
	VA9134-0JK10	3VA9233-0JK12 - -	3VA9243-0JK12 - -	– 3VA9373-0JK13 –	- - - - -
	VA9134-0JK10 VA9134-0JK11	3VA9233-0JK12 - - -	3VA9243-0JK12 - - -	– 3VA9373-0JK13 – –	- - - - -
	VA9134-0JK10 VA9134-0JK11	3VA9233-0JK12 - - - - 3VA9234-0JK11	3VA9243-0JK12 - - - - 3VA9144-0JK11	– 3VA9373-0JK13 – – –	- - - - - -
	/A9134-0JK10 /A9134-0JK11 – –	3VA9233-0JK12 - - - 3VA9234-0JK11 3VA9234-0JK12	3VA9243-0JK12 - - - 3VA9144-0JK11 3VA9244-0JK12	– 3VA9373-0JK13 – – – –	- - - - - -
	/A9134-0JK10 /A9134-0JK11 – –	3VA9233-0JK12 - - - 3VA9234-0JK11 3VA9234-0JK12	3VA9243-0JK12 - - - 3VA9144-0JK11 3VA9244-0JK12	– 3VA9373-0JK13 – – – –	- - - - - -
	/A9134-0JK10 /A9134-0JK11 – –	3VA9233-0JK12 - - - 3VA9234-0JK11 3VA9234-0JK12	3VA9243-0JK12 - - - 3VA9144-0JK11 3VA9244-0JK12 -	– 3VA9373-0JK13 – – – –	- - - - - - -
	VA9134-0JK10 VA9134-0JK11 - - -	3VA9233-0JK12 - - - 3VA9234-0JK11 3VA9234-0JK12 -	3VA9243-0JK12 - - - 3VA9144-0JK11 3VA9244-0JK12 -	- 3VA9373-0JK13 - - - - - 3VA9374-0JK13	- - - - - -



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

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-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 parriers	s are inclu	ided in the connection tech	inology scope of supply or can be ordered	as a spare	part (3VA9	WAUU).	
Number of poles	Connec	tion options	Scope of supply	Max. tap	width	Max. tap	thickness
3P	0	0	3 terminals, 2 phase barriers, 1 insulating plate	22 mm	0.9 inch	8 mm	0.3 inch
4P	0	0	4 terminals, 3 phase barriers, 1 insulating plate	22 mm	0.9 inch	8 mm	0.3 inch

Front bus connectors, with insulating plate

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



poles	Comin	ection options	Scope of Supply	Max. tap widti	Max. tap thickness
1P	0	-	1 terminal	22 mm 0.9 inch	8 mm 0.3 inch
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	0	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 offset only permitted if used with phase barriers!
- · Phase barriers are included in the connection technology scope of supply or can be ordered as a spare part (3VA9...-.WA00).



Number of poles	Conne	ection options	Scope of supply	Max. tap width	Max. tap thickness
3P	0	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

					3VA55
		3VA53	3VA61	3VA63	3VA65
3VA51	3VA52	3VA54	3VA62	3VA64	3VA66
5005	37732	377/31	31/102	377101	377100
3VA9133-0QB00					
3VA9133-0QB00	_	_	_	_	_
3VA9134-0QB00	-	-	-	-	-
2140424 00200					
3VA9131-0QB00	-	-	-	-	-
-	3VA9273-0QB00	-	3VA9273-0QB00	_	-
-	-	3VA9473-0QB00	-	3VA9473-0QB00	-
_	_	_	3VA9274-0QB00	_	_
_	_	3VA9474-0QB00	-	3VA9474-0QB00	_
		37774-00000		37774-00000	
-	-	-	-	-	3VA9673-0QB00
	_	_	_	_	3VA9674-0QB00
					31.33.100



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

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

Front bus connectors broadened, with insulating plate

- 3-pole and 4-pole bus connectors broadened only permitted if used with insulating plate!

Filase partier:	are inclu	ded in the connection tech	nology scope of supply of call be ofdered a	is a spaie k	Jail (3 VA3V	v/100).	
Number of poles	Connect	tion options	Scope of supply	Max. tap	width	Max. tap 1	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



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

	Number of poles	Conn	ection options	Scope of supply	Max. tap	width	Max. tap thicknes	SS
	3P	0	0	3 terminals, 2 phase barriers	60 mm	2.4 inch	12.5 mm 0.5 incl	า
11	4P	0	2	4 terminals, 3 phase barriers	60 mm	2.4 inch	12.5 mm 0.5 incl	n



3VA55 3VA51 3VA52 3VA54 3VA62 3VA63 3VA65 3VA66 3VA9473-0QC00 - 3VA9473-0QC00 - 3VA9474-0QC00 - 3VA9474-0QC00 - 3VA9474-0QC00 - 3VA9474-0QC00 - 3VA9474-0QC00						
3VA51 3VA52 3VA54 3VA62 3VA64 3VA66 3VA9473-0QC00 - 3VA9473-0QC00 - - 3VA9474-0QC00 - 3VA9474-0QC00 - 3VA9474-0QC00 - 3VA9474-0QC00 -						
3VA9473-0QC00 - 3VA9473-0QC00 3VA9474-0QC00 3VA9474-0QC00 3VA9474-0QC00 3VA9673-0QC00			3VA53		3VA63	
3VA9474-0QC00 - 3VA9474-0QC00 - - 3VA9474-0QC00 - 3VA9474-0QC00 - - 3VA9673-0QC00	3VA51	3VA52	3VA54	3VA62	3VA64	3VA66
3VA9474-0QC00 - 3VA9474-0QC00 - - 3VA9474-0QC00 - 3VA9474-0QC00 - - 3VA9673-0QC00						
3VA9474-0QC00 - 3VA9474-0QC00 - - 3VA9474-0QC00 - 3VA9474-0QC00 - - 3VA9673-0QC00						
3VA9474-0QC00 - 3VA9474-0QC00 - 3VA9673-0QC00						
3VA9474-0QC00 - 3VA9474-0QC00 - 3VA9673-0QC00						
3VA9474-0QC00 - 3VA9474-0QC00 - 3VA9673-0QC00			21/40472 00000		21/40472 00000	
3VA9673-0QC00	_	_	3VA9473-0QC00	_	3VA9473-0QC00	_
3VA9673-0QC00						
3VA9673-0QC00						
3VA9673-0QC00						
	-	-	3VA9474-0QC00	-	3VA9474-0QC00	-
3VA9674-0QC00	-	-	-	-	-	3VA9673-0QC00
3VA9674-0QC00						
3VA9674-0QC00						
	-	-	-	-	-	3VA9674-0QC00



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

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Note:

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

Rear connection stu	ds flat			
	Number of poles	Connec	ction options	Scope of supply
	1P	0	2	1 short connection stud flat
				1 long connection stud flat
	3P	0	2	2 short connection studs flat,
000				1 long connection stud flat
A 60	4P	0	2	2 short connection studs flat,
5555				2 long connection studs flat
Rear connection stu				
	Number of poles	Connec	ction options	Scope of supply
	1P	0	2	1 short connection stud round
				1 long connection stud round
	3P	0	2	1 long connection stud round,
				2 short connection studs round
A) a	4P	0	2	2 long connection studs round,
1				2 short connection studs round

					3VA55
		3VA53	3VA61	3VA63	3VA65
3VA51	3VA52	3VA54	3VA62	3VA64	3VA66
3VA9131-0QE10	3VA9231-0QE10	3VA9471-0QE10	3VA9241-0QE10	3VA9471-0QE10	-
3VA9131-0QE20	3VA9231-0QE20	3VA9471-0QE20	3VA9241-0QE20	3VA9471-0QE20	-
3VA9133-0QE00	3VA9233-0QE00	3VA9473-0QE00	3VA9243-0QE00	3VA9473-0QE00	-
3VA9134-0QE00	3VA9234-0QE00	3VA9474-0QE00	3VA9244-0QE00	3VA9474-0QE00	-
3VA9131-0QF10	3VA9231-0QF10	3VA9471-0QF10	3VA9241-0QF10	3VA9471-0QF10	-
3VA9131-0QF20	3VA9231-0QF20	3VA9471-0QF20	3VA9241-0QF20	3VA9471-0QF20	-
3VA9133-0QF00	3VA9233-0QF00	3VA9473-0QF00	3VA9243-0QF00	3VA9473-0QF00	-
3VA9134-0QF00	3VA9234-0QF00	3VA9474-0QF00	3VA9244-0QF00	3VA9474-0QF00	-



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

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

Number of	Conne	ection options	Scope of supply	Cable cro	ss-section	Cu/AL	stranded, class B
poles				Min.	Max.	Cu	Al
2P	0	-	2 single terminals, 1 extended terminal cover	AWG 4	300 kcmil	•	•
	0	_	3 single terminals,	AWG 4	300 kcmil	•	
			1 extended terminal cover	AWG 2	350 kcmil	•	•
4P	0		4 single terminals,	AWG 4	300 kcmil		
41	U	_	1 extended terminal	AWG 2	350 kcmil	- 1	•
			cover				
erminals, large		trol wire taps, 1 o	cable	Cable cro	ss-section	Cu/AL	stranded, class B
_		trol wire taps, 1 cection options		Cable cros	ss-section Max.	Cu/AL Cu	stranded, class B Al
Number of			cable				
Number of poles	Conne		Scope of supply 2 single terminals, 1 extended terminal cover 3 single terminals,	Min. AWG 4	Max. 300 kcmil 300 kcmil	Cu	Al
Number of poles 2P	Conne		Scope of supply 2 single terminals, 1 extended terminal cover	Min. AWG 4	Max. 300 kcmil	Cu ■	•
Number of poles 2P	Conne		Scope of supply 2 single terminals, 1 extended terminal cover 3 single terminals, 1 extended terminal	Min. AWG 4	Max. 300 kcmil 300 kcmil	Cu ■	AI ■

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

					3VA55
		3VA53	3VA61	3VA63	3VA65
3VA51	3VA52	3VA54	3VA62	3VA64	3VA66
3VA9132-0JJ12	-	-	-	-	-
3VA9133-0JJ12	-	-	-	-	-
-	3VA9233-0JJ13	-	3VA9243-0JJ13	-	-
3VA9134-0JJ12	-		-	_	
-	3VA9234-0JJ13	_	3VA9244-0JJ13	_	_
	347.0231.03313		347/3211 03313		
3VA9132-0JC12	-	-	-	-	-
3VA9133-0JC12	-	-	-	-	-
-	3VA9233-0JC13	-	3VA9243-0JC13	-	-
3VA9134-0JC12	-	-	-	-	-
-	3VA9234-0JC13	-	3VA9244-0JC13	-	-

Connection technology



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

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

Number of	Conne	ction options	Scope of supply	Cable cross	s-section	Cu/AL	stranded, class B 1)
poles				Min.	Max.	Cu	Al
3P	0	-	3 single terminals,	AWG 4	300 kcmil		
			1 extended terminal cover	2/0	600 kcmil	•	•
			3 single terminals, 1 intermediate terminal cover	400 kcmil	750 kcmil	•	-
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, 1 intermediate terminal cover	400 kcmil	750 kcmil	•	-
4P	0	-	4 single terminals, 1 short terminal cover	4/0	600 kcmil	•	•
			1 short terminal cover				
terminals with c			ıs	Cable cross	s-section	Cu/Al	stranded, class B ¹
terminals with c Number of poles				Cable cross	s-section Max.	Cu/AL Cu	.stranded, class B ¹⁾
Number of			ıs				
Number of poles	Conne		s Scope of supply	Min.	Max.	Cu	Al
Number of poles	Conne		Scope of supply 3 single terminals, 1 extended terminal	Min. AWG 4	Max. 300 kcmil	Cu ■	AI
Number of poles	Conne		3 single terminals, 1 extended terminal cover 3 single terminals, 1 intermediate	Min. AWG 4 2/0	Max. 300 kcmil 600 kcmil	Cu ■	
Number of poles 3P	Conne		3 single terminals, 1 extended terminal cover 3 single terminals, 1 intermediate terminal cover 3 single terminals,	Min. AWG 4 2/0 400 kcmil	Max. 300 kcmil 600 kcmil 750 kcmil	Cu = =	AI -
Number of poles 3P	Conne		3 single terminals, 1 extended terminal cover 3 single terminals, 1 intermediate terminal cover 3 single terminals,	Min. AWG 4 2/0 400 kcmil	Max. 300 kcmil 600 kcmil 750 kcmil	Cu = =	AI -
Number of poles 3P	O		Scope of supply 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	Max. 300 kcmil 600 kcmil 750 kcmil 600 kcmil	Cu = =	AI
Number of poles 3P	O		Scope of supply 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	Min. AWG 4 2/0 400 kcmil 4/0 AWG 4	Max. 300 kcmil 600 kcmil 750 kcmil 600 kcmil	Cu = =	AI

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

					3VA55
		3VA53	3VA61	3VA63	3VA65
3VA51	3VA52	3VA54	3VA62	3VA64	3VA66
-	3VA9233-0JJ22	-	3VA9243-0JJ22	-	-
-	-	3VA9473-0JJ23	-	3VA9473-0JJ23	-
_	_	_	_	_	3VA9673-0JJ24
					347(3673 63324
-	-	-	-	-	3VA9573-0JB23
_	3VA9234-0JJ22	-	3VA9244-0JJ22	_	-
_	-	3VA9474-0JJ23	-	3VA9474-0JJ23	-
-	-	-	-	-	3VA9674-0JJ24
-	-	-	-	-	3VA9574-0JB23
-	3VA9233-0JC22	-	3VA9243-0JC22	-	-
-	-	3VA9473-0JC23	-	3VA9473-0JC23	-
-	-	-	-	-	3VA9673-0JC24
_	_		_	_	3VA9573-0JG23
					3477373 03023
-	3VA9234-0JC22	-	3VA9244-0JC22	_	-
-	-	3VA9474-0JC23	-	3VA9474-0JC23	-
					21/40674 01624
_	_	_	_	-	3VA9674-0JC24
-	-	-	-	-	3VA9574-0JG23

Connection technology



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

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

Circular conductor to	erminals with cor	ntrol wire taps, 3 cables						
	Number of	Connection options	Scope of supply	Cable cross	s-section	Cu/AL s	stranded, class B 1)	
	poles			Min.	Max.	Cu	Al	
	3P	0 -	3 single terminals, 1 short terminal cover	4/0	400 kcmil	•	•	
क्रक			3 single terminals, 1 long terminal cover	500 kcmil	750 kcmil	•	•	
	4P	0 -	4 single terminals, 1 short terminal cover	4/0	400 kcmil	•	•	
			4 single terminals, 1 long terminal cover	500 kcmil	750 kcmil	•	•	
Circular conductor to	erminals with cor	ntrol wire taps, 3 cables						
	Number of	Connection options	Scope of supply	Cable cross	s-section	Cu/AL s	stranded, class B 1)	
	poles			Min.	Max.	Cu	Al	
क्रिक	3P	0 -	3 single terminals, 1 short terminal cover	4/0	400 kcmil	•	•	
	3P		2 - in als 4in als	500 hil	750 kcmil			
	31	0	3 single terminals, 1 extended terminal cover	500 kcmil	750 KCMII		•	
The same of	4P	0 -	4 single terminals, 1 short terminal cover	4/0	400 kcmil	•	•	
क्रीकाकाका								
1011	4P	0 -	4 single terminals, 1 extended terminal cover	500 kcmil	750 kcmil	•	•	

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

					3VA55
		3VA53	3VA61	3VA63	3VA65
3VA51	3VA52	3VA54	3VA62	3VA64	3VA66
-	-	-	-	-	3VA9673-0JB32
-	-	-	-	-	3VA9673-0JJ34
-	-	-	-	-	3VA9674-0JB32
-	-	-	-	-	3VA9674-0JJ34
-	-	-	-	-	3VA9673-0JG32
-	-	-	-	-	3VA9673-0JC34
-	-	-	-	-	3VA9674-0JG32
-	-	-	-	-	3VA9674-0JC34

Connection technology



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

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

Circular conductor t	erminals, 4 cable	es						
	Number of	Connec	tion options	Scope of supply	Cable cro	Cable cross-section		stranded, class B 1)
	poles				Min.	Max.	Cu	Al
A	3P	0	_	3 single terminals, 1 intermediate terminal cover	4/0	500 kcmil	•	•
S S S S S S S S S S S S S S S S S S S				3 single terminals, 1 extended terminal cover	4/0	600 kcmil	•	•
and an	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 co	ntrol wire	taps, 4 cables					
	Number of	Connection options		Scope of supply	Cable cross-section		Cu/AL stranded, class B 1)	
	poles				Min.	Max.	Cu	Al
alana alana	3P	0	-	3 single terminals, 1 intermediate terminal cover	4/0	500 kcmil	•	•
2000				3 single terminals, 1 extended terminal cover	4/0	600 kcmil	•	•
H H H H	4P	0	-	4 single terminals, 1 intermediate terminal cover	4/0	500 kcmil	•	•
and di				4 single terminals, 1 extended terminal cover	4/0	600 kcmil		•

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

					3VA55
		3VA53	3VA61	3VA63	3VA65
3VA51	3VA52	3VA54	3VA62	3VA64	3VA66
_				_	3VA9673-0JJ43
_	_	_	_	_	3VA9073-0JJ43
-	-	-	-	-	3VA9673-0JJ44 new
-	-	-	-	-	3VA9674-0JJ43
_	_	_	_	_	3VA9674-0JJ44 new
					5 V (5 G) 1 G35 11 Hell
-	-	-	-	-	3VA9673-0JC43
_	_	_	_	_	3VA9673-0JC44 new
					JVAJO7J-OJCTT IIEW
-	-	-	-	-	3VA9674-0JC43
-	-	-	-	-	3VA9674-0JC44 new

Connection technology



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

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

Number of	Conne	ection options	Scope of supply	Cable cros	ss-section	Cu/Al	L stranded, class B
poles				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	•	•
onductor termina	ls, 2 cable	s					
Number of poles	Conne	ection options	Scope of supply	Cable cros	ss-section, Cu strande Max.	ed, class 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		
onductor termina	ls with co	ntrol wire taps, 2	cables				
Number of poles	Conne	ection options	Scope of supply		ss-section, Cu strande	ed, class B	
poles 3P			2 cinalo terminale	Min.	Max. 600 kcmil		
3r	0		3 single terminals, 1 extended terminal cover	2/0	OUU KCINII		
4P	0	-	4 single terminals, 1 extended terminal cover	2/0	600 kcmil		

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

					3VA55
		3VA53	3VA61	3VA63	3VA65
3VA51	3VA52	3VA54	3VA62	3VA64	3VA66
3VA9132-0JF60		_		-	
3VA9132-03100		_	_	_	_
3VA9133-0JF60	3VA9233-0JF60	-	3VA9243-0JF60	3VA9373-0JF60	-
3VA9134-0JF60	3VA9234-0JF60	-	3VA9244-0JF60	3VA9374-0JF60	-
-	-	3VA9473-0JE23	-	3VA9473-0JE23	-
_	_	21/40474 01522	_	21/40474 01522	
_	_	3VA9474-0JE23	_	3VA9474-0JE23	_
		21/40472 011 22		21/40472 011 22	
_	_	3VA9473-0JL23	_	3VA9473-0JL23	_
-	-	3VA9474-0JL23	-	3VA9474-0JL23	-

Connection technology



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

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

						3VA51
r circular o	conductor terminals wit					
	Number of poles	Mounting location	Scope of supply	class I		
				Min.	Max.	
	3P	0 -	3 single terminals, 1 short terminal cover	4/0	400 kcmil	-
ান্ত্রন —	4P	0 -	4 single terminals, 1 short terminal cover	4/0	400 kcmil	-
r circular	conductor terminals wit	n auxiliary conductor c	onnection, 4 cables			
	Number of poles	Mounting location	Scope of supply	Cable class I	cross-section, Cu stranded,	
				Min.	Max.	
7	3P	0 -	3 single terminals, 1 intermediate terminal cover	4/0	500 kcmil	-
8	4P	0 -	4 single terminals, 1 intermediate terminal cover	4/0	500 kcmil	-
nal covers	for fixed-mounted, plug	-in and withdrawable				
	Version	Number of poles	Mounting location			
THE STORY	Short	1P	0 -			3VA9131-0WD10
		3P	0 -			3VA9131-0WD30
		4P	0 -			3VA9131-0WD40
	Intermediate 1)	3P	0 -			-
		4P	0 -			-
and annual	Extended	2P	0 -			3VA9131-0WF20
o Chille		3P	0 -			3VA9131-0WF30
		4P	0 -			3VA9131-0WF40
	Broadened	3P	0 -			_
		4P	0 -			-

3VA9271-0WI	3VA61 3VA62	3VA53 3VA54	3VA63 3VA64	3VA9673-0JK32 new 3VA9674-0JK32 new 3VA9673-0JL43 new
-				3VA9673-0JK32 new 3VA9674-0JK32 new 3VA9673-0JL43 new
		-		3VA9674-0JK32 new
		-		3VA9674-0JK32 new
	-	-		3VA9674-0JK32 new
		-	-	3VA9674-0JK32 new
	- - - -	-	-	3VA9674-0JK32 new
		-	-	3VA9673-0JL43 <mark>new</mark>
		-		3VA9673-0JL43 <mark>new</mark>
		-		
	-	-	-	
	-	-		
	-	-		
	-	-	-	
	-	-	-	
	-	-	-	3VA9674-0JL43 <mark>new</mark>
	-	-	-	3VA9674-0JL43 new
				3VA9074-001243 HEW
3VA9271-0WI	-	-	-	-
		3VA9471-0WD30	3VA9471-0WD30	3VA9671-0WD30
3VA9271-0WI	040 3VA9271-0WD40	3VA9471-0WD40	3VA9471-0WD40	3VA9671-0WD40
-	-	-	-	3VA9671-0WE30
-	-	-	-	3VA9671-0WE40
	_	_	_	_
3VA9271-0W		3VA9471-0WF30	3VA9471-0WF30	3VA9671-0WF30 new
3VA9271-0W		3VA9471-0WF40	3VA9471-0WF40	3VA9671-0WF40 new
547.527 T OW	37,3271 371 40	37/3171 37/1 40	377,317 T OWI 40	377,307 T 3111 TO HEW
		2)/// 474 014/632	21/40/474 014/632	
-	-	3VA9471-0WG30	3VA9471-0WG30	-
-	-	3VA9471-0WG40	3VA9471-0WG40	-

Connection technology



- 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

				3VA51
for plug-in and with	drawable units (spare par	t)		
To provide circFor mounting	cuit breaker touch protection to the molded case circuit	on breaker		
Number of pole	S	Mounting	g location	
3P		• -		-
4P		0 -		-
specially for fixed n	nounting			
		Mountine	g location	
Standard	2P			3VA9131-0WJ20
	3P			3VA9131-0WJ30
				3VA9131-0WJ40
Broadened			-	_
	4P	0 -		-
Scope of supply		Mounting	g location	
2 phase barriers		0	9	3VA9132-0WA00
	• To provide cir. • For mounting Number of pole 3P 4P specially for fixed n Version Standard Broadened	To provide circuit breaker touch protectie For mounting to the molded case circuit Number of poles 3P 4P specially for fixed mounting Version Standard 2P 3P 4P Broadened 3P 4P Scope of supply	specially for fixed mounting Version Number of poles Mountin Standard 2P 1 - 3P 1 - 4P 1 - Broadened 3P 1 - 4P 1 - Scope of supply Mountin	To provide circuit breaker touch protection For mounting to the molded case circuit breaker Number of poles AP Mounting location 4P To - Specially for fixed mounting Version Standard 2P 3P AP Number of poles Mounting location Standard 4P To - Broadened 3P AP Mounting location Scope of supply Mounting location Mounting location Mounting location Mounting location Mounting location Mounting location

				3VA55
	3VA61	3VA53	3VA63	3VA65
3VA52	3VA62	3VA54	3VA64	3VA66
-	3VA9143-0KB01	-	3VA9343-0KB01	-
-	3VA9144-0KB01	-	3VA9344-0KB01	-
-	-	-	-	-
3VA9271-0WJ30	3VA9271-0WJ30	3VA9471-0WJ30	3VA9471-0WJ30	-
3VA9271-0WJ40	3VA9271-0WJ40	3VA9471-0WJ40	3VA9471-0WJ40	-
-	-	3VA9471-0WK30	3VA9471-0WK30	-
-	-	3VA9471-0WK40	3VA9471-0WK40	-
3VA9272-0WA00	3VA9272-0WA00	3VA9472-0WA00	3VA9472-0WA00	3VA9672-0WA00

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.

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

		3VA61		
		3VA62	3VA63	3VA64
Plug-in units, conv	version kits			
inn T	Scope of supply: Screw-fastened terminal covers for molded case circuit breakers Plug-in contacts Cable cages Autotrip plunger			
वंवव	Number of poles			
	3P	3VA9143-0KP10	3VA934	3-0KP10
	4P	3VA9344-0KP10	3VA934	4-0KP10
Cable cages for pl	ug-in/withdrawable units			
	 Cable duct for routing of the required cables from the internal accessories on the back of the circuit breaker Number of poles 			
CANADA SANCE	3P/4P	3VA9167-0KB02	-	-
Door feedthrough	s			
-	Number of poles			
	3P/4P	3VA9147-0KT00	3VA934	7-0KT00
Spare part autotri				
	Version			
	Plug-in unit	3VA9267-0KP81	3VA9457-0KP81	3VA9457-0KP81
	Withdrawable unit	3VA9267-0KD81	3VA9457-0KD81	3VA9457-0KD81

Accessories

Communication links for withdrawable unit				
	Scope of supply		Article No.	
	Set of cables with three sp 3VA9987-0KC10 connect	pecial position signaling switches, ing cables	3VA9977-0KC00	
ttt,				
Position signaling swi	tches for withdrawable uni	t and plug-in unit		
di .			Article No.	
			3VA9977-0KB00	
Connecting cables				
	Use		Article No.	
	Connection of position sig	gnaling switches for communication with COM060	3VA9987-0KC10	
Cranks for withdrawa	ole units			
	Version	Scope of supply	Article No.	
	Insulated	Including crank holder	3VA9987-0KD81	
Auxiliary circuit conne	ectors			
	Each auxiliary circuit co	onnector is designed for 4 cables.		
	Version		Article No.	
14	For all withdrawable units		3VA9977-0KD80	
-	For all plug-in units		3VA9977-0KP80	

Plug-in and withdrawable technology

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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	3VA9980-0VI 40

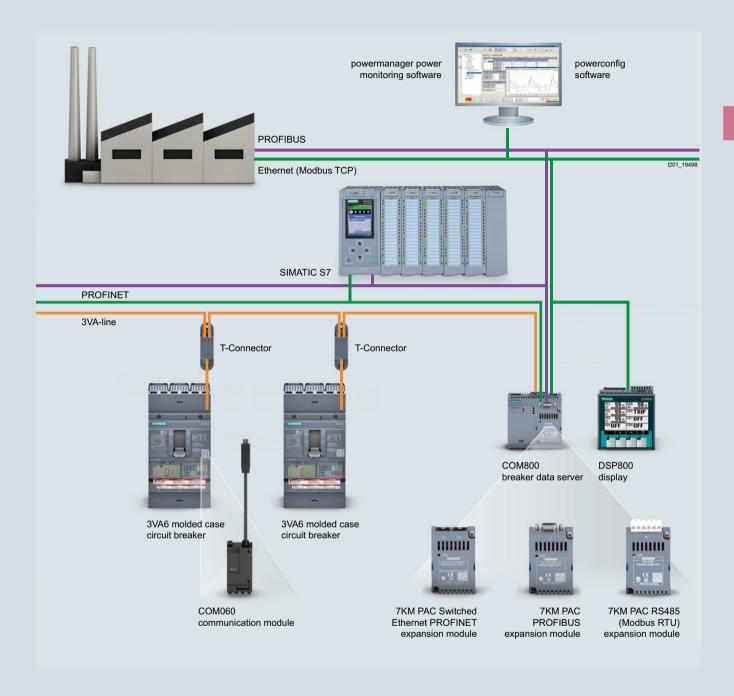
Cylinder lock adapters for withdrawable units



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

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

Communication



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Communication

Metering function ¹⁾			ETU 5-series	ETU 8-series	Display in ETU	Display DSP800	Communication COM800/ COM100
Current							
Phase and neutral conductor currents	I ₁ , I ₂ , I ₃ , I _N	Α	•				
Residual current to ground	I_{g}	Α	•				
Phase with highest load		Α	•				
Mean 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. mean value	$U_{12}, U_{23}, U_{31}, U_{\rm phavg}$	V	-				
Voltages to N conductor incl. mean value	U_{1N} , U_{2N} , U_{3N} , U_{Navg}	V	-		-		
Voltage unbalance		%	-		-		
THD phase/phase and phase/N	THDI ₁ , THDI ₂ , THDI ₃	%	-		-		
Power							
Active power, total and per phase	P ₁ , P ₂ , P ₃ , P _{tot}	kW	-		□ (P _{tot})		•
Apparent power, total and per phase	S ₁ , S ₂ , S ₃ , S _{tot}	kVA	-		-		
Reactive power, total and per phase	$Q_1, Q_2, Q_3, Q_{\text{tot}}$	kVAr	-				
Power factor of the fundamental	P _{F1} , P _{F2} , P _{F3} , P _{Favg}		-		□ (PF _{avg})		
Energy							
Active energy, infeed and feedback	E _p	kWh	-				
Reactive energy, infeed and feedback	Eq	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

			3VA63
			3VA64
		3VA61	3VA65
		3VA62	3VA66
COM060 communic	ation 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
24 V modules			
N. N.	24 V DCFor mounting in the right-hand accessories compartment of the 3VA6		
10	Use		
	Optional energy supply for the ETU, also includes continuous operation of the ETU display and the metering function of the ETU 8-series	3VA9177-0TB50	3VA9377-0TB50

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

Breaker data server

COM800 breaker data servers



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

COM100 breaker data servers



Article No. Version

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

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

3VA9977-0TA10

3VA9977-0TA20

7KM PAC Switched Ethernet PROFINET expansion modules



Use Article No. Used for connecting the COM800/COM100 breaker data server, and the connected 3VA molded case circuit 7KM9300-0AE02-0AA0

breakers, to PROFINET via two Ethernet interfaces. Supplies the state and measured variables of the 3VA molded case circuit breakers to PROFINET via the PROFINET IO, PROFIenergy and Modbus TCP protocols.

7KM PAC RS485 Modbus RTU expansion modules



Use Article No. Used for connecting the COM800/COM100 breaker data server, and the 3VA molded case circuit breakers 7KM9300-0AM00-0AA0

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.

Communication

Accessories for communication

T-connectors (spare part) Article No. Provides a stub connection to the COM060 and loops through to the next circuit breaker. 3VA9987-0TG10 Including connection adapter for mounting on the 3VA6 circuit breaker enclosure DIN rail adapters Use Article No. 3VA9987-0TG11 For snapping the T-connector onto a DIN rail Prefabricated connecting 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 connecting cables for extending the COM060 – T-connector stub connection Article No. Length 0.4 m 3VA9987-0TF20 0.8 m 3VA9987-0TF10 Additional bus terminating resistors Article No. 3VA9987-0TE10 Voltage tap to external N conductors Use Article No. Cable for connection of the star point for the metering function of the 8-series ETU, length 1.5 m 3VA9987-0UC10 External current transformers as straight-through transformers Article No. Use Rated current In 25 ... 150 A Connection of an external current transformer for the neutral conductor 3VA9077-0NA10 for 3-pole 3VA6 molded case circuit breakers for 5-series and 8-series ETUs 160 ... 350 A 3VA9177-0NA10 (ETU850, ETU856, ETU860), including connecting cables 400 ... 600 A 3VA9377-0NA10 600 ... 1000 A 3VA9677-0NA10

Display

Display DSP800 for connection to COM800/COM100 Use 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.

3VA9977-0UF10

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 FTU of 3VA6 molded case circuit breakers	3\/49977_0 410

Connecting cables for EFB300



Let					
	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

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

TD300	test devices

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

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 ETIT (3VA and IEC 3WI ETIT Release 2)	3\/W9011-0AT40

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.

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

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)



3VA9977-0MY10

Article No.

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

Locking, blocking and interlocking

					3VA53	
					3VA54	
				3VA61	3VA63	
		3VA51	3VA52	3VA62	3VA64	
Version						
Cylinder lock	Key 1 (lock number 1)		3VA9980-0VL10		3VA9980-0VL10	
	Key 3 (lock number 3)		3VA9980-0VL30		3VA9980-0VL30	
	Key 4 (lock number 4)		3VA9980-0VL40		3VA9980-0VL40	
		3VA9137-0LF10	3VA9237-0LF10	3VA9147-0LF10	3VA9347-0LF10	
Blocking device for hand	dle	3VA9038-0LB10	3VA937	8-0LB10	3VA9378-0LB10	
	circuit breakers in eith Version Cylinder lock Adapter kit for mounting accessories compartment	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 3VA9137-0LF10	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) Sey 4 (lock number 4) Adapter kit for mounting the cylinder lock (type RONIS) in the accessories compartment of the molded case circuit breaker 3VA9137-0LF10 3VA9237-0LF10	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) Sey 4 (lock number 4) Adapter kit for mounting the cylinder lock (type RONIS) in the accessories compartment of the molded case circuit breaker 3VA9980-0VL10 3VA9980-0VL10 3VA9980-0VL40 3VA9980-0VL40	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 3VA9137-0LF10 3VA9237-0LF10 3VA9147-0LF10 3VA9347-0LF10

¹⁾ Contains mounting plate and profile rails

3VA55 3VA65 3VA66 3VA9980-0VL10 3VA9980-0VL30

3VA9980-0VL40

3VA9577-0LF10

3VA9578-0LB10

LOCKING					
Use in	Locking in OFF position	Locking in ON position	Front mounting	Rear mounting	Interlocked breakers
Breakers, motor opera- tors, manual operators, withdrawable technology	•	•	•	-	0
Circuit breaker	•	•	•	-	-
Circuit breaker	•	•	•	-	0

Locking, blocking and interlocking

						3VA53
						3VA54
					3VA61	3VA63
			3VA51	3VA52	3VA62	3VA64
	two or more molded case circ	r, it is possible to mutually interlock uit breakers.				
		ed to ensure that no more than one				
	 molded case circuit breaker ca The following methods of interest 	an be operated at a time. Priocking can be used on 3VA molded				
	case circuit breakers:	J				
	Front interlockRear interlock					
1	Version					
	Cylinder lock	Key 1 (lock number 1)		3VA9980-0VL10		3VA9980-0VL10
	Cyllilder lock	Key 3 (lock number 3)		3VA9980-0VL10		3VA9980-0VL10
		Key 4 (lock number 4)		3VA9980-0VL30		3VA9980-0VL40
		ney i (lock number 1)		347,3300 04210		347.5300 04210
	Sliding bar interlock for		3VA9138-0VF30	3VA9238-0VF30	3VA9148-0VF30	3VA9348-0VF30
į	interlocking 2 circuit breakers					
-	Module for handle interlock	One module for handle interlock is	3VA9137-0VF10	3VA9237-0VF10	3VA9147-0VF10	3VA9347-0VF10
١	with Bowden cable	required for each switching device.				
		A Bowden cable must be ordered separately.				
-	Bowden cable	Length 0.6 m		3VA9980-0VC10		3VA9980-0VC10
	bowden cable	Length 1.0 m		3VA9980-0VC10		3VA9980-0VC10
		Length 1.5 m		3VA9980-0VC30		3VA9980-0VC30
		g				
-	Rear interlock with rod	Circuit breaker, fixed-mounted		3VA9078-0VM10		3VA9078-0VM10
		Plug-in/withdrawable technology		3VA9078-0VM30		3VA9078-0VM30
-	Mounting frame for rear inter-	Profile rails (2 units)		3VA9078-0VK10		3VA9078-0VK10
	lock with rod for fixed-mounted					
1	version	Mounting plate	3VA9138-0VK20	3VA9238-0VK20	3VA9248-0VK20	3VA9448-0VK20

3VA55 3VA65 3VA66

Interlocking

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

Use in	Locking in OFF position	Locking in ON position	Front mounting	Rear mounting	Interlocked breakers
Breakers, motor opera- tors, manual operators, withdrawable technology	•	•	•	-	0
Circuit breaker	-	-	•	-	3
Circuit breaker	-	-	•	-	3
Circuit breaker, fixed-mounted Plug-in/withdrawable technology	-	-	_	•	2
Fixed-mounted	-	-	_	•	

Cover frame and mounting

			3VA51
Cover frames for d	oor cutouts for molded case circu	it breakers	
	Number of poles	Door cut-out with trip unit	
	3P	No	3VA9033-0SB10
		Yes	3VA9033-0SB20
	4P	No	3VA9034-0SB10
		Yes	3VA9034-0SB20
Cover frames for M	IO320 motor operators		
	Use		
	MO320 motor operator		3VA9033-0SB10
	Motor operator with SEO520 sto	ored energy operator	-
Cover frames for fr	ont mounted rotary operators		
Cover Hames for H	one mounted rotary operators		
			3VA9033-0SB10
Cover frames for d	oor feedthroughs		
			-
Labeling plates for	cover frame		
The state of the s			3VA9087-0SX10
Adapters for 60 mr	n busbar system (8US)		
8	Busbar adapter systems with For mounting on the busbar a	60-mm spacing between busbars adapter, box terminals for the infeed side must be ordered separately. or the outgoing side can be chosen freely.	
elele	Number of poles		
	3P		8US1211-4SS00
8 • • • • • • • • • • • • • • • • • • •	4P		-
Mounting screw ki	ts		
î	Use	Number of poles	
	For fixed-mounted breakers	1P	3VA9151-0SS10
		3P	3VA9126-0SS10
		4P	3VA9124-0SS10
		3P and 4P	-
•	For plug-in and withdrawable technology	-	-

		3VA53	
		3VA54	3VA55
	3VA61	3VA63	3VA65
3VA52	3VA62	3AV64	3VA66
3VA9143-0SB10	3VA9143-0SB10	3VA9373-0SB10	3VA9583-0SB10
3VA9233-0SB20	3VA9143-0SB20	3VA9343-0SB20	3VA9583-0SB20
3VA9144-0SB10	3VA9144-0SB10	3VA9374-0SB10	3VA9584-0SB10
3VA9234-0SB20	3VA9144-0SB20	3VA9344-0SB20	3VA9584-0SB20
3VA9237-0SB30	3VA9237-0SB30	3VA9377-0SB30	-
3VA9147-0SB30	3VA9147-0SB30	-	-
3VA9143-0SB10	3VA9143-0SB10	3VA9373-0SB10	3VA9583-0SB50
3VA9233-0SB20	3VA9233-0SB20	3VA9333-0SB20	-
	3VA:	9087-0SX10	
8US1213-4AP03	8US1213-4AP03	8US1213-4AH04	-
8US1313-4AH03 new	8US1313-4AH03 new	8US1313-4AM04 new	-
-	-	-	-
3VA9126-0SS10	3VA9126-0SS10	-	-
3VA9124-0SS10	3VA9124-0SS10	-	-
-	-	3VA9328-0SS10	-
-	3VA9124-0SS10	3VA9328-0SS10	-

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 (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⁾				A 150	Α	50 A 150 A			100 A 250 A			
Frequency				50/60 Hz			50/60 Hz	Z	50/60 Hz			
Electrical characteristics according to	UL 489											
Rated operational voltage U _e	50/60 Hz AC		480	v, 600 V/3	347 V	480	V, 600 V/	347 V	480	V, 600 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} /I _{cs}	Up to 240 V AC	kA	65/65	10/75	-	65/65	100/75	200/150	65/65	100/75	200/150	
Up to 600 Y/347 V AC	40/40	70/70	100/75	40/40	70/70	100/75						
	Up to 250 V DC ³⁾ Up to 500 V DC ³⁾ Up to 500 V DC ³⁾ Up to 240 V AC Up to 415 V AC Up to 690 V AC Up to 250 V DC ³⁾	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												
- D -	A	mm		105			105			105		
	В	mm		157			175			175		
NSEO O31	С	mm		81			81			81		30 30 200/150 100/75 12/6
LL ž	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.











]						+						
	L400 U G fram			400X l G fram		VL800 UL, MG frame		VL1200 UL, NG frame						.1600 L G fram	
	3-pole			3-pole			3-pole			3-pole		3-pole			
2!	50 A 400) A	4(00 A 600	A	60	00 A 800) A	80	00 A 120	0 A	120	00 A 160	0 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			



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Appendix



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
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
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/2xNxlFA
Everything you need for your order	
3WL air circuit breakers/non-automatic air circuit breakers for	sie.ag/2ScRZK7
AC up to 5000 A, UL	
3VA molded case circuit breakers, UL/IEC	sie.ag/2yPsA2e
Configurators	
3WL air circuit breakers	www.siemens.com/lowvoltage/3wl-configurator
3VA molded case circuit breakers	www.siemens.com/lowvoltage/3va-ul-configurator

Commissioning + operation

Tools/software	
SENTRON powerconfig	www.siemens.com/powerconfig
Manuals	
Communication manual – 3VA molded case circuit breakers with IEC and UL certification	www.siemens.com/lowvoltage/manuals (98746267)
Communication manual – 3WL air circuit breakers via COM35 – PROFINET IO, Modbus TCP	www.siemens.com/lowvoltage/manuals (109757987)
Configuration manual – 3VA selectivity	www.siemens.com/lowvoltage/manuals (109743975)
Configuration manual – 3WL5 air circuit breakers/non-automatic air circuit breakers	www.siemens.com/lowvoltage/manuals (109775570)
Equipment manual – 3VA molded case circuit breakers with UL and IEC certification	www.siemens.com/lowvoltage/manuals (109758561)
System manual – 3WL/3VL circuit breakers with communication capability – Modbus	www.siemens.com/lowvoltage/manuals (39850157)
System manual – 3WL/3VL circuit breakers with communication capability – PROFIBUS	www.siemens.com/lowvoltage/manuals (12560390)
Classroom or online training	
Video tutorial on the 3WL air circuit breaker	www.lowvoltage.siemens.com/wcms/3wl-tutorial
Protection systems in low-voltage power distribution	www.siemens.com/sitrain-lowvoltage (WT-LVAPS)
3WL air circuit breakers, sizes 1-3	www.siemens.com/sitrain-lowvoltage (WT-LVA3WL)
3VA molded case circuit breakers	www.siemens.com/sitrain-lowvoltage (WT-LVA3VA)
Communication with SENTRON components	www.siemens.com/sitrain-lowvoltage (LV-COM)
Maintenance and operation of 3WL circuit breakers with subsequent certification option	www.siemens.com/sitrain-lowvoltage (LV-CBMAIN) www.siemens.com/sitrain-lowvoltage (LV-CBCERT)
Project planning and selection of SENTRON circuit breakers	www.siemens.com/sitrain-lowvoltage (LV-CBPROJ)

Conditions of sale and delivery

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

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

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

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

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

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

1.3 For customers with master or framework agreement

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

2. Additional Terms and Conditions

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

Illustrations are not binding.

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

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

3. Export Regulations

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

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

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

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

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

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

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

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

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

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

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

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

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

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