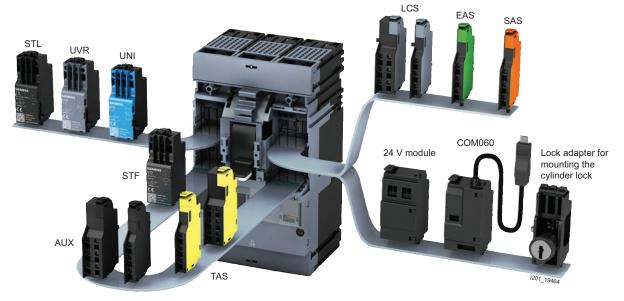
3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Internal accessories

Overview

Color coding of accessories



A color coding system has been used to clearly identify the specific functions of individual accessories:

Color	Auxiliary switches and alarm switches (changeover contacts)	Auxiliary releases
Black	Auxiliary switch AUX	Shunt trip left STL Shunt trip flexible STF
Gray	Leading changeover switch LCS	Undervoltage release UVR
Yellow	Trip alarm switch TAS	
Orange	Short circuit alarm switch SAS	
Green	Electrical alarm switch EAS	
Blue		Universal release UNI

Auxiliary switches

All auxiliary and alarm switches for the 3VA molded case circuit breakers and switch disconnectors belong to an integrated range of accessories. They are consistently designed as changeover contacts. The auxiliary switches can be simply snapped into place and connected up in the accessories compartment provided on the front face of the unit to the left and right of the handle.

The purpose of the auxiliary switches AUX is to signal the position of the main contacts of the molded case circuit breaker. The contacts of the auxiliary switches open and close simultaneously with the main contacts of the molded case circuit breaker.

Leading changeover switches LCS signal the opening of the main contacts with a lead time of 20 ms in advance of the circuit breaker trips and are used for load shedding, for example.

Trip alarm switches TAS signal every circuit breaker tripping operation, regardless of the cause of the trip. The trip alarm switches are actuated whenever the molded case circuit breaker switches to the TRIP position.

Electrical alarm switches EAS are actuated as soon as the main contacts of the molded case circuit breaker open in the event that the breaker is tripped by the ETU.

Special electronic-compatible variants are available for applications which require the auxiliary switch signals to be linked to automation systems.

Auxiliary releases

Auxiliary releases allow remote electrical tripping of the circuit breaker. They can be used to monitor control or main circuits in order to implement a protective system against accidental restart following a power failure, for example.

Undervoltage releases trip the 3VA molded case circuit breaker in the event that the rated voltage of a monitored circuit drops below a minimum permissible limit or fails altogether.

Shunt trips can be used to trip the 3VA molded case circuit breaker remotely. The STF variant can be mounted in either the left-hand or the right-hand accessories compartment. The STL and STL (EI) types are specifically designed for mounting in the left-hand compartment and are very low-consumption devices. The STL (EI) variant can be used to implement electrical interlocks between molded case circuit breakers.

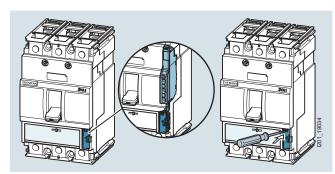
A universal release is a single, 21-mm-wide component in which a shunt trip and an undervoltage release are combined. These are subject to the same tripping conditions as the individual devices.

3VA Molded Case Circuit Breakers up to 1000 A - accessories, IEC

Internal accessories

Short circuit alarm switches SAS

Short circuit alarm switches signal tripping operations only if they have been initiated by a short circuit. Tripping due to a short circuit is also indicated on the molded case circuit breaker.



The tripping operation must be reset by deliberate acknowledgement of the fault before the molded case circuit breaker can be switched to ON again.

Note

Short circuit alarm switches are only compatible with 3VA1 molded case circuit breakers. On breakers equipped with Electronic Trip Units, the short circuit alarm function is performed by the Electronic Trip Unit (ETU) and the EFB external function box.

3VA with internal accessories preassembled at the factory

The basic circuit breakers with -0AA0 at the end of the article number are supplied without installed internal accessories.

Due to the high number of different internal accessory components available and the associated flexibility of use, it is not possible to represent all options with an article number for circuit breakers and installed internal accessories.

However, it is possible to order a basic circuit breaker with pre-defined combinations of internal accessories that are installed at the factory. This concerns a selection of different auxiliary releases and auxiliary/alarm switch combinations especially for each basic circuit breaker type.

Benefits

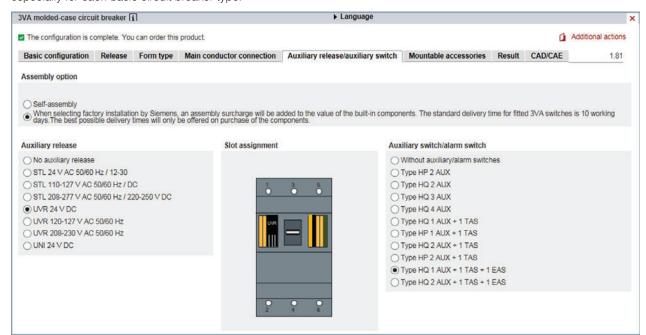
- The internal accessories are extremely easy to install. No tools are required because they are simply snapped into place in the accessories compartments to the left and right of the handle.
- The accessories are connected by screw terminals for auxiliary conductors with a cross-section of up to 2.5 mm². The terminals are mounted on the front of the unit for easy access.
- All auxiliary and alarm switches are designed as changeover contacts and therefore provide a high degree of flexibility for planning and installation purposes.
- Slimline auxiliary and alarm switches HQ and double-width auxiliary and alarm switches HP are suitable for use in applications involving diverse types of signaling contact and with high continuous currents.
- With two conductors per contact point for the auxiliary and alarm switches HP, looping through is extremely easy.
- Symbols engraved in the lid of the accessories compartment indicate the possible mounting positions of the internal accessories.

In the case of factory installation, an installation surcharge is levied for the installed internal accessories.

The normal delivery time for equipped 3VA breakers is 10 working days. The best possible delivery times are only achieved when the individual components are ordered.

Basic circuit breakers with pre-installed internal accessories can only be ordered by registered customers using the 3VA Configurator:

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



3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Internal accessories

Design

Internal accessories Optional equipment		3VA11 2-pole	3VA10 3 and 4-pole	3VA11 3 and 4-pole	3VA12 3 and 4-pole
Andthonor	Slot No.:	23 22 21	23 22 21 11 12 13	23 22 21 11 12 13	24 23 22 21 11 12 13 14
Auxiliary switch	Туре				
	AUX_HQ	x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x	x x x x x x x x x
Auxiliary switch	AUX_HQ_el	x x x	x x x x x x	x x x x x x	x x x x x x x x x x
	AUX_HP	X		X X	x x x x
	LCS_HQ			x	x
Leading changeover switch	LCS_HQ_el			x	х
changeover switch	LCS_HP			х	х
Alarm switch	Туре				
	TAS_HQ	x x	x x x x	x x x x	x x x x
Trip alarm switch	TAS_HQ_el	x x	x x x x	x x x	x x x x
	TAS_HP	X		х	X
Short circuit alarm switch	SAS_HQ			X	X
Official diamin switch	SAS_HQ_el			X	X
Auxiliary release	Туре				
Shunt trip flexible	STF	х	x	x	x
Shunt trip left	STL	х	х	х	х
Shunt trip left	STL (EI)	х	х	х	х
Residual current release	RCR 1)			х	х
Undervoltage release	UVR	x	х	х	×
Universal release	UNI	×	х	х	х
Other					
Cylinder lock (type Ronis)			х	Х	Х

Cylinder lock (type Ronis)

1) Included in the scope of supply for side mounted residual current devices

1201_190

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Internal accessories Optional equipment		3VA13/14 3VA15	3VA15					
Optional equipment		3 and 4-pole 3 and 4-p	3 and 4-pole					
	Slot No.:	5 24 23 22 21 11 12 13 14 15 25 24 23 22 21 1	1 12 13 14 15					
Auxiliary switch	Туре	024 20 22 21 11 12 10 14 10 20 24 20 22 21 11	1 12 10 14 10					
•	AUX_HQ	x x x x x x x x x x x x x x x x x x x	(
A	AUX_HQ_el		(x x x x					
Auxiliary switch	AUX_HP	x x x x x x	х х					
		x x x x x x	х х					
Leading	LCS_HQ	X X	(
changeover switch	LCS_HQ_el	X X	(
	LCS_HP	x	х					
Alarm switch	Туре							
	TAS_HQ	x x x x x	<mark>« x</mark>					
Trip alarm switch	TAS_HQ_el	x x x x x	(x					
	TAS_HP	x x x	x					
Short circuit alarm switch	SAS_HQ	X X	Х					
Onort offcult diarm switch	SAS_HQ_el		Х					
Auxiliary release	Туре							
Shunt trip flexible	STF	x						
01 11:15	STL	x						
Shunt trip left	STL (EI)	x						
Undervoltage release	UVR	x						
Universal release	UNI	x						
Other								
Cylinder lock (type Ronis)		X	Х					

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Internal accessories		3VA20/21/22 3VA20/21/22
Optional equipment		3-pole 4-pole
	Slot No.:	250 A
Auxiliary switch		24 23 22 21 11 12 13 14 34 33 32 31 24 23 22 21 11 12 13 14
Auxiliary switch	Type	
	AUX_HQ	x x x x x x x x x x x x x x x x x x x
Auxiliary switch	AUX_HQ_el	
	AUX_HP	
	LCS_HQ	X X X X X X X X X X X X X X X X X X X
Leading changeover switch	LCS_HQ_el	x
changeover switch	LCS_HP	x
Alarm switch	Туре	
	TAS_HQ	
Trip alarm switch	TAS_HQ_el	x x x x x
	TAS_HP	x x x
Electrical alarm switch	EAS_HQ	x x x
Electrical alarm switch	EAS_HQ_el	x
Auxiliary release	Туре	
Shunt trip flexible	STF	x x x
Observation to the	STL	х
Shunt trip left	STL (EI)	х
Undervoltage release	UVR	x x
Universal release	UNI	x x x
ETU/communication	Туре	
Breaker data server communication module	COM060	x x
24 V module		x
Other		
Cylinder lock (type Ronis)		x x
		1204 4004

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Internal accessories Optional equipment		3VA23/24 3-pole	3VA23/24 4-pole
	Slot No.:	630 A 25 24 23 22 21 11 12 13 14 15	35 34 33 32 31 25 24 23 22 21 11 12 13 14 15
Auxiliary switch	Туре		
Auxiliary switch	AUX_HQ_el AUX_HP	x x x x x x x x x x x x x x x x x x x	
Leading changeover switch	LCS_HQ LCS_HQ_el LCS_HP	x x	x x x
Alarm switch	Туре		
Trip alarm switch	TAS_HQ TAS_HQ_el TAS_HP		
Electrical alarm switch	EAS_HQ EAS_HQ_el	x	x
Auxiliary release	Туре		
Shunt trip flexible	STF	x x	× ×
Shunt trip left	STL (EI)	X X	x x
Undervoltage release	UVR	x	x
Universal release	UNI	x	x
ETU/communication	Туре		
Breaker data server communication module	COM060	×	x
24 V module		X X	x
Other			
Cylinder lock (type Ronis)		X	X 1201_18812

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Internal accessories Optional equipment			3VA25 3-pole	3VA25 4-pole
	Slot No.:	24 23 22 21	1000 A 11 12 13 14 15 16	1000 A 24 23 22 21 11 12 13 14 15 16
Auxiliary switch	Туре			
•	AUX_HQ	x x x x	x x x x	x x x x x
	AUX_HQ_el	x x x x	x x x x	x x x x x x
Auxiliary switch	AUX_HP	x x	x x	x x x x x
	LCS_HQ		x	x
Leading changeover switch	LCS_HQ_el		x	x
	LCS_HP		x	x
Alarm switch	Туре			
	TAS_HQ		x x	x x
Trip alarm switch	TAS_HQ_el		x x	x x
	TAS_HP		X	x
Electrical alarm switch	EAS_HQ		x	x
Electrical alarm switch	EAS_HQ_el		x	x
Auxiliary release	Туре			
Shunt trip flexible	STF	x		x
Observat today 1 off	STL	х		x
Shunt trip left	STL (EI)	×		х
Undervoltage release	UVR	х		x
Universal release	UNI	×		х
ETU/communication	Туре			
Breaker data server communication module	COM060		×	x x
Module 24 V			X	X

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Selection and ordering	ng data							
	Version		SD d	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Auxiliary switches an	nd alarm switches (changeover co	ntacts)		'				
	Auxiliary switch AUX							
	Type/switching capacity/size	Electronic-compatible						
3VA9988-0AA11 3VA9988-0AA12	HP/high switching capacity/2 slots HQ/compact size/1 slot HQ_el/compact size/1 slot			3VA9988-0AA11 3VA9988-0AA12 3VA9988-0AA13		1 1 1	1 unit 1 unit 1 unit	1CB 1CB 1CB
	Leading changeover switch LCS							
	Type/switching capacity/size HP/high switching capacity/2 slots HQ/compact size/1 slot HQ_el/compact size/1 slot	Electronic-compatible /		3VA9988-0AA21 3VA9988-0AA22 3VA9988-0AA23		1 1 1	1 unit 1 unit 1 unit	1CB 1CB 1CB
3VA9988-0AA21 3VA9988-0AA22								
3VA9988-0AB11 3VA9988-0AB12	Trip alarm switch TAS Type/switching capacity/size HP/high switching capacity/2 slots HQ/compact size/1 slot HQ_el/compact size/1 slot	Electronic-compatible		3VA9988-0AB11 3VA9988-0AB12 3VA9988-0AB13		1 1 1	1 unit 1 unit 1 unit	1CB 1CB 1CB
	Short circuit alarm switch SAS (3VA1							
	For molded case circuit breakers/ Article No. stem	Electronic-compatible						
	For 3VA10, 3VA11							
	HQ/compact size/1 slot HQ_el/compact size/1 slot	 ✓		3VA9988-0AB32 3VA9988-0AB33		1 1	1 unit 1 unit	1CB 1CB
	For 3VA12, 3VA13 and 3VA14			01/40000 04 704			atta	100
3VA9988-0AB32	HQ/compact size/1 slotHQ_el/compact size/1 slot	 ✓		3VA9988-0AB34 3VA9988-0AB35		1 1	1 unit 1 unit	1CB 1CB
	Electrical alarm switch EAS (3VA2 on	ly)						
3VA9988-0AB22	Type/switching capacity/size HQ/compact size/1 slot HQ_el/compact size/1 slot	Electronic-compatible /		3VA9988-0AB22 3VA9988-0AB23		1 1	1 unit 1 unit	1CB 1CB
1								

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version			SD d	Article No. www.siemens.com/ product?Article No.	Price per PU		PS	PG
Undervoltage releas	es				productivitudio (10)		021, 111)		
(C)Dure	Undervoltage release UVI	3							
9999	50/60 Hz V AC		V DC		3VA9908-0BB10		1	1 unit	1CB
alalala			24		3VA9908-0BB11		1	1 unit 1 unit	1CB
SIEMENS			48 60		3VA9908-0BB12 3VA9908-0BB13		1	1 unit 1 unit	1CB 1CB
			125 127		3VA9908-0BB14		1	1 unit	1CB
- Total and I would not be seen			220 230 250		3VA9908-0BB15 3VA9908-0BB16		1	1 unit 1 unit	1CB 1CB
3VA9908-0BB15	24				3VA9908-0BB20		1	1 unit	1CB
	48 60				3VA9908-0BB21 3VA9908-0BB22		1	1 unit 1 unit	1CB 1CB
	110				3VA9908-0BB23		1	1 unit	1CB
	120 127 208 230				3VA9908-0BB24 3VA9908-0BB25		1 1	1 unit 1 unit	1CB 1CB
	380 400 440 480				3VA9908-0BB26 3VA9908-0BB27		1 1	1 unit 1 unit	1CB 1CB
Shunt trip left	110 100				OTACOGO OBBET		· ·	1 dille	100
	Shunt trip left STL								
999	50/60 Hz V AC		V DC						.00
TTTT	24		12 24 30		3VA9988-0BL10 3VA9988-0BL30		1 1	1 unit 1 unit	1CB 1CB
SIEMENS	48 60		48 60		3VA9988-0BL31		1	1 unit	1CB
	110 127 208 277		110 127 220 250		3VA9988-0BL32 3VA9988-0BL33		1 1	1 unit 1 unit	1CB 1CB
Norman ca.	 380 600		12 		3VA9988-0BL10 3VA9988-0BL20		1 1	1 unit 1 unit	1CB 1CB
3VA9988-0BL33	Shunt trip left STL (EI)				01110000 02=0		·		.02
	50/60 Hz V AC		V DC						
Shunt trip flexible S	 TE		24		3VA9988-0BM10		1	1 unit	1CB
Shufft trip flexible 5	Shunt trip flexible						l		
FIET -	50/60 Hz V AC		V DC						
	24				3VA9988-0BA20		1	1 unit	1CB
SIEMENS	48 60 110 127				3VA9988-0BA21 3VA9988-0BA22		1	1 unit 1 unit	1CB 1CB
	208 277				3VA9988-0BA23		1	1 unit	1CB
幸!	380 500 600				3VA9988-0BA24 3VA9988-0BA25		1 1	1 unit 1 unit	1CB 1CB
Same one									
3VA9988-0BA23 Universal release UN	JI								
oniversal release of	Universal release								
9999	50/60 Hz V AC		V DC						
dalala			12 24		3VA9908-0BD11 3VA9908-0BD12		1 1	1 unit 1 unit	1CB 1CB
SIEMENS			48		3VA9908-0BD13		i i	1 unit	1CB
America (St.									
3VA9908-0BD13									
	or undervoltage releases								
	Time-delay device								
4444	V AC 110	V DC	Delay time		2VA0099 0PF04		4	1	10D
00000	230	110 230	Fixed Fixed		3VA9988-0BF21 3VA9988-0BF22		1	1 unit 1 unit	1CB 1CB
		24	Fixed		3VA9988-0BF23		1	1 unit	1CB
0000									
3VA9988-0BF22									

3VA Molded Case Circuit Breakers up to 1000 A - accessories, IEC

Manual operators

Overview

Manual operators are provided to facilitate manual operation of the 3VA molded case circuit breakers, either directly at the circuit breaker or through the door or side wall of the cubicle.

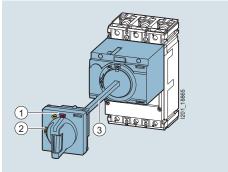
Front mounted rotary operator

The front mounted rotary operator is mounted directly on the molded case circuit breaker and is available with or without a door interlocking system. It meets the requirements for degree of protection IP30. The door interlock locks the cubicle door when the molded case circuit breaker is closed, but can be deliberately overridden if necessary.



Door mounted rotary operator

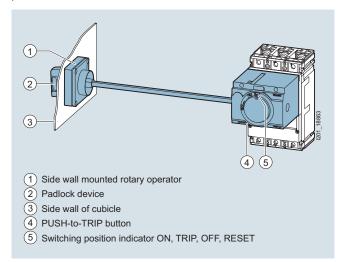
The door mounted rotary operator enables operation of the molded case circuit breaker from the cubicle door. The door element meets the requirements for degree of protection IP65 and features a door interlocking system and tolerance compensation. A variable depth adapter can be deployed to allow use of the door mounted rotary operator in conjunction with draw-out units. A supplementary handle can be attached directly to the shaft shoulder to allow convenient operation of the molded case circuit breaker when the cubicle door is open (i.e. when the control element is decoupled).



- 1 Door element
- 2 Switching position indicator ON, TRIP, OFF, RESET
- 3 Shaft

Side wall mounted rotary operator

The side wall mounted rotary operator is designed for installation in the cubicle side wall. It is available optionally with short shaft and mounting plate for mounting directly adjacent to the cubicle wall. The wall element meets the requirements for degree of protection IP65.



All manual operators as well as the supplementary handle for the door mounted rotary operator are also available in a version for use in EMERGENCY-OFF applications. These are colored a conspicuous yellow/red for easier identification.

Interlocking methods

All manual operators are designed to allow locking of the operator at the handle and at the rotary operator with up to three padlocks in each case. It is also possible to fit a cylinder lock which can be used either to lock or to interlock molded case circuit breakers depending on the application.

If the cylinder lock is applied as a lock, it can be used to prevent the molded case circuit breaker from closing. The key can be rmoved at any time. If the lock is used to create an interlock, the key can be removed only when it is in the OFF position, allowing the creation of an interlock by the use of a single key for several breakers.

Active illumination

The manual operators are also available in illuminated variants in which the handle is illuminated red, yellow or green via LEDs (24 V DC) depending on the position of the breaker. This means that the switching position of the molded case circuit breaker can be immediately identified, even when light conditions are poor. This option can also be retrofitted.

Benefits

- Convenient circuit breaker operation inside and outside the cubicle
- Locking, blocking and interlocking for all manual operators prevents unauthorized breaker operation
- Conspicuously colored variant for EMERGENCY-OFF circuits
- Illumination for clear indication of the breaker status even when light conditions are poor
- All manual operators meet the standards for isolating characteristics defined by IEC/EN 60947-1

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Manual operators

Selection and ordering data

Version	For molde Article No		circuit bre	eakers/			Price per PU	(UNIT,	PS	PG
	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA14	d	product?Article No.		SET, M)		

Front mounted rotary operators



Front mounted rotary operators

TMENT .	 Rotary operator Handle For IEC Degree of protection If For 3-pole and 4-pole 								
	Туре	Color							
	Standard,	Gray	/					3VA9157-0EK11	1 1 unit 1C
The state of	without illumination kit	,		/				3VA9257-0EK11	1 1 unit 1C
					1			3VA9267-0EK11	1 1 unit 1C
						1		3VA9467-0EK11	1 1 unit 1C
							/	3VA9687-0EK11	1 1 unit 1C
	Standard,	Gray	1					3VA9157-0EK13	1 1 unit 1C
	with illumination kit			1				3VA9257-0EK13	1 1 unit 1C
					1			3VA9267-0EK13	1 1 unit 1C
			-			1		3VA9467-0EK13	1 1 unit 1C
	• EMERGENCY-OFF,	Yellow-	1					3VA9157-0EK15	1 1 unit 1C
	without illumination kit	red		1				3VA9257-0EK15	1 1 unit 1C
					/			3VA9267-0EK15	1 1 unit 1C
						1		3VA9467-0EK15	1 1 unit 1C
							✓	3VA9687-0EK15	1 1 unit 1C
	• EMERGENCY-OFF,	Yellow-	1					3VA9157-0EK17	1 1 unit 1C
	with illumination kit	red		1				3VA9257-0EK17	1 1 unit 1C
					/			3VA9267-0EK17	1 1 unit 1C
						1		3VA9467-0EK17	1 1 unit 1C
	Standard,	Gray	1					3VA9157-0EK21	1 1 unit 1C
	with door interlock			/				3VA9257-0EK21	1 1 unit 1C
					1			3VA9267-0EK21	1 1 unit 1C
						1		3VA9467-0EK21	1 1 unit 1C
							NEW	3VA9687-0EK21	1 1 unit 1C
	Standard,	Gray	1					3VA9157-0EK23	1 1 unit 1C
	with door interlock,			1				3VA9257-0EK23	1 1 unit 1C
	with illumination kit		_		1			3VA9267-0EK23	1 1 unit 1C
						/		3VA9467-0EK23	1 1 unit 1C
	• EMERGENCY-OFF,	Yellow-	1					3VA9157-0EK25	1 1 unit 1C
	with door interlock	red		/				3VA9257-0EK25	1 1 unit 1C
					/			3VA9267-0EK25	1 1 unit 1C
						/		3VA9467-0EK25	1 1 unit 1C
							NEW	3VA9687-0EK25	1 1 unit 1C
	• EMERGENCY-OFF,	Yellow-	1					3VA9157-0EK27	1 1 unit 1C
	with door interlock,	red		1				3VA9257-0EK27	1 1 unit 1C
	with illumination kit				/			3VA9267-0EK27	1 1 unit 1C
						/		3VA9467-0EK27	1 1 unit 1C
	Without handle,	Gray	/			-		3VA9157-0GK00	1 1 unit 1C
1	with shaft stub,	,		1				3VA9257-0GK00	1 1 unit 1C
	without door interlock				/			3VA9267-0GK00	1 1 unit 1C
CMINE						/		3VA9467-0GK00	1 1 unit 1C
							✓ ¹⁾	3VA9687-0GK00	1 1 unit 1C



3VA9267-0GK00

¹⁾ This version already includes the adapter 8UD1900-4DA00.

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

										Iviaiiu	ai ope	aloi	9
	Version			ded case	circuit br	eakers/		SD	Article No.	Price	PU	PS	PG
				No. stem					www.siemens.com/ product?Article No.	per PU	(UNIT, SET,		
			3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA14 3VA23	3VA15 3VA25	d	product? Article No.		M)		
Door mounted rotary	operators					3VA24		u					
	Door mounted rotary	operator											
	Rotary operator Shaft 300 mm (325 mm for 1000 A) Mounting tolerance cc Handle with masking 75 75 mm Degree of protection For 3-pole and 4-pole	plate IP65	n										
	Туре	Color											
3VA9267-0FK21	Standard	Gray	✓						3VA9157-0FK21		1	1 unit	1CB
				1					3VA9257-0FK21		1	1 unit	1CB
					✓				3VA9267-0FK21		1	1 unit	1CB
						1			3VA9467-0FK21			1 unit	
							✓		3VA9687-0FK21			1 unit	
	 Standard, with illumination kit 	Gray	1						3VA9157-0FK23			1 unit	
	With marmination Rit			✓					3VA9257-0FK23			1 unit	
					✓				3VA9267-0FK23			1 unit	
	- EMEDOENOV OFF	V-II				✓			3VA9467-0FK23			1 unit	
	EMERGENCY-OFF	Yellow- red	✓						3VA9157-0FK25			1 unit	
				✓ 					3VA9257-0FK25			1 unit	
			-		√	 /			3VA9267-0FK25			1 unit	
							 /		3VA9467-0FK25 3VA9687-0FK25			1 unit	
	• EMERGENCY-OFF,	Yellow-	<i></i>						3VA9067-0FK25 3VA9157-0FK27			1 unit	
	with illumination kit	red		<i>✓</i>					3VA9157-0FK27 3VA9257-0FK27			1 unit	
									3VA9257-0FK27 3VA9267-0FK27			1 unit	
			_						3VA9467-0FK27			1 unit	
	Standard,	Gray							3VA9467-0FK27 3VA9157-0FK61			1 unit	
	without tolerance	Gray		<i>✓</i>					3VA9157-0FK61			1 unit	
	compensation				√				3VA9267-0FK61			1 unit	
	<u>NEW</u>		_			1			3VA9467-0FK61			1 unit	
							/		3VA9687-0FK61			1 unit	
IN	Supplementary handle	e for door i											
	For operation when cal			, . ,									
•	Туре	Color											
9	Standard	Gray	/	/					3VA9287-0GC01		1	1 unit	1CB
The state of the s					/				3VA9487-0GC01		1	1 unit	1CB
						/			3VA9487-0GC11			1 unit	
	• EMERGENCY-OFF	Yellow-	1	1					3VA9287-0GC05			1 unit	
3VA9487-0GC01		red			1				3VA9487-0GC05		1	1 unit	1CB
			-			1			3VA9487-0GC15		1	1 unit	1CB
	Shaft												
	Versions												-
	• 8 mm												
	- 300 mm long		✓	1	✓	✓			8UD1900-2WA00		1	1 unit	1CB
SHID4000 QW/D00	- 600 mm long		✓	1	✓	✓			8UD1900-2WB00		1	1 unit	1CB
8UD1900-2WB00	• 12 mm												
							,		811D1000 434400		4	1	1CD
	- 325 mm long - 600 mm long						1		8UD1900-4WA00 8UD1900-4WB00			1 unit	
	- 600 mm long						√		80D1900-4WB00		ı	i unit	ICB
8UD1900-4WB00													

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version	For molo		circuit br	eakers/		SD	Article No. Pri www.siemens.com/ per I		PS	PG
		3VA10 3VA11		3VA20 3VA21 3VA22		3VA15 3VA25	d	product?Article No.	SET, M)		
	Adapter for shaft										
	Versions										
8UD 1900-2DA00	8 mm x 8 mm With door mounted rotary operator and side wall mounted rotary operator	✓	1	<i>y</i>	1			8UD1900-2DA00	1	1 unit	1CB
60D 1900-2DA00	• 12 mm x 12 mm					/		8UD1900-4DA00	1	1 unit	1CB
8UD1900-4DA00	With door mounted rotary operator					•		0051300 4DA00		, dilit	100
000 1000 40/100	Door coupling										
	Versions										
	• 8 mm x 8 mm	1	1	1	1			8UD1900-2HA00	1	1 unit	1CB
8UD1900-2HA00	• 12 mm x 12 mm					1		8UD1900-4HA00	1	1 unit	1CL
8UD1900-4HA00											
	Mounting tolerance compensation	n									
	Versions										
8UD1900-2GA00	• 8 mm x 8 mm	1	√	√	V			8UD1900-2GA00	1	1 unit	1CB
002100020700	• 12 mm x 12 mm					1		8UD1900-4GA00	1	1 unit	1CL
8UD1900-4GA00											
00D 1000-4GA00	Fixing bracket for shaft	1	/					3VA9287-0GA80	1	1 unit	1CB
				√	1			3VA9487-0GA80		1 unit	
3VA9487-0GA80	Verdeble devale at the control of							01/40/07 000/0		a	100
3VA9487-0GB10	Variable depth adapter 8 8 mm							3VA9487-0GB10	1	1 unit	1CB

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version			lded case No. stem	circuit b	reakers/	SD	Article No. www.siemens.com/	Price per PU		PS	PG
			3VA10 3VA11	3VA12	3VA21	3VA13 3VA14 3VA23 3VA24	d	product?Article No.		SET, M)		
Side wall mounted	rotary operators Side wall mounted rotary Without mounting plate Rotary operator with sl Handle with masking p Degree of protection If For 3-pole and 4-pole	naft 300 mm blate 75 x 75 mn P65	n									
	Туре	Color										
	Standard	Gray	1					3VA9157-0PK11		1	1 unit	1CE
3VA9267-0PK11				✓				3VA9257-0PK11		1	1 unit	
					1			3VA9267-0PK11		1	1 unit	1CE
						1		3VA9467-0PK11		1	1 unit	
	 Standard, with illumination kit 	Gray	✓					3VA9157-0PK13		1	1 unit	
	WILLI IIIUITIIITALIOIT KIL			✓				3VA9257-0PK13		1	1 unit	
					1			3VA9267-0PK13		1	1 unit	
						✓		3VA9467-0PK13		1	1 unit	1CE
	EMERGENCY-OFF	Yellow-red	✓					3VA9157-0PK15		1	1 unit	1CE
				✓				3VA9257-0PK15		1	1 unit	1CE
					✓			3VA9267-0PK15		1	1 unit	1CE
						✓		3VA9467-0PK15		1	1 unit	1CE
	EMERGENCY-OFF, With illumination tile.	Yellow-red	✓					3VA9157-0PK17		1	1 unit	1CE
	with illumination kit			✓				3VA9257-0PK17		1	1 unit	1CE
					1			3VA9267-0PK17		1	1 unit	1CE
						1		3VA9467-0PK17		1	1 unit	1CE
	 With mounting plate Rotary operator with sl Handle with masking p Degree of protection IE For 3-pole and 4-pole Type	olate 75 x 75 mn P65	n									
All Inc.	Standard	Gray	/					3VA9157-0PK51		1	1 unit	1CE
16 AT	•			1				3VA9257-0PK51		1	1 unit	1CE
					1			3VA9267-0PK51		1	1 unit	1CE
	Standard,	Gray	1					3VA9157-0PK53		1	1 unit	1CE
	with illumination kit			✓				3VA9257-0PK53		1	1 unit	1CE
3VA9267-0PK51					1			3VA9267-0PK53		1	1 unit	1CE
	• EMERGENCY-OFF	Yellow-red	✓					3VA9157-0PK55		1	1 unit	1CE
				✓				3VA9257-0PK55		1	1 unit	1CE
					1			3VA9267-0PK55		1	1 unit	1CE
	• EMERGENCY-OFF,	Yellow-red	1					3VA9157-0PK57		1	1 unit	1CE
	with illumination kit			1				3VA9257-0PK57		1	1 unit	1CE
					1			3VA9267-0PK57		1	1 unit	1CE
	Extended DIN rail for N/F • For mounting plate • Up to 250 A	E terminal						3VA9987-0GL30		1	1 unit	1CE

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version			For mole Article N	ded case No. stem	circuit b	reakers/		SD	Article No. www.siemens.com/	Price per PU		PS	PG
				3VA10 3VA11	3VA12	3VA21	3VA13 3VA14 3VA23 3VA24		d	product?Article No.		SET, M)		
Handles														
	Handles • With maskin	g plate												
TON SIEMENS	Type	Color	Tolerance compen- sation											
5	 Standard 	Gray	Without	1	1	✓				8UD1721-0AB11		1	1 unit	1CB
			With	1	1	✓				8UD1721-0AB21		1	1 unit	1CE
			Without				1			8UD1731-0AB11		1	1 unit	1CB
			With				1			8UD1731-0AB21		1	1 unit	1CE
BUD1731-0AB11			Without					1		8UD1741-0AB11		1	1 unit	1CE
			With					1		8UD1741-0AB21		1	1 unit	_
	• EMERGEN-	Yellow-	Without	1	1	1				8UD1721-0AB15		1	1 unit	
	CY-OFF	red	With	1	1	1				8UD1721-0AB25		1	1 unit	1CE
			Without				1			8UD1731-0AB15		1	1 unit	1CE
			With				1			8UD1731-0AB25		1	1 unit	
			Without					1		8UD1741-0AB15		1	1 unit	1CB
			With					1		8UD1741-0AB25		1	1 unit	_
	Spare part: H	andle leve	er extension					1		3VA9987-0SC10		1	1 unit	1CB
7	Note						✓ <u>NEW</u>			3VA9487-0SC10		1	1 unit	1CB
		The handle lever extension is already included in the scope of supply of												

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version		SD	Article No.	Price	PU	PS	PG	
	VELSIOIT			30	www.siemens.com/		(UNIT,	13	ru
					product?Article No.		SET, M)		
				d					
General accessories	s for manual operators							10 '	
	Labeling plate for manual operators				3VA9087-0SX10		1	10 units	1CB
41									
3VA9087-0SX10	Illumination kit for manual operators	For molded case of	irouit brookers						
	24 V DC voltage	3VA1, 100 250 A			8UD1900-0KA10		1	1 unit	1CB
•			rotary operators						
		3VA2, 100 630 A	Front mounted rotary operators		8UD1900-0KA20		1	1 unit	1CB
\prec		3VA1, 3VA2,	Door mounted		8UD1900-0KA20		1	1 unit	1CB
8UD1900-0KA20		100 630 A	rotary operator and side wall						
60D 1900-0NA20			mounted rotary operator						
	Cylinder lock (type Kaba)		- 1						
TOT STEMAN	 For door mounted rotary operator and side wall mounted rotary operator 	Key 1			8UD1900-0MB01		1	1 unit	
	(in the masking plate) • Standard masking plate	Key 2			8UD1900-0NB01		1	1 unit	
	- otandard masking plate	Key 3 Key 4			8UD1900-0PB01 8UD1900-0QB01		1	1 unit	
							·		.02
8UD1900-0MB01									
OOD 1300 ONIBOT	Cylinder lock (type Kaba)								
HEMENS .	 For door mounted rotary operator and side wall mounted rotary operator 	Key 1			8UD1900-0MB05		1	1 unit	1CB
	(in the masking plate) • EMERGENCY-OFF masking plate	Key 2			8UD1900-0NB05		1	1 unit	
	• LIVILING INCT-OFF Masking place	Key 3 Key 4			8UD1900-0PB05 8UD1900-0QB05		1	1 unit	
		rtoy i			0021000 00200		·	1 dille	100
8UD1900-0MB05									
00D 1000 0MB00	Cylinder lock (type Ronis)								
	Includes a lock with 2 keysFor locking or interlocking								
	 For installation in all rotary operators For mounting in the adapter kit for the 	accessories compa	ertment						
0 1	- For mounting in the adapter kit for the	Key 1	artificint		3VA9980-0VL10		1	1 unit	1CB
2		Key 3			3VA9980-0VL30		1	1 unit	1CB
3VA9980-0VL10		Key 4			3VA9980-0VL40		1	1 unit	1CB
	Note The cylinder lock adapter for rotary ope	eratore is also neede	d for locking						
	or interlocking circuit breakers via rotary		a for focking						-
620	Cylinder lock adapter for rotary operators	For molded case ci	rcuit breakers						
	To mount the cylinder lock in the rotary operator	3VA1, 3VA2, 100			3VA9980-0LF20		1	1 unit	
3VA9980-0LF20	(also possible with door mounted rotary operator and side wall mounted rotary operator)	3VA1/3VA2, 1000 A	NEW		3VA9680-0LF20		1	1 unit	1CB
	mounted rotary operator)								

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Motor operators

Overview

MO310 side mounted motor operator

The MO310 side mounted motor operator is optimized for use in the area of electrical installation. It is mounted on the side of the 3VA1 molded case circuit breaker and, thanks to the cover size of 45 mm, is suitable for side-by-side arrangement with miniature circuit breakers.

The MO310 motor operator can also be locked with several padlocks.

MO320 front mounted motor operator

The MO320 motor operator is mounted on the front of the 3VA molded case circuit breaker and opens and closes the molded case circuit breaker by means of control cable commands (e.g. from pushbuttons or a PLC). It can also be operated manually, however, and a handle is provided on the unit for this purpose.

The motor operator also features a clear switching position indicator which indicates ON and OFF and, via LED, whether the circuit breaker has tripped (TRIP). The motor operator therefore meets the standards for isolating characteristics defined by IEC/EN 60947-1. It is thus possible to identify the switching position of the molded case circuit breaker at any time.

Two different reset modes can be selected, i.e. in one mode, the operator resets the molded case circuit breaker automatically and in the other, it waits for confirmation by an OFF signal before it resets the breaker.

Furthermore, the motor operator can be locked in the OFF position by means of several padlocks.





Benefits

- Remote operation of the molded case circuit breaker by means of control cable commands
- Clear switching position indication including TRIP provides a quick visual overview and prevents operating errors
- Locking capability prevents unauthorized operations
- Meets the standards for isolating characteristics defined by IEC/EN 60947-1
- All motor operators are suitable for use with 3 and 4-pole molded case circuit breakers.

Design

 The MO320 motor operator is simply snapped into position on a mounting frame which is installed instead of the accessories lid of the molded case circuit breaker.

Technical specifications

MO310 motor operator	3VA1
	160 A
Degree of protection	IP20, with cover frame IP30
Rated control supply voltage (operating range of control	42 V 60 V AC/ 24 V 60 V DC (0.85 1.26)
supply voltage)	110 V 230 V AC/ 110 V 250 V DC (0.85 1.1)
Rating	250 W, max. 500 W (60 ms)
Make time, typically	< 300 ms
Break time, typically	< 300 ms

MO320 motor operator	3VA1		3VA2				
	160 A	250 A	250 A	630 A			
Degree of protection	IP20, with	cover frame	P30				
Rated control supply voltage	24 V 60	V DC (0.85	1.26)				
(operating range of control supply voltage)	110 V 230 V AC/ 110 V 250 V DC (0.85 1.1)						
Rating	250 W, ma	x. 500 W (6	0 ms)				
Make time, typically	< 800 ms	< 800 ms	< 1000 ms	< 1700 ms			
Break time, typically	< 800 ms	< 800 ms	< 1000 ms	< 1400 ms			

Selection and ordering data

	Version	Article	ded case No. stem 3VA12	3VA20 3VA21	3VA13 3VA14 3VA23 3VA24		Article No. Pric www.siemens.com/ product?Article No.	e PU J (UNIT, SET, M)	PS	PG
Motor operators					OVIZT	u				
	Side mounted motor operator (MO3	10)								
	Versions									
	• 24 60 V DC 42 60 V AC	1					3VA9117-0HB10	1	1 unit	1CB
3VA9117-0HB10	• 110 230 V AC, 110 250 V DC	✓					3VA9117-0HB20	1	1 unit	1CB
07/0117 01B10	Motor operator without stored energy	av opera	tor (MO	320)						
	Versions	,, ,,		,						
	• 24 60 V DC	1					3VA9157-0HA10	1	1 unit	1CB
0			✓				3VA9257-0HA10	1	1 unit	1CB
				✓			3VA9267-0HA10	1	1 unit	1CB
					1		3VA9467-0HA10	1	1 unit	1CB
3VA9267-0HA10	• 110 230 V AC, 110 250 V DC	✓					3VA9157-0HA20	1	1 unit	1CB
	110 230 V DO		✓				3VA9257-0HA20	1	1 unit	1CB
				✓			3VA9267-0HA20	1	1 unit	
					✓		3VA9467-0HA20	1	1 unit	1CB

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Motor operators

Overview

Motor operator with stored energy operator (SEO520) NEW

The motor operator with stored energy operator (SEO520) supplements the portfolio of 3VA motor operators with a synchronizable remote operator with optional communication

The motor operator with stored energy operator has two spring assemblies that are used to switch the 3VA2 molded case circuit breaker on and off quickly. This new principle in the MCCB area ensures fast, reliable and easily controllable switching sequences, especially in load transfer switching

The spring assemblies can also be charged manually using a supplied tool to enable them to also be operated without supply voltage.

The SEO520 is equipped with an external voltage module in the control supply voltages 24 V DC, 42-60 V AC/DC and 110-230 V AC / 110-250 V DC that can be plugged in and out quickly, thus ensuring quick access to the main terminals of the 3VA molded case circuit breaker.

In addition to the front-accessible MO320 motor operator, another reset mode is also available. Further to automatic reset and reset via an OFF signal, the SEO520 has the option of being able to be reset after confirmation by an acknowledge signal.

On account of the fast switching times, the SEO520 cannot be used with a leading changeover switch LCS.

Communication option

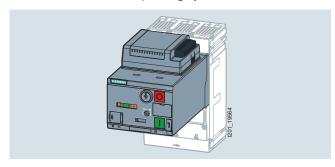
The SEO520 is also optionally available with communication functionality. A connection with the COM060 communication module integrates it into the communication environment of the 3VA molded case circuit breakers and ensures that the molded case circuit breaker can also be switched via the supported communication networks and the powerconfig and powermanager software packages.

Additional functions

Furthermore, the motor operator with stored energy operator can be locked in the OFF position by up to three padlocks. An optionally mountable cylinder lock (type Ronis) can be used to interlock the operating mode (manual/automatic).

The motor operator with stored energy operator features a clear indication of the breaker status which can mechanically indicate ON and OFF and, via LED, whether the circuit breaker has tripped (TRIP). The SEO520 therefore meets the standards for isolating characteristics defined by IEC/EN 60947-1.

A mechanical operating cycles counter can be optionally mounted that counts the operating cycles of the SEO520.



Benefits

- · Synchronization capability with fast switching on and off by means of two spring assemblies
- Remote operation of the molded case circuit breaker by means of control cable commands or communication
- Locking capability prevents unauthorized operations
- Meets the standards for isolating characteristics defined by IEC/EN 60947-1

Technical specifications

SEO520 motor operator	3VA2
	100/160/250 A
Degree of protection	IP20, with cover frame IP30
Rated control supply voltage (operating range of control supply voltage)	24 V DC (0.85 1.26) 42 V 60 V AC/ 42 V 60 V DC (0.85 1.26) 110 V 230 V AC/
	110 V 250 V DC (0.85 1.1)
Rating	300, max. 500 (60 ms)
Make time	< 80 ms
Break time	< 80 ms

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Motor operators

Selection and ordering	g data							
	Version for molded case circuit bre 3VA2 100 A, 160 A, 250 A	eakers/frame size	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
Motor operators NEW	,,					101)		
	Motor operator with stored energ	gy operator (SEO520)						
minimum -	Versions							
- W	Without a communication link	• 24 V DC		3VA9267-0HC10		1	1 unit	1CB
III MANA		• 42 60 V AC/DC		3VA9267-0HC20		1	1 unit	1CB
1		• 110 230 V AC, 110 250 V DC		3VA9267-0HC30		1	1 unit	1CB
	With a communication link	• 24 V DC		3VA9267-0HC15		1	1 unit	1CB
3VA9267-0HC10 3VA9267-0HC30		• 110 230 V AC, 110 250 V DC		3VA9267-0HC35		1	1 unit	1CB
3VA9987-0HX10	Mechanical operating cycles counter For installation in the SEO520			3VA9987-0HX10		1	1 unit	1CB
	Cylinder lock adapter for SEO520)		3VA9980-0LF30		1	1 unit	1CB
OLAGODO OLEGO	For installing cylinder locks in the SEO520							
3VA9980-0LF30	Cylinder lock (type Ronis)							
	Includes a lock with 2 keys For locking the operating mode (manual/auto/lock)	Key 1 Key 3 Key 4		3VA9980-0VL10 3VA9980-0VL30 3VA9980-0VL40		1 1 1	1 unit 1 unit 1 unit	1CB 1CB
3VA9980-0VL10		Toy 4		0 1A3300-0 1 E40		'	runit	100

3VA Molded Case Circuit Breakers up to 1000 A - accessories, IEC

Connection technology

Overview

The proper functioning and in particular the safety of electrical installations does not just depend on the quality and design of the components, but also on the method of installation.

The following aspects of electrical installations are of crucial importance for the implementation of a safe, properly functioning connection to the 3VA molded case circuit breakers:

- Installation, e.g. connection to cables or busbars
- Dimensioning of the cables and busbars
- Installation medium, e.g. rigid or flexible

The following catalog pages provide all the information needed to ensure that a 3VA molded case circuit breaker is safely connected.

Connection technology for the 3VA molded case circuit breaker

The connection technology of the 3VA molded case circuit breakers is designed to support uncomplicated and convenient commissioning of the 3VA molded case circuit breakers and to meet all installation requirements.

To meet this objective, an extensive portfolio of connection components is available.



3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Connection technology

3VA1 conductor cross-sections

fire connector, large fire connector or 2 cables fire connector for 6 cables fire connector for cables	Cable medium	Cables and busbars	Dimen- sions	3VA1			
				3VA10 / 3VA11	3VA12	3VA13 / 3VA14	3VA15
Box terminal	Solid cable	Cu cable	mm ²	1 x 1.5 16	1 x 6 16		
	Stranded cable	Cu cable	mm ²	1 x 1.5 70	1 x (6 120), 1 x (50 185)	1 x 35 300 ¹⁾	
AL ST	Finely stranded cable	Cu cable	mm ²	1 x 1.5 50	1 x (10 95), 1 x (95 150)	1 x 25 240 ¹⁾	
	Finely stranded with insulated end sleeve	Cu cable	mm ²	1 x 1.5 50	1 x (6 95), 1 x (50 150)	1 x 25 240 ¹⁾	
	Flexible copper busbar	Flexible busbar	mm x mm	1 x 2x6x [13 x 0.5] 1 x 2x9x [9 x 0.8]	1 x 2x6x [13 x 0.5] 1 x 2x6x [15.5 x 0.8] 1 x 2x6x [20 x 1]		
Vire connectors	Solid cable	Cu/Al cable	mm ²	1st terminal: 1 x 1.5/4 10;			
A S				2nd terminal: 1 x 10 16			
010	Stranded cable	Cu/Al cable	mm ²	1st terminal: 1 x 1.5/4 10;	1 x 35 185	1 x 50 300 ¹⁾	
				2nd terminal: 1 x 10 95			
	Finely stranded cable	Cu cable	mm ²	1st terminal: 1 x 1.5/4 10;	1 x 35 150	1 x 50 240 ¹⁾	
				2nd terminal: 1 x 10 35			
	Finely stranded with insulated end sleeve	Cu cable	mm ²	1st terminal: 1 x 1.5/4 10;	1 x 35 150	1 x 50 240 ¹⁾	
				2nd terminal: 1 x 10 35			
ire connector, large	Solid cable						
	Stranded cable	Cu/Al cable	mm ²	1 x 25 150	1 x 50 240		
	Finely stranded cable	Cu cable	mm ²	1 x 25 120	1 x 50 185		
	Finely stranded with insulated end sleeve	Cu cable	mm ²	1 x 25 95	1 x 50 185		
ire connector	Solid cable						
	Stranded cable	Cu/Al cable	mm ²		2 x 25 150	2 x 70 300	2 x 120 ;
0 0 0	Finely stranded cable	Cu cable	mm ²		2 x 25 150	2 x 70 240	2 x 185
	Finely stranded with insulated end sleeve	Cu cable	mm ²		2 x 25 70	2 x 70 185	2 x 120
	Solid cable	Cu/Al	mm ²	6 x 1.5/4 16	6 x 1.5/4 16	6 x 1.5/4 16	
onnector for 6 cables	Stranded cable	cable Cu/Al	mm ²	6 x 1.5/4 35	6 x 1.5/4 35	6 x 1.5/4 35	
श्र कर्न		cable					
2761 2761	Finely stranded cable Finely stranded with insulated end sleeve	Cu cable	mm ²	6 x 1.5 25 6 x 1.5 25	6 x 1.5 25 6 x 1.5 25	6 x 1.5 25 6 x 1.5 25	
566							
/ire connector for	Solid cable			-			
	Stranded cable	Cu/Al cable	mm ²				3x 12018
តិចិត្តា	Finely stranded cable	Cu cable	mm ²				
TOOPEN.	Finely stranded with insulated end sleeve	Cu cable	mm ²				3x 120
ont busbar connector	Direct (width x height)	Busbar	mm x mm	17 x 6.5	25 x 8	35 x 10	50 x 28
22	Front bus connectors extended	Busbar	mm x mm		32 x 10	40 x 12.5	50 x 28
	Front bus connectors	Busbar	mm x mm	00 0	35 x 10	60 x 12.5	

¹⁾ Only approved up to rated current 400 A

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Connection technology

3VA2 conductor cross-sections

Connection technology	Cable medium	Cables and busbars	Dimen- sions	3VA2			
				3VA20 / 3VA21 / 3VA22	3VA23 / 3VA24	3VA25	
lox terminal	Solid cable	Cu cable	mm ²	1 x 6 16			
	Stranded cable	Cu cable	mm ²	1 x (6 120), 1 x (25 185)	1 x 35 300 ¹⁾		
	Finely stranded cable	Cu cable	mm ²	1 x (10 95), 1 x (35 150)	1 x 25 240 ¹⁾		
	Finely stranded with insulated end sleeve	Cu cable	mm ²	1 x (6 95), 1 x (25 150)	1 x 25 240 ¹⁾		
	Flexible copper busbar	Flexible busbar	mm x mm	1 x 2x6x [13 x 0.5] 1 x 2x6x [15.5 x 0.8] 1 x 2x6x [20 x 1]	1 x 2x10x [20 x 1] 1 x 2x10x [24 x 1]		
Vire connectors	Solid cable	Cu/Al cable	mm ²	1 x 1.5/4 16			
7 7	Stranded cable	Cu/Al cable	mm ²	1 x 1.5/4 50 1 x 16 185	1 x 50 300 ¹⁾		
01/0	Finely stranded cable	Cu cable	mm ²	1 x (1.5 35), 1 x (25 150)	1 x 50 240 ¹⁾		
	Finely stranded with insulated end sleeve	Cu cable	mm ²	1 x (1.5 35), 1 x (16 120)	1 x 50 240 ¹⁾		
Vire connector, large	Solid cable						
	Stranded cable	Cu/Al cable	mm ²	1 x 50 240			
200	Finely stranded cable	Cu cable	mm ²	1 x 50 185			
	Finely stranded with insulated end sleeve	Cu cable	mm ²	1 x 50 185			
Vire connector for 2 cables	Solid cable						
äas	Stranded cable	Cu/Al cable	mm ²	2 x 25 150	2 x 70 300	2 x 120 300	
	Finely stranded cable	Cu cable	mm ²	2 x 25 150	2 x 70 240	2 x 185	
	Finely stranded with insulated end sleeve	Cu cable	mm ²	2 x 25 70	2 x 70 185	2 x 120 185	
distribution wire connector or 6 cables	Solid cable	Cu/Al cable	mm ²	6 x 1.5/4 16	6 x 1.5/4 16		
	Stranded cable	Cu/Al cable	mm ²	6 x 1.5/4 35	6 x 1.5/4 35		
97'91 97'91 97'91	Finely stranded cable	Cu cable	mm ²	6 x 1.5 25	6 x 1.5 25		
5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Finely stranded with insulated end sleeve	Cu cable	mm ²	6 x 1.5 25	6 x 1.5 25		
Vire connector for 3 cables	Solid cable	Cu/Al cable	mm ²				
	Stranded cable	Cu/Al cable	mm ²			3 x 120 185	
के कि क							
តាតាតា	Finely stranded cable	Cu cable	mm ²				
ina Tanan	Finely stranded cable Finely stranded with insulated end sleeve		mm ²			3 x 120	
Front busbar connector	Finely stranded with	Cu cable					
Front busbar connector	Finely stranded with insulated end sleeve	Cu cable Cu cable	mm ²			3 x 120	

¹⁾ Only approved up to rated current 400 A

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

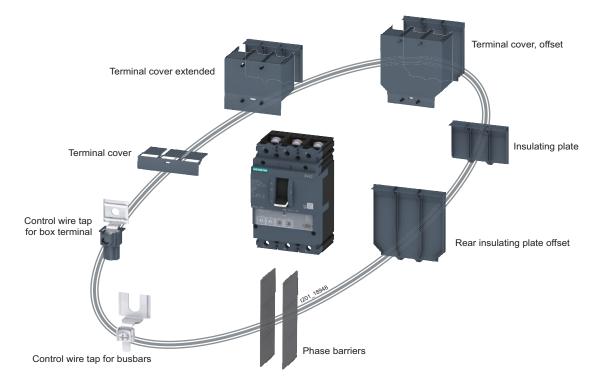
Connection technology

Further connection accessories

Insulation/auxiliary conductor connections

The connection accessories portfolio includes an extensive selection of insulating components (phase barriers, terminal

covers, etc.). Auxiliary conductor connections for box terminals and busbars are also available.



Terminal covers

Terminal covers are insulating and sealable insulation accessories which protect against accidental contact with main current paths. When mounted on the circuit breaker, terminal covers at the front provide degree of protection IP4x and when correctly installed at the infeed and load ends of the breaker, degree of protection IP2x. All terminal covers have a recess on the inside face which can be drilled out if necessary so that safe isolation can be afforded by commercially available voltage detectors.

- Short terminal covers are normally installed for all types of front termination which do not exceed the geometric dimensions of the molded case circuit breaker (the termination area) (e.g. box terminal, nut keeper kit, etc.).
- Extended terminal covers are required when bar extensions or external terminals (i.e. terminals which exceed the dimensions of the termination area of the molded case circuit breaker) are installed. The extended terminal cover consists of two parts, an insulating plate and the top half of the terminal cover.
 Both parts are attached by screws and thus afford the degrees of protection specified above.
- Offset terminal covers are required when front bus connectors
 offset are installed. The extended terminal cover consists
 of two parts, a rear insulating plate offset and the top half of
 the terminal cover. Both parts are attached by screws and thus
 afford the degrees of protection specified above.

Insulating plates

The purpose of insulating plates is to insulate the main terminals of the molded case circuit breaker from the mounting plate (cubicle).

- Insulating plate: in combination with bus connector extended, for example
- Rear insulating plate offset: in combination with front bus connectors offset, for example

Control wire taps

All wire connectors can be ordered with or without control wire tap (see page 2/14, Front terminals). The following accessories are available to allow the implementation of a control wire tap in combination with a box terminal or busbar connection:

- Control wire tap for box terminal: This terminal is fastened by screws in the box terminal with the cable.
- Control wire tap for busbars: This terminal is attached by screws directly to the busbar.

All control wire taps are rated for a maximum load of 15 A. Cables of up to 2.5 mm² can be connected.

Benefits

- High degree of flexibility
- Cables and busbars can be connected quickly and easily to the 3VA molded case circuit breaker
- Extensive selection of connection accessories

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Connection technology – suitable for all installation types (fixed-mounted, plug-in and draw-out versions)

Selection and ordering data

	Version	Minimum for stranded cable	Maximum for stranded cable		olded ca No. stei		uit break	kers/	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA21	3VA13 3VA14 3VA23 3VA24		d					
Box terminals suitable (fixed-mounted, plug-														
4-	Box terminal	1.5 mm ²	70 mm ²	1						3VA9153-0JA11		1	1 unit	1CE
	Connection of	6 mm ²	120 mm ²		/					3VA9253-0JA11		1	1 unit	1CI
	Cu cable • Included in scope	50 mm ²	185 mm ²		/					3VA9253-0JA12		1	1 unit	1CI
Oct Of the State o	of supply:	6 mm ²	120 mm ²			✓				3VA9163-0JA12		1	1 unit	1CI
3VA9163-0JA12	3 single terminals	25 mm ²	185 mm ²			✓				3VA9263-0JA12		1 .	1 unit	1CI
		35 mm ²	300 mm ²				√ 1)			3VA9483-0JA13		1	1 unit	1C
	Box terminal	1.5 mm ²	70 mm ²	✓						3VA9154-0JA11		1	1 unit	1CE
	 Connection of Cu cable 	6 mm ²	120 mm ²		1					3VA9254-0JA11		1	1 unit	1CE
	Included in scope	50 mm ²	185 mm ²		✓					3VA9254-0JA12		1	1 unit	1CI
3VA9164-0JA12	of supply:	6 mm ²	120 mm ²			✓				3VA9164-0JA12		1 .	1 unit	1CE
	4 single terminals	25 mm ²	185 mm ²			✓				3VA9264-0JA12		1	1 unit	1CE
		35 mm ²	300 mm ²				√ ¹⁾			3VA9484-0JA13		1	1 unit	1C
Wire connectors suita (fixed-mounted, plug														
555	Wire connector Connection of	1.5 mm ²	10 mm ²	✓ NEW						3VA9113-0JB10		1	1 unit	1C
A A A	Cu/Al cable • Included in scope	10 mm ²	95 mm ²	✓						3VA9113-0JB11		1	1 unit	1CE
AL (0) (0)	of supply:	35 mm ²	185 mm ²		✓					3VA9253-0JB12		1 .	1 unit	1CI
3VA9103-0JB11	3 single terminals	1.5 mm ²	50 mm ²			✓				3VA9103-0JB11		1 .	1 unit	1CE
		16 mm ²	185 mm ²			✓				3VA9263-0JB12		1 .	1 unit	1CI
		50 mm ²	300 mm ²				√ ²⁾			3VA9383-0JB13		1	1 unit	1CE
3VA9503-0JB23	Wire connector, 2 cables Connection of Cu/Al cable Included in scope of supply: 3 single terminals and 1 terminal cover, short	120 mm²	300 mm²					•		3VA9503-0JB23		1	1 unit	1CE
	Wire connector, 3 cables • Connection of Cu/Al cable • Included in scope of	120 mm ²	185 mm ²					NEW		3VA9503-0JB32		1	1 unit	1CE
जगन्त हो। चित्र हो।	supply: 3 single terminals and 1 terminal cover, short													
3VA9503-0JB32														
2222	Wire connector • Connection of	1.5 mm ²	10 mm ²	/ NEW						3VA9114-0JB10		1	1 unit	1CE
01 8 8 8	Cu/Al cable • Included in scope	10 mm ²	95 mm ²	/						3VA9114-0JB11		1	1 unit	1C
R\/ΔQ10/L0 IR11	of supply:	35 mm ²	185 mm ²		/					3VA9254-0JB12		1 :	1 unit	1CI
3VA9104-0JB11	4 single terminals	1.5 mm ²	50 mm ²			✓				3VA9104-0JB11		1 :	1 unit	1C
		16 mm ²	185 mm ²			/				3VA9264-0JB12		1	1 unit	1C
		50 mm ²	300 mm ²				√ ²⁾			3VA9384-0JB13		1	1 unit	1C

¹⁾ Only approved up to rated current 400 A

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

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version	Minimum for stranded cable	Maximum for stranded cable				uit break	ers/	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	SET,	PS	PG
				3VA10 3VA11	3VA12	3VA21	3VA13 3VA14 3VA23 3VA24		d			M)		
	Wire connector, 2 cables • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals and 1 terminal cover,	120 mm ²	300 mm ²					✓		3VA9504-0JB23		1	1 unit	1CB
3VA9504-0JB23	short													
51515151	Wire connector, 3 cables • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals and 1 terminal cover, short	120 mm ²	185 mm ²					NEW		3VA9504-0JB32		1	1 unit	1CB
	SHOIL													
3VA9504-0JB32														
555	Wire connector with control wire tap	1.5 mm ²	10 mm ²	/ NEW						3VA9113-0JG10		1	1 unit	1CB
3 图画	 Connection of Cu/Al cable 	10 mm ²	95 mm ²	✓						3VA9113-0JG11		1	1 unit	1CB
	 Included in scope 	35 mm ²	185 mm ²		✓					3VA9253-0JG12			1 unit	
3VA9103-0JG11	of supply: 3 single terminals	1.5 mm ²	50 mm ²			✓				3VA9103-0JG11			1 unit	
	o omigio terrimidio	16 mm ²	185 mm ²			✓				3VA9263-0JG12			1 unit	
		50 mm ²	300 mm ²				✓ ¹⁾			3VA9383-0JG13			1 unit	
3VA9503-0JG23	Wire connector, 2 cables, with control wire tap • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals and 1 terminal cover, short	120 mm²	300 mm²					•		3VA9503-0JG23		1	1 unit	1CB
	Wire connector, 3 cables, with control wire tap • Connection of Cu/Al cable	120 mm ²	185 mm ²					NEW		3VA9503-0JG32		1	1 unit	1CB
जग्द्रा देश 	 Included in scope of supply: 3 single terminals and 1 terminal cover, short 													
3VA9503-0JG32														
	Wire connector with control wire tap • Connection of		10 mm ²	NEW						3VA9114-0JG10			1 unit	
0 0 0	Cu/Al cable	10 mm ²	95 mm ²	✓						3VA9114-0JG11			1 unit	
3VA9104-0JG11	 Included in scope of supply: 		185 mm ²		✓					3VA9254-0JG12			1 unit	
	4 single terminals	1.5 mm ²	50 mm ²			/				3VA9104-0JG11			1 unit	
		16 mm ²	185 mm ²			/	 ✓¹)			3VA9264-0JG12 3VA9384-0JG13			1 unit	
1) Mayimum aurrent a		30 IIIIIF	00011111				<i>y</i> ′			3 VA9304-0JG 13		- 1	1 unit	IUD

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

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version	Minimum for stranded cable	Maximum for stranded cable				uit break	cers/	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA21	3VA13 3VA14 3VA23 3VA24		d					
3VA9504-0JG23	Wire connector, 2 cables, with control wire tap • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals and 1 terminal cover, short	120 mm²	300 mm ²					y		3VA9504-0JG23		1	1 unit	1CB
3VA9504-0JG32	Wire connector, 3 cables, with control wire tap • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals and 1 terminal cover, short	120 mm ²	185 mm ²		-			NEW		3VA9504-0JG32		1	1 unit	1CB

	Version	Max. tap width	Max. tap thickness				iit break	ers/	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	, SET,	PS	PG
				3VA10 3VA11	3VA12	3VA21	3VA13 3VA14 3VA23 3VA24		d			M)		
	ble for all installation t in and draw-out versi													
	Nut keeper kit	17 mm	6.5 mm	1						3VA9113-0QA00		1	1 unit	1CB
	Included in scope of supply:	25 mm	8 mm		/					3VA9213-0QA00		1	1 unit	1CB
	3 single terminals	25 mm	8 mm			/				3VA9203-0QA00		1	1 unit	1CB
3VA9203-0QA00		35 mm	10 mm				✓			3VA9403-0QA00		1	1 unit	1CB
3VA9603-0QA00	Nut keeper kit Included in scope of supply: • Nut keeper kit for 3-pole breakers • 1 terminal cover	50 mm	28 mm					✓		3VA9603-0QA00		1	1 unit	1CB
A clip on	Nut keeper kit	17 mm	6.5 mm	✓						3VA9114-0QA00		1	1 unit	1CB
0 0 6 6	Included in scope of supply:	25 mm	8 mm		✓					3VA9214-0QA00		1	1 unit	1CB
3VA9204-0QA00	4 single terminals	25 mm	8 mm			✓				3VA9204-0QA00			1 unit	
3VA92U4-UQAUU		35 mm	10 mm				✓			3VA9404-0QA00			1 unit	
	Nut keeper kit Included in scope of supply: • Nut keeper kit for 4-pole breakers • 1 terminal cover	50 mm	28 mm					✓		3VA9604-0QA00		1	1 unit	1CB

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version	Max. tap width	Max. tap thickness				uit break	ers/	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12		3VA13 3VA14 3VA23 3VA24	3VA25	d			IVI)		
	nded suitable for all in in and draw-out version		types											
4 4	Front bus connectors	22 mm	8 mm	✓						3VA9153-0QB00		1	1 unit	1CB
	extended Included in scope	32 mm	10 mm		✓					3VA9253-0QB00		1	1 unit	1CB
	of supply:	32 mm	10 mm			✓				3VA9263-0QB00		1	1 unit	1CB
	3 single terminals2 phase barriers	40 mm	12.5 mm				✓			3VA9483-0QB00		1	1 unit	1CB
3VA9263-0QB00			00											100
, , ,	Front bus connectors extended included in scope of supply: • 3 single terminals • 2 phase barriers	50 mm	28 mm					√		3VA9603-0QB00		1	1 unit	1CB
3VA9603-0QB00														
444	Front bus connectors extended	22 mm	8 mm	✓						3VA9154-0QB00			1 unit	
	Included in scope	32 mm	10 mm		✓					3VA9254-0QB00			1 unit	
	of supply:	32 mm	10 mm			✓				3VA9264-0QB00			1 unit	
3VA9264-0QB00	4 single terminals3 phase barriers	40 mm	12.5 mm				✓			3VA9484-0QB00		1	1 unit	1CB
3VA9604-0QB00	Front bus connectors extended Included in scope of supply: • 4 single terminals • 3 phase barriers	50 mm	28 mm					√		3VA9604-0QB00		1	1 unit	1CB
4 4	Front bus connectors	30 mm	8 mm	/						3VA9153-0QC00		1	1 unit	1CB
	offset Included in scope	35 mm	10 mm		✓					3VA9253-0QC00		1	1 unit	1CB
	of supply:	35 mm	10 mm			✓				3VA9263-0QC00			1 unit	
3VA9263-0QC00	• 3 single terminals • 2 phase barriers Distance between pole centers: 100/160 A = 35 mm 250 A = 45 mm 400/630 A = 70 mm	60 mm	12.5 mm				✓			3VA9483-0QC00		1	1 unit	1CB

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version	Max. tap width	Max. tap thickness			e circuit b	reakers/	SD	Article No. Price www.siemens.com/ per PU product?Article No.	PU (UNIT, SET, M)		PG
				3VA10 3VA11	3VA12	3VA21	3VA13 3VA14 3VA23 3VA24	d				
44	Front bus connectors offset		8 mm	/					3VA9153-0QC00		1 unit	
J J	Included in scope of	35 mm	10 mm		✓				3VA9253-0QC00		1 unit	
	supply: • 3 single terminals	35 mm	10 mm			✓			3VA9263-0QC00		1 unit	
3VA9263-0QC00	• 2 phase barriers Distance between pole centers: 100/160 A = 35 mm 250 A = 45 mm 400/630 A = 70 mm	60 mm	12.5 mm				√		3VA9483-0QC00	1	1 unit	1CB
44	Bus connectors edgewise	20 mm	6 mm	/					3VA9153-0QD00		1 unit	
	Included in scope of	25 mm	7 mm		/				3VA9253-0QD00		1 unit	
	supply:	25 mm	7 mm			/			3VA9263-0QD00		1 unit	
3VA9263-0QD00	3 single terminals2 phase barriers	40 mm	8 mm				✓		3VA9483-0QD00	1	1 unit	1CB
4 4 4	Bus connectors	20 mm	6 mm	1					3VA9154-0QD00	1	1 unit	1CB
444	edgewise Included in scope	25 mm	7 mm		/				3VA9254-0QD00	1	1 unit	1CB
	of supply:	25 mm	7 mm			1			3VA9264-0QD00	1	1 unit	1CB
3VA9264-0QD00	4 single terminals3 phase barriers	40 mm	8 mm				√		3VA9484-0QD00	1	1 unit	1CB
3VA9204-0QD00	Nut keeper kit	22 mm	8 mm	/					3VA9113-0QG00	1	1 unit	1CB
44	right-angled ¹⁾	32 mm	10 mm		/				3VA9213-0QG00		1 unit	
ĺĺĺ	Included in scope of supply:	32 mm	10 mm			/			3VA9223-0QG00	1	1 unit	1CB
	3 single terminals2 phase barriers	40 mm	12.5 mm				/		3VA9403-0QG00	1	1 unit	1CB
3VA9223-0QG00	Nut keener bit	22 mm	8 mm	/					3VA9114-0QG00	- 1	1 unit	100
444	Nut keeper kit right-angled ¹⁾	32 mm	10 mm						3VA9214-0QG00		1 unit	
	Included in scope of supply:	32 mm	10 mm			✓			3VA9224-0QG00		1 unit	
3VA9224-0QG00	4 single terminals 3 phase barriers	40 mm	12.5 mm				1		3VA9404-0QG00		1 unit	
0 VA3224-0QG00												

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

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version		ded case	circuit b	reakers/	SD	Article No. Price	PU	PS	PG
		Article	vo. stern				www.siemens.com/ per PU product?Article No.	SET,		
								M)		
			3VA12							
		3VA11		3VA21	3VA14 3VA23					
					3VA24	d				
	flat suitable for all installation types and draw-out versions)									
(lixed-illoulited, plug-il	Rear connection stud flat	/					3VA9113-0QE00	1 1	unit	1CB
	Included in scope of supply:		/				3VA9213-0QE00		unit	
	2 short connection studs flat1 long connection stud flat			/			3VA9203-0QE00		unit	
0 0	riong compositor oldernat				1		3VA9403-0QE00		unit	
3VA9203-0QE00										
	Rear connection stud flat	1					3VA9114-0QE00	1 1	unit	1CB
A Som	Included in scope of supply: • 2 short connection studs flat		1				3VA9214-0QE00	1 1	unit	1CB
	2 short connection study flat 2 long connection study flat			1			3VA9204-0QE00	1 1	unit	1CB
0 0					1		3VA9404-0QE00	1 1	unit	1CB
3VA9204-0QE00	Decree and the standard float	,					01/40444 00540			100
	Rear connection stud flat Included in scope of supply:	✓ 	 /				3VA9111-0QE10		unit	
	1 short connection stud flat			 ✓			3VA9211-0QE10 3VA9201-0QE10		unit	
					<i></i>		3VA9401-0QE10		unit	
					•		37A3401-0QL10	· '	unit	ТОВ
3VA9201-0QE10										
	Rear connection stud flat	1					3VA9111-0QE20	1 1	unit	1CB
	Included in scope of supply: • 1 long connection stud flat		1				3VA9211-0QE20	1 1	unit	1CB
	1 long connection stud hat			✓			3VA9201-0QE20	1 1	unit	1CB
					1		3VA9401-0QE20	1 1	unit	1CB
3VA9201-0QE20										
	round suitable for all installation plug-in and draw-out versions)									
types (fixed-filoufited,	Rear connection stud round	1					3VA9113-0QF00	1 1 1	unit	1CB
	Included in scope of supply:	•	/				3VA9213-0QF00		unit	
	1 long connection stud round2 short connection studs round			/			3VA9203-0QF00			1CB
0 0	- 2 short connection stade round				1		3VA9403-0QF00		unit	
3VA9203-0QF00	5	,					01/40444 00 500			100
a a	Rear connection stud round Included in scope of supply:	✓	 /				3VA9114-0QF00 3VA9214-0QF00		unit	
4343	 2 long connection studs round 			 ✓			3VA9204-0QF00		unit	
0 0 0	2 short connection studs round				√		3VA9404-0QF00		unit	
3VA9204-0QF00								' '	Gi III	.00
	Rear connection stud round	/					3VA9111-0QF10	1 1	unit	1CB
	Included in scope of supply:		/				3VA9211-0QF10		unit	
	1 short connection stud round			/			3VA9201-0QF10		unit	
					/		3VA9401-0QF10	1 1	unit	1CB
3VA9201-0QF10										
	Rear connection stud round	✓					3VA9111-0QF20		unit	
	Included in scope of supply: • 1 long connection stud round		✓				3VA9211-0QF20		unit	
				✓			3VA9201-0QF20		unit	
					✓		3VA9401-0QF20	11	unit	1CB
0)/40444_00500										
3VA9111-0QF20										

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Connection technology – specially for fixed mounting

	Version			molded o		uit break	kers/	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			3VA 3VA	.10 3VA1	3VA2	3VA13 3VA14 3VA23 3VA24	3VA25	d					
	rriers suitable for all installa unted, plug-in and draw-ou												
4 4	Phase barriers		✓						3VA9152-0WA00		1	1 unit	1CB
	Included in scope of a phase barriers	ot supply:		1					3VA9252-0WA00		1	1 unit	1CB
	2 priase partiers				/				3VA9262-0WA00		1	1 unit	1CB
						✓			3VA9482-0WA00		1	1 unit	1CB
							✓		3VA9602-0WA00		1	1 unit	1CB
3VA9262-0V	NA00												
	Version		Max. tap thickness			circuit k	oreakers/	SD	Article No. www.siemens.com/ product?Article No.	Price per PU		PS	PG
				3VA10 3VA11	3VA12	3VA21	3VA13 3VA14 3VA23 3VA24	d			,		
Bus conn	ectors extended specially for Front bus connectors	or fixed mou		J					3VA9151-0QB00		1	1 unit	1CB
	extended Included in scope of supp • 1 busbar connection pie	ly:	CHILI	•					01/2101-04000			7 Grift	100

3VA9151-0QB00

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version	Minimum for stranded cable	Maximum for stranded cable				reakers/	SD	Article No. Price www.siemens.com/ product?Article No.	(UNIT, SET,
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22		d		M)
Wire connecto	rs specially for fixed mo	unting								
3VA9112-0JJ12	Wire connector, large Connection of Cu/Al cable Included in scope of supply: 2 single terminals 1 terminal cover extended 1 insulating plate	25 mm ²	150 mm ²	✓					3VA9112-0JJ12	1 1 unit 1CB
	Wire connector, large	25 mm ²	150 mm ²	1					3VA9113-0JJ12	1 1 unit 1CB
	Connection of Cu/Al cable Included in seeps of	50 mm ²	240 mm ²		1				3VA9213-0JJ13	1 1 unit 1CB
3VA9113-0JJ12	 Included in scope of supply: 3 single terminals 1 terminal cover extended 1 insulating plate 	50 mm ²	240 mm ²			✓			3VA9223-0JJ13	1 1 unit 1CB
	Wire connector, large	25 mm ²	150 mm ²	1					3VA9114-0JJ12	1 1 unit 1CB
	 Connection of Cu/Al cable Included in scope of 	50 mm ²	240 mm ²		1				3VA9214-0JJ13	1 1 unit 1CB
3VA9114-0JJ12	supply: - 4 single terminals - 1 terminal cover extended - 1 insulating plate	50 mm ²	240 mm ²			√			3VA9224-0JJ13	1 1 unit 1CB
3VA9112-0JC12	Wire connector, large, with control wire tap • Connection of Cu/Al cable • Included in scope of supply: - 2 single terminals - 1 terminal cover extended - 1 insulating plate	25 mm ²	150 mm ²	✓					3VA9112-0JC12	1 1 unit 1CB
AND MINISTERS	Wire connector, large,	25 mm ²	150 mm ²	/					3VA9113-0JC12	1 1 unit 1CB
	with control wire tap	50 mm ²	240 mm ²		/				3VA9213-0JC13	1 1 unit 1CB
3VA9223-0JC13	Connection of Cu/Al cable Included in scope of supply: 3 single terminals 1 terminal cover extended 1 insulating plate	50 mm ²	240 mm ²			√			3VA9223-0JC13	1 1 unit 1CB
	Wire connector, large,	25 mm ²	150 mm ²	1					3VA9114-0JC12	1 1 unit 1CB
3VA9114-0JC12	with control wire tap • Connection of Cu/Al cable • Included in scope of supply: - 4 single terminals - 1 terminal cover extended - 1 insulating plate	50 mm ² 50 mm ²	240 mm ² 240 mm ²			 ✓			3VA9214-0JC13 3VA9224-0JC13	1 1 unit 1CB 1 1 unit 1CB

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version	Minimum for stranded cable	Maximum for stranded cable				reakers/	SD	Article No. Pric www.siemens.com/ product?Article No.	e PU U (UNIT SET M)		PG
				3VA11	3VA12	3VA20 3VA21 3VA22	3VA14 3VA23 3VA24	d				
Tankan kand	 Wire connector, 2 cables Connection of Cu/Al cable Included in second of 	2 x 25 mm ²	2 x 150 mm ²		✓				3VA9213-0JJ22		1 unit	
	 Included in scope of 		2 x 150 mm ²			1			3VA9223-0JJ22		1 unit	
3VA9223-0JJ22	supply: - 3 single terminals - 1 terminal cover extended - 1 insulating plate	2 x 70 mm ²	2 x 300 mm ²				/		3VA9403-0JJ23	1	1 unit	1CB
panyaanaan	Wire connector, 2 cables	2 x 25 mm ²	2 x 150 mm ²		/				3VA9214-0JJ22	1	1 unit	1CB
The state of the s	• Connection of Cu/Al cable	2 x 25 mm ²				1			3VA9224-0JJ22		1 unit	
	 Included in scope of sup- ply: 		2 x 300 mm ²				1		3VA9404-0JJ23		1 unit	
3 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	- 4 single terminals - 1 terminal cover extended - 1 insulating plate	2 x 7 0 11111	2 X 000 11111				·		0 m o 1 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		T GITTE	102
punipunipuni)	Wire connector, 2 cables,	2 x 25 mm ²	2 x 150 mm ²		1				3VA9213-0JC22	1	1 unit	1CB
	with control wire tapConnection of Cu/Al cable	2 x 25 mm ²	2 x 150 mm ²			1			3VA9223-0JC22	1	1 unit	1CB
	Included in scope of	2 x 70 mm ²	2 x 300 mm ²				1		3VA9403-0JC23	1	1 unit	1CB
3VA9223-0JC22	supply: - 3 single terminals - 1 terminal cover extended - 1 insulating plate											
and and makeus)	Wire connector, 2 cables,	2 x 25 mm ²	2 x 150 mm ²		1				3VA9214-0JC22	1	1 unit	1CB
	with control wire tapConnection of Cu/Al cable	2 x 25 mm ²	2 x 150 mm ²			✓			3VA9224-0JC22	1	1 unit	1CB
3VA9224-0JC22	Included in scope of supply: 4 single terminals 1 terminal cover extended 1 insulating plate	·	2 x 300 mm ²				✓		3VA9404-0JC23		1 unit	
3VA9112-0JF60	Distribution wire connector, 6 cables • Connection of Cu/Al cable • Included in scope of supply: - 2 single terminals - 1 terminal cover extended - 1 insulating plate	6 x 1.5 mm ²		✓					3VA9112-0JF60		1 unit	
pany may may	Distribution wire	6 x 1.5 mm ²	6 x 35 mm ²	✓					3VA9113-0JF60	1	1 unit	1CB
	connector, 6 cablesConnection of Cu/Al cable				✓				3VA9213-0JF60		1 unit	
	 Included in scope of 					✓			3VA9223-0JF60		1 unit	
3VA9223-0JF60	supply: - 3 single terminals - 1 terminal cover extended - 1 insulating plate						✓		3VA9303-0JF60	1	1 unit	1CB
hand and madeina	Distribution wire	6 x 1.5 mm ²	6 x 35 mm ²	1					3VA9114-0JF60	1	1 unit	1CB
· · · · · · · · · · · · · · · · · · ·	connector, 6 cablesConnection of Cu/Al cable				✓				3VA9214-0JF60	1	1 unit	1CB
	 Included in scope of 					✓			3VA9224-0JF60	1	1 unit	1CB
2 2 2	supply: - 4 single terminals - 1 terminal cover						1		3VA9304-0JF60	1	1 unit	1CB
3VA9224-0JF60	extended - 1 insulating plate											

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version		ded case No. stem		oreakers/	SD	Article No. Privoversiemens.com/product?Article No.	UNIT, SET,	PS	PG
		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d		M)		
Terminal covers speci								_		
3VA9111-0WD10	Terminal cover for 1-pole breakers	/					3VA9111-0WD10	1	1 unit	
3VA9111-0WD20	Terminal cover for 2-pole breakers	/					3VA9111-0WD20	1	1 unit	1CB
Milli man m	Terminal cover for 3-pole breakers	✓					3VA9111-0WD30	1	1 unit	1CB
			✓				3VA9211-0WD30	1	1 unit	1CB
				1			3VA9221-0WD30	1	1 unit	
3VA9221-0WD30					1		3VA9481-0WD30	1	1 unit	1CB
Mill prom	Terminal cover for 4-pole breakers	1					3VA9111-0WD40	1	1 unit	1CB
	·		/				3VA9211-0WD40	1	1 unit	
-				1			3VA9221-0WD40	1	1 unit	
3VA9221-0WD40					/		3VA9481-0WD40	1	1 unit	1CB
3VA9111-0WF20	Terminal cover extended, 2-pole Including insulating plate	>					3VA9111-0WF20	1	1 unit	
Hill I many	Terminal cover extended for 3-pole	✓					3VA9111-0WF30	1	1 unit	1CB
	breakers Including insulating plate		1				3VA9211-0WF30	1	1 unit	1CB
3VA9221-0WF30					 ✓		3VA9221-0WF30 3VA9481-0WF30	1	1 unit	1CB
	Terminal cover extended for 4-pole breakers	✓ 	 /				3VA9111-0WF40 3VA9211-0WF40	1	1 unit	
· and in the same	Including insulating plate						3VA9211-0WF40 3VA9221-0WF40	1	1 unit	
					 /		3VA9481-0WF40	1	1 unit	
3VA9221-0WF40					v					
	Terminal cover offset for 3-pole breakers	✓					3VA9111-0WG30	1	1 unit	
	Including insulating plate		/				3VA9211-0WG30	1	1 unit	
	5 5 j			✓			3VA9221-0WG30	1	1 unit	
3VA9221-0WG30					✓		3VA9401-0WG30	1	1 unit	1CB

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version		ded case No. stem	circuit b	reakers/	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA14	d					
	Terminal cover offset for 4-pole breakers	✓					3VA9111-0WG40		1	1 unit	
	Including insulating plate		/	 /			3VA9211-0WG40		1	1 unit	
					 /		3VA9221-0WG40 3VA9401-0WG40		1	1 unit	
3VA9221-0WG40	ally for fixed mounting										
insulating plates speci	Insulating plate, 2-pole	/					3VA9111-0WJ20		1	1 unit	1CB
3VA9111-0WJ20	modating plate, 2-pole	•					3743111-00020		'	, clint	IOD
6/1/11/4 200	Insulating plate, 3-pole	1					3VA9111-0WJ30		1	1 unit	1CB
			✓				3VA9211-0WJ30		1	1 unit	1CB
				✓			3VA9221-0WJ30		1	1 unit	
3VA9221-0WJ30					√		3VA9481-0WJ30		1	1 unit	1CB
HILLIAN HILLAND	Insulating plate, 4-pole	✓					3VA9111-0WJ40		1	1 unit	1CB
			✓				3VA9211-0WJ40		1	1 unit	1CB
				✓			3VA9221-0WJ40		1	1 unit	
					1		3VA9481-0WJ40		1	1 unit	1CB
3VA9221-0WJ40											
Manne Summer	Insulating plate offset, 3-pole	1					3VA9111-0WK30		1	1 unit	1CB
- Garage Changes			✓				3VA9211-0WK30		1	1 unit	1CB
				✓			3VA9221-0WK30		1	1 unit	
3VA9221-0WK30					/		3VA9481-0WK30		1	1 unit	1CB
Tuttel Stepanie	Insulating plate offset, 4-pole	1					3VA9111-0WK40		1	1 unit	1CB
Games Harries States	· -		/				3VA9211-0WK40		1	1 unit	1CB
				✓			3VA9221-0WK40		1	1 unit	
3VA9221-0WK40					√		3VA9481-0WK40		1	1 unit	1CB

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version		ded case No. stem		reakers/	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA14	d			,		
Control wire taps spe	cially for fixed mounting										
	Control wire tap for box terminal	1					3VA9110-0WB00		1	10 units	1CB
			1	1			3VA9200-0WB00		1	10 units	1CB
					✓		3VA9480-0WB00		1	10 units	1CB
3VA9200-0WB00											
	Control wire tap for busbar	1					3VA9110-0WC00		1	10 units	1CB
			1	1			3VA9200-0WC00		1	10 units	1CB
					✓		3VA9480-0WC00		1	10 units	1CB
3VA9200-0WC00											
	specially for fixed mounting										
31	DC insulating plate for 3VA1										
	Versions										
	For fixed-mounted molded case circuit breakers										
	- 3-pole	1					3VA9113-0SG10			10 units	
	- 4-pole	✓					3VA9114-0SG10		1	10 units	1CB
3VA9113-0SG10											
Side plate specially for	·										
	Side plate for 3VA1										
	Versions										
пп	For fixed-mounted molded case circuit breakers										
	- 2-pole	✓					3VA9112-0SG20		1	5 units	1CB
3VA9112-0SG20											

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Connection technology – specially for plug-in and draw-out units

	Version		ded cas No. stem		breakers/ S	SD		Price r PU	PU (UNIT, SET, M)	PS	PG
		3VA11	3VA12		3VA13 3VA14 3VA23 3VA24	t					
Terminal covers spec	cially for plug-in and draw-out units Terminal cover for plug-in/draw-out unit										
	 (spare part) To provide circuit breaker touch protection For mounting on the molded case circuit breaker Versions										
	• 3-pole	/					3VA9113-0KB01		1	1 unit	1CB
	 Included in scope of supply: Cover for infeed and outgoing side 		/				3VA9213-0KB01		1	1 unit	1CB
	Cover for infects and datgoing side			✓			3VA9123-0KB01		1	1 unit	1CB
					√		3VA9353-0KB01		1	1 unit	1CB
3VA9123-0KB01											
	4-poleIncluded in scope of supply:	✓					3VA9114-0KB01			1 unit	
	Cover for infeed and outgoing side		/				3VA9214-0KB01			1 unit	
				✓			3VA9124-0KB01			1 unit	
3VA9124-0KB01					✓		3VA9354-0KB01		I	1 unit	ICB
	Terminal cover for plug-in or draw-out socket • For touch protection in the termination area of the plug-in or draw-out socket • For mounting on the plug-in or draw-out socket										
	Versions										
	• 3-pole	✓					3VA9153-0KB03			1 unit	
			/				3VA9253-0KB03			1 unit	
				✓			3VA9163-0KB03			1 unit	
3VA9153-0KB03					✓		3VA9353-0KB03		1	1 unit	1CB
	• 4-pole	✓					3VA9154-0KB03			1 unit	
			/				3VA9254-0KB03			1 unit	
0\\\0154.0\\\D00				/			3VA9164-0KB03			1 unit	
3VA9154-0KB03	Terminal cover, extended, for plug-in or draw-out socket				✓		3VA9354-0KB03		1	1 unit	1CB
	 For touch protection in the termination area of the plug-in or draw-out socket For mounting on the plug-in or draw-out socket 1 insulating plate 										
	Versions										
may may may	• 3-pole	✓					3VA9153-0KB04			1 unit	
· ·			✓				3VA9253-0KB04			1 unit	
100 Table 200 Table 1				✓ 			3VA9163-0KB04			1 unit 1 unit	
3VA9153-0KB04					✓		3VA9353-0KB04		I	i unit	IOB
Allilli Linns	• 4-pole	1					3VA9154-0KB04		1	1 unit	1CB
			✓				3VA9254-0KB04			1 unit	
				1			3VA9164-0KB04		1	1 unit	1CB
CONTRACTOR OF THE PARTY OF THE					✓		3VA9354-0KB04		1	1 unit	1CB
3VA9154-0KB04											

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Connection technology – specially for plug-in and draw-out units

		_									
	Version		ded case No. stem		oreakers/	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		3VA11	3VA12	3VA21	3VA13 3VA14 3VA23 3VA24	d					
	Terminal cover, offset, for plug-in or draw-out socket For touch protection in the termination area of the plug-in or draw-out socket For mounting on the plug-in or draw-out socket insulating plate Versions										
Million Comme	• 3-pole	/					3VA9153-0KB05		1	1 unit	1CB
			/				3VA9253-0KB05		1	1 unit	1CB
				✓			3VA9163-0KB05		1	1 unit	1CB
3VA9153-0KB05					√		3VA9353-0KB05		1	1 unit	1CB
man fauta mana sa	• 4-pole	✓					3VA9154-0KB05		1	1 unit	1CB
			✓				3VA9254-0KB05			1 unit	
				✓			3VA9164-0KB05			1 unit	
3VA9154-0KB05					✓		3VA9354-0KB05		1	1 unit	1CB

	Version	Minimum for stranded cable	Maximum for stranded cable			e circuit b	oreakers/	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d					
Wire connector	rs specially for plug-	in and drav	v-out units										
AND AND THE STATE OF THE STATE	Wire connector,	25 mm ²	150 mm ²	1					3VA9153-0JC12		1	1 unit	1CB
	large, with control wire tap	50 mm ²	240 mm ²		1				3VA9253-0JC13		1	1 unit	1CB
000	Included in scope of supply: • 3 single terminals • 1 terminal cover extended • 1 insulating plate	50 mm ²	240 mm ²			✓	-		3VA9263-0JC13		1	1 unit	1CB
3VA9153-0JC12	W.	05 2	150 0	,					01/40454 0 1040		1	- 0	100
	Wire connector, large, with control	25 mm ²	150 mm ²	✓					3VA9154-0JC12		1	1 unit	
	wire tap	50 mm ²	240 mm ²		✓				3VA9254-0JC13		1	1 unit	
3VA9154-0JC12	Included in scope of supply: • 4 single terminals • 1 terminal cover extended • 1 insulating plate	50 mm ²	240 mm ²			/	-		3VA9264-0JC13		1	1 unit	ICB

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Connection technology – specially for plug-in and draw-out units

	Version	Minimum for stranded cable	Maximum for stranded cable			e circuit b	oreakers/	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	SET,	PS	PG
				3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d			M)		
and madamis	Wire connector,	2 x 25 mm ²	2 x 150 mm ²		✓				3VA9253-0JC22		1	1 unit	1CB
	2 cables,	2 x 25 mm ²	2 x 150 mm ²			1			3VA9263-0JC22		1	1 unit	1CB
	with control wire tap Included in scope	2 x 70 mm ²	2 x 300 mm ²				/		3VA9483-0JC23		1	1 unit	1CB
3VA9263-0JC22	of supply: 3 single terminals 1 terminal cover extended 1 insulating plate												
01110200 0002E	Wire connector,	2 v 25 mm ²	2 x 150 mm ²		/				3VA9254-0JC22		1	1 unit	1CB
	2 cables,		2 x 150 mm ²			 ✓			3VA9264-0JC22		1	1 unit	
	with control wire tap						<i></i>						
	Included in scope of supply:	2 x /0 mm²	2 x 300 mm ²				V		3VA9484-0JC23		1	1 unit	ICB
3VA9264-0JC22	4 single terminals 1 terminal cover extended 1 insulating plate												
ATTA MATTALLE	Distribution wire	6 x 1.5 mm ²	6 x 35 mm ²	1					3VA9153-0JF60		1	1 unit	1CB
	connector, 6 cables	6 x 1.5 mm ²	6 x 35 mm ²		1				3VA9253-0JF60		1	1 unit	1CB
	Included in scope of supply:		6 x 35 mm ²			/			3VA9263-0JF60		1	1 unit	1CB
0.0	3 single terminals		6 x 35 mm ²				/		3VA9383-0JF60		1	1 unit	
3VA9153-0JF60	1 terminal cover extended1 insulating plate												
	Distribution wire	6 x 1.5 mm ²	6 x 35 mm ²	1					3VA9154-0JF60		1	1 unit	1CB
	connector, 6 cables Included in scope	6 x 1.5 mm ²	6 x 35 mm ²		1				3VA9254-0JF60		1	1 unit	1CB
	of supply:	6 x 1.5 mm ²	6 x 35 mm ²			/			3VA9264-0JF60		1	1 unit	1CB
Selected Sel	4 single terminals1 terminal cover extended1 insulating plate	6 x 1.5 mm ²	6 x 35 mm ²				✓		3VA9384-0JF60		1	1 unit	1CB
河河河南													
3VA9154-0JF60													
	os specially for plug		w-out										
	Control wire tap for b	ox terminal		✓					3VA9150-0WB00			10 units	
					✓	✓			3VA9280-0WB00		1	10 units	1CB
							1		3VA9480-0WB00		1	10 units	1CB
3VA9280-0WB00													
	Control wire tap for b	usbar		1					3VA9150-0WC00		1	10 units	1CB
	•				/	/			3VA9280-0WC00			10 units	
							1		3VA9480-0WC00			10 units	
											•		
2													
ि													
0)/4,0000 011/005													
3VA9280-0WC00													

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Plug-in and draw-out technology

Overview

Using plug-in and draw-out technology the 3VA molded-case circuit breakers can be installed/removed or replaced quickly and safely. In this case, the cables or busbars of the main current paths are connected to the taps of the plug-in socket or the draw-out socket.

The termination areas of the sockets for these versions are designed in the same way as those of the molded case circuit breakers but, due to the different requirements for creepages and clearances, have slightly different dimensions.

This means that all connections without insulating measures (e.g. box terminals) from the range of breakers can also be used with the socket for plug-in or draw-out units.

Connections with insulating measures have their own article numbers and are listed below.

A 3VA molded case circuit breaker in the plug-in or draw-out version has plug-in contacts on the input and load side of the main terminals. When the circuit breaker is plugged or moved into the socket, the plug-in contacts slide into the socket-side tulip contacts and connect the main current paths with the circuit breaker. In addition, auxiliary circuit connectors can be used to connect the auxiliary and control signals from the internal accessories of the molded case circuit breaker to the outside.

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

Plug-in technology

Plug-in technology is the less expensive and more space-saving of the two solutions. The plug-in version of the molded case circuit breaker is equipped with plug-in contacts on the back of the 3VA molded case circuit breaker. These make a friction-locked and keyed connection with the corresponding mating connectors in the plug-in socket. The plug-in unit can be supplied as a complete kit or as a conversion kit for breakers including screw-fastened terminal covers.

Draw-out technology

Draw-out versions of the molded case circuit breaker are also equipped with plug-in contacts at the main current paths. In addition, side walls including guide and support bolts are bolted to the sides of the molded case circuit breaker. With this version, the mating component is the draw-out socket. It is also equipped with a guide mechanism via which the molded case circuit breaker is moved into the draw-out socket by means of a handle in order to connect the breaker to the main circuits. The operator can clearly read from a position indicator whether the breaker is properly connected to the main circuits or safely isolated from them (so that it can be withdrawn).

Position signaling switches which transmit the position information CONNECT, TEST, and DISCONNECT can be integrated in the right-hand side wall of the draw-out unit. A special set of position signaling switches transfers the position data to the COM060 communication module via a preassembled wire.

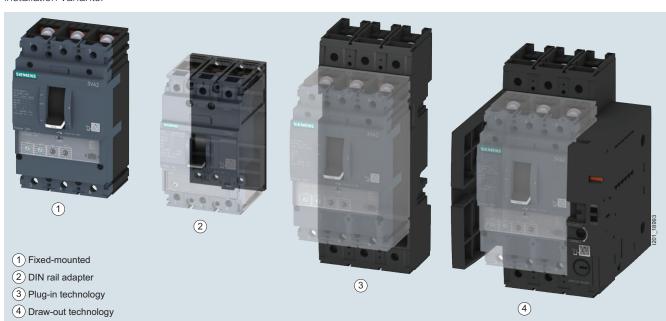
The draw-out complete kit as well as the draw-out conversion kit for one breaker are available. Both kits include screw-fastened terminal covers for the breaker. The crank handle for the draw-out unit must be ordered separately.

Benefits

- Molded case circuit breakers can be replaced quickly and easily for the purpose of overhaul or servicing
- Electrical isolation and clearly visible isolating distance
- 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, draw-out or fixed-mounted units
- Test of the auxiliary and control circuit connections in the test position of the draw-out unit possible without contacted main current paths

Installation variants

3VA molded case circuit breakers are available in the following installation variants:



3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version		ded case	circuit br	eakers/	SD	Article No.	Price	PU	PS	PG
		Article N 3VA11	No. stem 3VA12	3VA21	3VA23	ما	www.siemens.com/ product?Article No.	per PU	(UNIT, SET, M)		
Plug-in socket					3VA24	u					
Thug in books.	Plug-in unit, complete kit Comprising: • Plug-in socket • Conversion kit • Mounting screw kit										
	Versions						01/40440 01/200		- 4	4	100
555	• 3-pole						3VA9113-0KP00			1 unit	
			✓ 	 /			3VA9213-0KP00 3VA9123-0KP00			1 unit	
					<i>✓</i>		3VA9323-0KP00			1 unit	
3VA9123-0KP00	• 4-pole	/					3VA9114-0KP00		-1	1 unit	105
777	4-pole						3VA9114-0KP00 3VA9214-0KP00			1 unit	
				√			3VA9124-0KP00			1 unit	
3 VA9124-0KP00					1		3VA9324-0KP00			1 unit	
	Plug-in unit, conversion kit Comprising: Screw-fastened terminal covers for mase circuit breakers Plug-in contacts Cable cages Autotrip plunger Versions	nolded									
ଗଗଗ	• 3-pole	✓					3VA9113-0KP10			1 unit	
- Thirty			/				3VA9213-0KP10			1 unit	
				✓			3VA9123-0KP10 3VA9323-0KP10			1 unit	
officials							3VA9323-UKP10		I	i uniit	ICE
3VA9123-0KP10	a 4 polo						2VA0444.0KD40		-	1 . mit	100
ផតផត	• 4-pole		 /				3VA9114-0KP10 3VA9214-0KP10			1 unit 1 unit	
				✓			3VA9124-0KP10			1 unit	
nine and the					1		3VA9324-0KP10			1 unit	
<u>ದೆದೆದೆದೆ</u>											

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

-	<u> </u>							
	Version	For mole	led case	circuit bre	eakers/	SD	Article No. Price	PU PS PG
		Article N					www.siemens.com/ per PU	(UNIT,
		3VA11	3VA12	3VA20 3VA21	3VA13 3VA14		product?Article No.	SET, M)
				3VA21	3VA23			,
D					3VA24	d		
Draw-out units	Draw and unit as mulate hit	1						
	Draw-out unit, complete kit Comprising:							
	Draw-out socket Conversion kit							
	Mounting screw kit							
	Versions							
Mary Mary	• 3-pole		1			_	3VA9213-0KD00	1 1 unit 1CB
				✓		_	3VA9123-0KD00	1 1 unit 1CB
1 (1)					1		3VA9323-0KD00	1 1 unit 1CB
Same with								
ថថថ								
3VA9123-0KD00	- 4l-		,				3VA9214-0KD00	1 1
130000000000000000000000000000000000000	• 4-pole		✓ 	 ✓		_	3VA9214-0KD00 3VA9124-0KD00	1 1 unit 1CB 1 1 unit 1CB
					/		3VA9324-0KD00	1 1 unit 1CB
3VA9124-0KD00								
3VA9124-0ND00	Note	_						
	The crank handle for the draw-out unit must	_						
	be ordered separately.							
	Draw-out unit, conversion kit Conversion kit comprising:							
	Screw-fastened terminal covers for molded case circuit breakers							
	Side walls							
	Plug-in contactsCable cages							
	Autotrip plungers							
	Versions							
ធីតីត	• 3-pole		✓			_	3VA9213-0KD10	1 1 unit 1CB
4				✓ 	 /		3VA9123-0KD10 3VA9323-0KD10	1 1 unit 1CB
					<i>y</i>		3VA9323-UND1U	1 1 unit 1CB
nditroners of								
ថថថ								
3VA9123-0KD10	• 4 polo		/			Н	3\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 1 unit 100
สสสส	• 4-pole		✓ 	 /			3VA9214-0KD10 3VA9124-0KD10	1 1 unit 1CB 1 1 unit 1CB
					✓		3VA9324-0KD10	1 1 unit 1CB
nther districts								
V								
PRPM on on								
3VA9124-0KD10								
JVM3124-UND IU								I

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version	For mole Article N	ded case of	circuit bre	eakers/	SD		U) U		PS	PG
		3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d	product?Article No.	,	SET, M)		
Cable cage									-		
	Cable cage for plug-in/draw-out unit	✓					3VA9157-0KB02		1	1 unit	1CB
	3/4-pole (spare part) Cable duct for routing of the required cables		✓				3VA9257-0KB02		1	1 unit	1CB
	from the internal accessories on the back of			1			3VA9167-0KB02		1	1 unit	1CB
2	the circuit breaker				1		3VA9367-0KB02		1	1 unit	1CB
3VA9167-0KB02											
Door feedthrough											
•	Door feedthrough		1				3VA9257-0KT00		1	1 unit	1CB
				1			3VA9167-0KT00		1	1 unit	1CB
3VA9167-0KT00					√		3VA9367-0KT00		1	1 unit	1CB

	Version		ded case No. stem		oreakers/	SD		rice PU	SET,	PS	PG
		3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	d			M)		
Spare part: Autotrip plui	nger										
-	Autotrip plunger										
	 Accessories for plug-in unit 	1					3VA9157-0KP81		1	1 unit	1CB
The state of the s			1				3VA9257-0KP81		1	1 unit	1CB
THE REAL PROPERTY OF THE PARTY				1			3VA9267-0KP81		1	1 unit	1CB
					1		3VA9457-0KP81		1	1 unit	1CB
	 Accessories for draw-out unit 		1				3VA9257-0KD81		1	1 unit	1CB
				1			3VA9267-0KD81		1	1 unit	1CB
3VA9457-0KP81					✓		3VA9457-0KD81		1	1 unit	1CB

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version		SD	Article No.	Price	PU	PS	PG
				www.siemens.com/ product?Article No.	per PU	SET,		
			d			M)		
Other accessories								
	Communication link for draw-out unit Comprising:			3VA9987-0KC00		1	1 unit	1CB
	 Cable kit with 3 special position signaling swit 	ches						
	Connecting cable 3VA9987-0KC10							
őőő ^á								
PPF								
3VA9987-0KC00	Position signaling switches			3VA9987-0KB00		1	1 unit	1CR
	Position signaling switches • For draw-out unit			3VA9907-UNDUU		'	i uriit	ICB
	For plug-in unit							
3VA9987-0KB00								
<i>></i>	Spare part: connecting cable			3VA9987-0KC10		1	1 unit	1CB
	To connect the position signaling switches for country with the COM060	ommunication						
3VA9987-0KC10	Crank handle for draw-out unit			3VA9987-0KD81		1	1 unit	1CB
	Insulated, incl. crank holder			3VA3307-0KD01		'	1 UIIII	ICD
3VA9987-0KD81								
	Auxiliary circuit connector							
	Versions			01/40007 01/000		-	4	100
	For all draw-out units For all plug-in units			3VA9987-0KD80 3VA9987-0KP80			1 unit	
1	To all plug-in units			37A3307-0KF 00		'	1 UIIII	ICD
14	Note							
	Each auxiliary circuit connector is designed for	4 cables.						
3VA9987-0KD80								
3VA9907-UNDOU								
	Version		CL	Artiala Na	Del -	DII	DC	D0
	Version		SD	Article No. www.siemens.com/	Price per PU	(UNIT,	PS	PG
				product?Article No.		SET, M)		
			d			IVI)		
	Cylinder lock (type Ronis)		_					
	Includes a lock with 2 keysFor locking or interlocking	Key 1 (lock number 1)		3VA9980-0VL10		1	1 unit	1CB
	For installation in all rotary operators	Key 3 (lock number 3)		3VA9980-0VL30			1 unit	
0 1	For mounting in the adapter kit for the accessories compartment	Key 4 (lock number 4)		3VA9980-0VL40		1	1 unit	1CB
	Not for 3VA15/3VA25!							
3VA9980-0VL10								
	Cylinder lock adapter for draw-out unit	a wall of the draw antimit		3VA9980-0LF40		1	1 unit	1CB
	 For fitting a cylinder lock in the right-hand side To prevent unauthorized withdrawal or insertio 	n of the circuit breaker into						
3VA9980-0LF40	the draw-out unit Circuit breaker can be locked in the CONNECT							
-	positions	I, ILOI ANA DISCONNECT						

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Residual current devices

Overview

Residual current devices can be used to prevent hazardous residual currents that could cause injury to personnel and livestock, and damage to property. These are available as accessory components for the 3VA series.

Residual current devices of type A are available for the detection of purely sinusoidal AC residual currents and pulsating DC residual currents. If smooth DC residual currents can occur in an application, universal current-sensitive residual current devices (type B/B+) shall be used. If there is the need for enhanced preventative fire protection in an application it is recommended to use type B+.

The combination of molded case circuit breakers or switch disconnectors with mounted residual current devices complies with IEC 60947-2 Annex B, while the combination with modular residual current devices of type A complies with IEC 60947-2 Annex M.



"Basic" type residual current devices for 3VA1

The "Basic" type residual current devices are characterized by the following features:

- LEDs for signaling "ready" state and pre-alarms
- Tripped signal at device and via electrical contacts

Special features for RCD520B (type B): NEW

- LED for MONITORING MODE
- Pre-alarm via electrical contacts
- Selection between tripping characteristic and RCD/monitoring mode
- 3-pole version in 4-pole enclosure

On the residual current devices of the 5-series (RCD5..), tripping can be delayed by up to three seconds for type A and up to ten seconds for type B so that in the event of a fault, only the branch containing the fault is switched off by means of appropriate selective grading of the series-switched residual current devices. The device types of the 3-series (RCD3..) are instantaneous versions, in other words, they trip immediately.

RCD310 and RCD510

The RCD310/RCD510 can be combined with the 3VA1 molded case circuit breaker and the switch disconnector. They are mounted on the left side of the breaker. In the event of a residual current, the breaker is tripped by an RCR (residual current release) built into the left accessories compartment of the breaker

RCD320, RCD520 and RCD520B

RCD320, RCD520 and RCD520B can be installed below the trip unit of the 3VA1 molded case circuit breaker. Equipping the molded case circuit breaker fully with internal accessories is easy because with these residual current devices, the molded case circuit breaker is tripped by a plunger that is already integrated into the residual current device and the circuit breaker.

"Advanced" type residual current devices for 3VA2

RCD820

"Advanced" residual current devices can detect fault type A currents up to 10 A and type AC up to 30 A. Status message can be forwarded via the large number of auxiliary contacts on the unit or via the communication connection. LEDs for signaling the "ready" state of the residual current device, the communication connection, and the two pre-alarms on the residual current device provide information on the current status on-site.

Modular residual current device for 3VA1/3VA2

As well as a residual current device mounted direct on the breaker, a modular solution is also available.

For further information, see chapter "Monitoring Devices" in the section on residual current devices (MRCD).

Benefits

RCD310 and RCD510

- Increased packaging density in the cubicle thanks to the compact L-shaped design
- Through-hole technology saves inconvenient wiring of the breaker and the residual current device
- Mounting of a DIN rail adapter enables attachment to a DIN rail
- Side-by-side arrangement with miniature circuit breakers possible thanks to 45 mm cover size
- Function of a shunt trip automatically integrated by RCR dual functionality
- Deliberate acknowledgment of a residual current prevents unintentional restart
- Can be used purely as a display unit

RCD320 and RCD520

- · Compact design saves space in the cubicle
- Deliberate acknowledgment of a residual current prevents unintentional restart

Additional benefits with RCD520B: NEW

- Switchover between residual current monitoring or disconnection provides optimum protection and saves time during commissioning
- Universal application: Selectable tripping characteristic also permits use for enhanced fire protection

RCD820

- Communication connection or alternatively electrical contacts ensure fast status messages – even remotely
- Advanced RCD820 is also suitable for use as a display unit
- Staggered pre-alarms prevent/avoid plant downtimes
- Local presence not required thanks to remote test, acknowledgment and commissioning of the RCD820 via electrical contacts or communication

3VA Molded Case Circuit Breakers up to 1000 A - accessories, IEC

Residual current devices

Selection and ordering data

Version	ci	or molded ircuit break rticle No. s	ers/		Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET,	PS	PG
	31	VA11	3VA12	d			M)		

Residual current devices (RCD) for 3VA1

Type A (pulse current sensitive)

- Mounted on the side (left)Trip element (RCR) included in the scope
- Can only be mounted on molded case circuit breakers and switch disconnectors with box terminal • $U_e = 127 - 480 \text{ V AC}$, 50/60 Hz

Notes

- 3VA11: If the molded case circuit breaker has no box terminals as connections, a set of box terminals must be ordered additionally for the taps below the thermal-magnetic trip units.
- 3VA12: 1 set of box terminals is included in scope of supply of the RCD510 (3VA921.-0RS20).

• Rated residual response current, adjustable: $I_{\Delta n} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5$ A; default: 30 mA



3VA9114-0RS10



3VA9113-0RS20



3VA9114-0RS20

RCD510

RCD310

4-pole

• instantaneous (INS)

- Rated residual response current, adjustable: $I_{\Delta \rm n} = 0.03$ - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 A; default: 30 mA
- Delay time, adjustable: Δt = Instantaneous (INS) - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3 s; default: instantaneous (INS)

VELSIOLIS				
• 3-pole	✓		3VA9113-0RS20	1 1 unit 1CB
		✓	3VA9213-0RS20	1 1 unit 1CB
• 4-pole	✓		3VA9114-0RS20	1 1 unit 1CB
		1	3VA9214-0RS20	1 1 unit 1CB

Spare part: Residual current release



Residual current release (RCR)

- Accessories for side mounted RCD310 and
- Scope of supply: RCR, RCR-RCD cables
- For all side mounted residual current devices

3VA9988-0BR10

3VA9114-0RS10

1 unit 1CB

1 unit 1CB

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Residual current devices

	Version	For molded circuit brea Article No.	kers/ stem	SD	Article No. Price www.siemens.com/ per PU product?Article No.	PU (UNIT, SET, M)	PS	PG
Residual current de	evices (RCD) for 3VA1	3VA11	3VA12	d		,		
ricoladal carrent d	Type A (pulse current sensitive)							
	 Mounted below (under trip unit) Can be mounted on molded case circuit breakers U_e = 127 - 480 V AC, 50/60Hz 	S						
3VA9114-0RL10	RCD320 • 4-pole • Rated residual response current, adjustable: $I_{\Delta n} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5$ A; default: 30 mA • instantaneous (INS)	<i>y</i>			3VA9114-0RL10	1	1 unit	1CB
3VA9113-0RL20	 RCD520 Rated residual response current, adjustable: I_{An} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 A; default: 30 mA Delay time, adjustable: Δt = Instantaneous (INS) - 0.06 - 0.15 - 0.3 - 0.5 - default: instantaneous (INS) Versions	1 - 2 - 3 s;						
3VA9113-011L20	• 3-pole	1			3VA9113-0RL20	1	1 unit	1CB
· ·			1		3VA9213-0RL20	1	1 unit	1CB
	• 4-pole	1			3VA9114-0RL20	1	1 unit	1CB
3VA9114-0RL20			J		3VA9214-0RL20	1	1 unit	1CB
	Type B and B+ (universal current sensitive) NEW in the range from 0 to 100 kHz • According to IEC EN 60947-2 • According to DIN VDE 0664-400 (type B+) • Mounted below (under trip unit) • Can be mounted on molded case circuit breakers • U _e = 127 - 690 V AC, 50/60 Hz RCD520B	5						
3VA9113-0RL21	 Rated residual response current, adjustable type B: I_{∆n} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 type B+: I_{∆n} = 0.03 - 0.05 - 0.1 - 0.3 A; default: 30 mA Delay time, adjustable: Δt = Instantaneous (INS) - 0.06 - 0.15 - 0.3 - 0.5 - default: instantaneous (INS) RCD or MONITORING mode adjustable default: RCD mode Tripping characteristic type B or type B+ adjustat default: Tripping characteristic type B 	1 - 2 - 3 - 5 -	10 s;					
	Versions NEW							
000	• 3-pole	✓			3VA9113-0RL21	1	1 unit	
3VA9114-0RL21	• 4-pole	✓			3VA9114-0RL21	1	1 unit	1CB

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Residual current devices

	Version		ded case No. stem	e circuit l	breakers/	SD	Article No. www.siemens.com/	Price per PU	(UNIT,	PS	PG
		3VA20 3VA21	3VA22	3VA23	3VA24	d	product?Article No.		SET, M)		
Residual current	devices (RCD) for 3VA2										
	Type A (pulse current sensitive) Mounted below (under trip unit) With energy infeed from below, the required auxiliary switch (AUX) must be ordered separately. U _e = 127 - 690 V AC, 50/60 Hz RCD820 Rated residual response current, adjustable:										
3VA9123-0RL30	 Acted residual response current, adjustable: I_{An} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 - 10 - 30 A; default: 30 mA Delay time, adjustable: At = 0 - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3 - 5 - 10 s; default: instantaneous (INS) Note: 30 A setting range only for type AC applications 										
0 0 0 0	Versions										
•	• 3-pole	1					3VA9123-0RL30		1	1 unit	1CB
-			1				3VA9223-0RL30		1	1 unit	1CB
L L I				✓			3VA9323-0RL30			1 unit	
040404					✓		3VA9423-0RL30			1 unit	
3VA9124-0RL30	• 4-pole	✓					3VA9124-0RL30			1 unit	
			/				3VA9224-0RL30			1 unit	
				/			3VA9324-0RL30			1 unit	
					✓		3VA9424-0RL30		1	1 unit	1CB

Version	For molded case circuit breakers/ Article No. stem					Article No. www.siemens.com/ product?Article No.	Price per PU	SET,	PS	PG
	3VA10 3VA11		3VA20 3VA21 3VA22	3VA14	d			M)		

Modular residual current device MRCD



For more information, see chapter "Monitoring Devices".

3VA Molded Case Circuit Breakers up to 1000 A - accessories, IEC

Communication and testing/commissioning devices

Overview

Metering function

The Rogowski coils integrated in the 3VA2 molded case circuit breakers are capable of delivering particularly accurate current measurements. An additional voltage tap is integrated in molded case circuit breakers equipped with an 8-series ETU, which means that energy data can also be measured – the 3VA2 molded case circuit breaker therefore offers a range of metering functions similar to those available with the tried-and-tested 7KM PAC measuring device!

An external current transformer for N conductors is available to allow direct measurement of the neutral conductor current with 3-pole molded case circuit breakers. When the 3-pole circuit breaker is installed in the 4-pole network, it is advisable to deploy the voltage tap at the neutral conductor so that the neutral point of the voltage network can be fixed.

Communication via the COM800/COM100 breaker data server

The 3VA2 molded case circuit breaker utilizes a modern communication concept. This concept is based on the COM800 breaker data server which can link up to eight molded case circuit breakers to different bus systems. For applications involving only one 3VA2 molded case circuit breaker, the COM100 is an ideal alternative to the COM800 breaker data server.

The COM060 communication module in the molded case circuit breaker is wired via a T-Connector to the COM800/COM100 breaker data server. Integrated as standard in the COM800/COM100 breaker data server is an Ethernet interface with the Modbus TCP protocol to allow communication with powerconfig and the powermanager. Optional communication modules can be installed to provide different communication protocols. An additional benefit of this structure is that the communication costs per molded case circuit breaker decrease with every further circuit breaker that is connected to the COM800 breaker data server.

The communication equipment for the molded case circuit breakers can be installed and connected extremely easily, reliably and efficiently thanks to the connector system used. The 24 V DC supply to the Electronic Trip Units is also reliably provided by these connections. The breaker data server utilizes independent supplementary functions to deliver valuable information about the connected molded case circuit breakers and the power distribution system.

Flexible communication thanks to optional expansion modules

With COM800/COM100, the 3VA2 molded case circuit breakers can be integrated into the relevant communication networks via the following optional expansion modules:

- Switched Ethernet PROFINET
- PROFIBUS
- RS 485 (Modbus RTU)

The molded case circuit breakers can be integrated via PROFINET and PROFIBUS directly into the TIA Portal V14 and SIMATIC Energy Suite. GSDML and GSD files are available as support for STEP 7 V5 and other engineering systems.

DSP800 display

The DSP800 display can be used to show breaker information (status, measured values, parameters) on the cubicle door. It communicates via the integral Ethernet interface with the COM800/COM100 and is thus able to display the data of up to 8 3VA2 molded case circuit breakers simultaneously.

EFB300 external function box

The EFB300 external function box is linked directly to the ETU of the 3VA2 molded case circuit breaker by a cable. It provides four digital outputs and one digital input. The powerconfig commissioning and service software can be used to set which information is to be output from the ETU via the four digital outputs:

- · All reasons for tripping, categorized according to LSING
- Overload alarms AL1 and AL2
- Pre-trip alarm from overload protection system
- · Load shedding and load pick-up
- Temperature alarm
- Output of an energy pulse (S0 signal), in combination with an 8-series ETU only

A zone selective interlocking functionality (ZSI) can also be implemented via the module.

Note:

A TD500 or the COM060 and COM800/COM100 combination is needed to program a change in the output assignments with powerconfig.

TD300 and TD500 test devices

The TD300 activation and trip box is a mobile, battery-operated local test device. One of its functions is to provide a temporary power supply to the Electronic Trip Units (ETUs) so that they can be operated and parameterized. It is also used to test the tripping function of the molded case circuit breaker.

The TD500 mobile test device allows the proper functioning and connections of all connected system components to be tested at the breaker commissioning stage because it is capable of simulating every conceivable cause of breaker tripping. The molded case circuit breaker responds as if the emergency were real – it trips in accordance with the set parameters and transmits all alarm and trip signals to the connected components.

The TD500 test device can be used as a hand-held tester or in conjunction with a PC. In the latter case, the TD500 test device is connected to the PC via a supplied USB cable and acts as a gateway to the 3VA2 molded case circuit breaker. Using the powerconfig commissioning and service software, it is possible to read out or modify the setting parameters of the molded case circuit breaker and monitor the measured values.

Current and stored test operations can be documented in test reports using powerconfig. The test reports can be saved and printed in PDF format or saved in a csv file for further analysis.

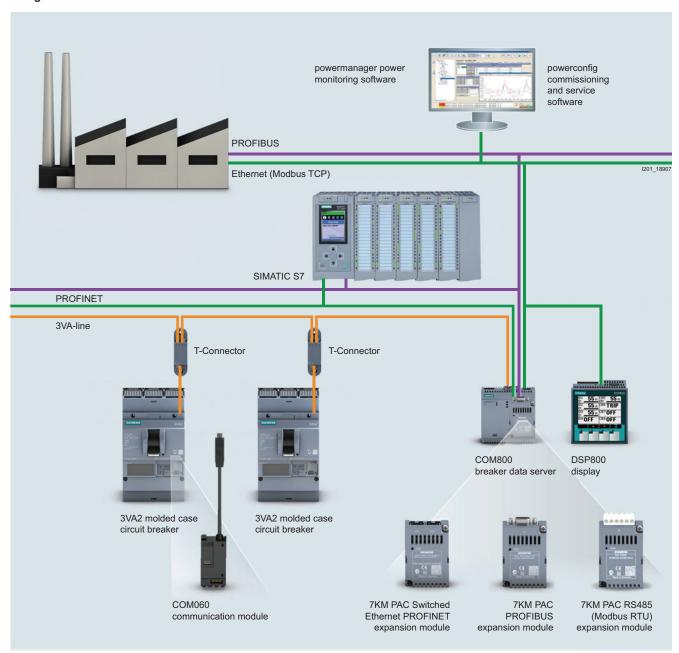
Benefits

- The metering function integrated in 8-series ETUs can acquire energy data without requiring additional external transformers
- The COM800 breaker data server provides a cost-efficient communication interface for up to 8 3VA2 molded case circuit breakers
- Universal bus interfaces are available for the COM800/COM100 breaker data server
- Universal S0 interface for the output of energy pulses
- 100 test results can be stored with the TD500 test device
- Status and measured values of up to 8 molded case circuit breakers are displayed in the cubicle door using the DSP800

3VA Molded Case Circuit Breakers up to 1000 A - accessories, IEC

Communication and testing/commissioning devices

Design



3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Communication and testing/commissioning devices

Overview of the metering functions

			ETUs of th	ie	Display		Communication
Metering function ¹⁾			5-series	8-series	Display in ETU	DSP800	COM800/COM100
Current							
Phase and neutral conductor currents	I_1, I_2, I_3, I_N	Α	✓	✓	③	③	③
Residual current to ground	I_{g}	А	✓	✓	③	③	③
Phase with highest load		А	✓	✓	③	③	③
Mean value over the three phase currents	$I_{LAVG} = (I_1 + I_2 + I_3)/3$	А		✓		③	③
Asymmetry of the phase currents	I _{nba}	%		✓		③	③
THD of the 3 phases	THDI ₁ , THDI ₂ , THDI ₃	%		✓		③	③
Voltage							
Phase voltages incl. mean value	U ₁₂ , U ₂₃ , U ₃₁ , U _{phavg}	V		✓	③	③	③
Voltages to N conductor incl. mean value	U _{1N} , U _{2N} , U _{3N} , U _{Navg}	V		✓		③	③
Voltage unbalance		%		✓		③	③
THD phase/phase and phase/N	THDI ₁ , THDI ₂ , THDI ₃	%		✓		③	③
Power							
Active power, total and per phase	P ₁ , P ₂ , P ₃ , P _{tot}	kW		✓	(P _{tot})	③	③
Apparent power, total and per phase	S ₁ , S ₂ , S ₃ , S _{tot}	kVA		✓		③	(i)
Reactive power, total and per phase	Q ₁ , Q ₂ , Q ₃ , Q _{tot}	kVAr		1	③	③	③
Power factor of the fundamental	PF ₁ , PF ₂ , PF ₃ , PF _{avg}			✓		③	③
Energy							
Active energy, infeed and feedback	Ep	kWh		✓	③	③	(a)
Reactive energy, infeed and feedback	Eq	kVArh		✓		③	③
Apparent energy	Es	kVAh		✓		③	③
Frequency							
Present frequency	f	Hz		✓	③	③	③
Maximum pointer function							
Min./max. current, voltage, power	With time stamp						③

¹⁾ Depending on ETU version

Accuracy specifications

Accuracy levels of the specified measured values of the 8-series ETU, including the integrated current sensors:

Measured value	Additional condition	Accuracy in % of the read-off measured value
Current	0.08 × I _b 2 × I _b	±1%
Voltage (L-N)	80 V < <i>U</i> < 480 V	±1%
THD current	Up to the 19th harmonic $0.08 \times I_b \dots 2 \times I_b$	±5%
THD voltage	Up to the 19th harmonic 80 V < <i>U</i> < 480 V	±5%
Power factor PF	$0.08 \times I_{b} \dots 2 \times I_{b}$	± 0.05% absolute
Active power	$I_{\rm b}$ and $U_{\rm n}$ as described below the table	Class 2 according to IEC 61557-12
Active energy	$I_{\rm b}$ and $U_{\rm n}$ as described below the table	Class 2 according to IEC 61557-12
Reactive power	$0.08 \times I_{b} \dots 2 \times I_{b}$	±2%
Apparent power	PF 0.6 inductive PF 0.8 capacitive	
Reactive energy	0.08 × I _b 2 × I _b	±2%
Apparent energy	PF 0.6 inductive PF 0.8 capacitive	
Frequency	80 V < <i>U</i> < 480 V	±0.1%

Legend:

 $I_{\mbox{\scriptsize b}}$ is the maximum current in the relevant size.

Example: 3VA21 $I_b = 160 A$

 \textit{U}_{n} refers to the nominal voltage of the metering function;

between phase and neutral

All specified accuracies refer to an ambient temperature of

23 °C ± 2 °C.

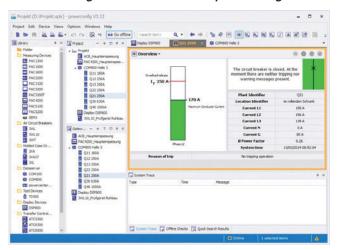
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Displayable

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Communication and testing/commissioning devices

Commissioning and service software: powerconfig

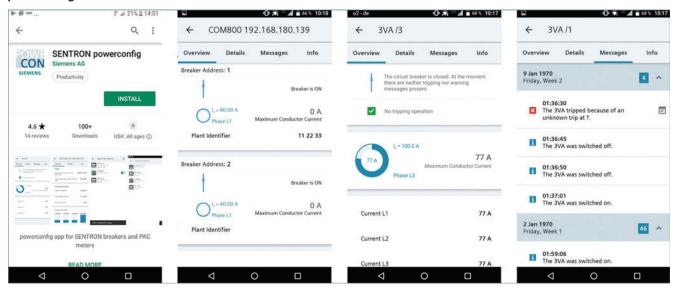


- Commissioning and service software for 3VA2 molded case circuit breakers and all other electronic SENTRON components
- For Windows 7 Professional, Windows 8.1 Professional, Windows 2008 Server and Windows 10
- Connections via TD500 and Ethernet, PROFINET, PROFIBUS and RS 485.
- Languages: German, English, Chinese, Spanish, Portuguese, Italian, Turkish, Polish, Russian
- Enables complete use of the electronic components of the 3VA2 such as ETU, EFB300, DSP800, TD500
- Communication via PROFINET, PROFIBUS, Ethernet Modbus TCP and RS 485 with Modbus RTU
- see also chapter "Software" "Configuring, Visualizing and Controlling with SENTRON".
- powerconfig can be downloaded free of charge from Siemens Industry Online Support at

http://support.automation.siemens.com/WW/view/en/63452759

 More information can be found on the Internet at: www.siemens.com/sentron

powerconfig for mobile devices



- Software for commissioning and service of the 3VA, 3WL molded case circuit breakers, PAC3200 and PAC4200
- Displays the current states and measured values
- Access by the powerconfig mobile app to data via WLAN access point that is connected via Modbus TCP to COM800/100 (for 3VA), COM35 (for 3WL) or PAC3200/4200
- Android version required for mobile devices such as smartphones or tablets: 6.0 or higher
- Available for downloading free of charge in the Google Play Store



3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

		(Commu	ınic	ation and testing/commiss	ioning	g devi	ces
Selection and orderi	ng data							_
	Version	For mole circuit b Article N 3VA20 3VA21 3VA22	reakers/		Article No. Price www.siemens.com/ per PU product?Article No.	PU (UNIT, SET, M)	PS	PG
24 V module	24 V module	1			3VA9187-0TB50	1 1	1 unit	1CB
3VA9187-0TB50	24 V DC For mounting in the right-hand accessories compartment of the 3VA2 Optional energy supply for the ETU, also includes continuous operation of the ETU display and the metering function of the ETU 8-series		/		3VA9387-0TB50		1 unit	
Communication acce	essories in the molded case circuit breaker							
3VA9187-0TB10	COM060 communication module For mounting in the right-hand accessories compartment of the 3VA2 molded case circuit breaker (including ETU power supply) Communication with the COM800/COM100 breaker data server via the 3VA-line Including a T-Connector	<u>✓</u> 	/		3VA9187-0TB10 3VA9387-0TB10		1 unit 1 unit	
Breaker data server								
3VA9987-0TA10	COM800 breaker data server 2 terminating resistors Central communication module for connecting up to eight 3VA2 molded case circuit breakers via the 3VA-line Ethernet 10/100 Mbps interface Module slot for plugging on an optional PROFIBUS DP or PROFINET module				3VA9987-0TA10	1	1 unit	1CB
3VA3307-01A10	COM100 breaker data server				3VA9987-0TA20	1	1 unit	1CB
3VA9987-0TA20	 2 terminating resistors Optimized, central communication module for connecting a 3VA2 molded case circuit breaker via the 3VA-line Ethernet 10/100 Mbps interface Module slot for plugging on an optional PROFIBUS DP or PROFINET module 							
7KM9300-0AB01-0AA0	7KM PAC PROFIBUS DP expansion module • The 7KM PAC PROFIBUS DP expansion module is used for connecting the COM800/COM100 breaker data server, and the 3VA molded case circuit breakers connected to it, to PROFIBUS DPV1. • The 7KM PAC PROFIBUS DP expansion module provides the status and measured quantities of the 3VA molded case circuit breaker for the PROFIBUS DP master. It receives information (e.g. commands) from the PROFIBUS DP master, and forwards this information to the 3VA molded case circuit breaker.				7KM9300-0AB01-0AA0	1	1 unit	1DD
7KM9300-0AE01-0AA0	7KM PAC Switched Ethernet PROFINET expansion module • The 7KM PAC Switched Ethernet PROFINET expansion module is used to connect the COM800/COM100 breaker data server, and the 3VA molded case circuit breakers connected to it, to PROFINET via two Ethernet interfaces. • The 7KM PAC Switched Ethernet PROFINET expansion module provides the status and measured quantities of the 3VA molded case circuit breakers to PROFINET via the PROFINET IO, PROFIenergy and Modbus TCP protocols.				7KM9300-0AE01-0AA0	1	1 unit	1DD
7KM9300-0AM00-0AA0	7KM PAC RS 485 Modbus RTU expansion module The 7KM PAC RS 485 Modbus expansion module is used to connect the COM800/COM100 breaker data server, and the 3VA molded case circuit breakers connected to it, to Modbus RTU. The 7KM PAC RS 485 Modbus expansion module provides the status and measured quantities of the 3VA molded case circuit breaker for the Modbus RTU master. It receives information (e.g. commands) from the Modbus RTU master, and forwards this information to the 3VA molded case circuit breaker.				7KM9300-0AM00-0AA0	1	1 unit	1DD

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

					D :	DII	500	
	Version	S	SD Article No www.sien	o. nens.com/	Price per PU	PU (UNIT,	PS	PG
				Article No.	p	SET,		
						M)		
Accessories for com	manuais estima	C	d					
Accessories for com	T-Connector		3VA9987	0TC10		1	1 unit	10P
OF TO	Spare part		3VA3301	-01010		'	i uiiit	ТСВ
E EO	 Provides spur line feeder to COM060 and loop circuit breaker. 	s through to the next						
3VA9987-0TG10	circuit breaker.							
3VA9907-01010	DIN rail adapter		3VA9987	-0TG11		1	1 unit	1CB
	For snapping the T-Connector onto		0173307	orarr.			1 dilit	TOD
111111111	a DIN rail.							
- TILLY								
3VA9987-0TG11								
	Preassembled T-Connector-to-T-Connector or T-Connector-to-COM800/COM100 connecting							
	• 0.4 m long	· · -	3VA9987	-0TC10		1	1 unit	1CB
	• 1 m long		3VA9987	-0TC20			1 unit	
3VA9987-0TC10	• 2 m long		3VA9987	-0TC30		1	1 unit	1CB
	• 4 m long		3VA9987	-0TC40		1	1 unit	1CB
	Preassembled connecting cable for extending							
	COM060-to-T-Connector spur line connection • 0.4 m long		3VA9987	-0TF20		1	1 unit	1CB
	• 0.8 m long		3VA9987	-0TF10			1 unit	
3VA9987-0TF20	Additional bug terminating registers		3VA9987	0TE10		- 1	5 units	1CP
wool	Additional bus terminating resistors		3VA9901	-01E10		'	o uriils	ЮВ
0\\A0007.0TE10								
3VA9987-0TE10	Voltage tap to external N conductor		3VA9987	-0LIC10		1	1 unit	1CB
	Cable for connecting the neutral point for the me	tering function of	0173307	00010			1 dilit	TOD
	the 8-series ETU, length 1.5 m							
B								
3VA9987-0UC10								
	External current transformer for N conductor Connection of an external current transformer for							
9	the N conductor for 3-pole 3VA2 molded case	• In = 20 100 A	3VA9007				1 unit	
	circuit breakers for 5-series and 8-series ETUs, including connecting cable	• I _n = 160 350 A	3VA9107				1 unit	
1	morading connecting capit	• $I_{\cap} = 400 \dots 630 \text{ A}$	3VA9307	-UNA IU		'	1 unit	ICB
3VA9107-0NA10								
	External current transformer as straight-throu		0)/4.00==	011440			a. 9	100
		• I _n = 25 150 A	3VA9077				1 unit	
		• $I_{\text{n}} = 160 \dots 350 \text{ A}$ • $I_{\text{n}} = 400 \dots 630 \text{ A}$	3VA9177 3VA9377				1 unit 1 unit	
		• I _n = 600 1250 A	3VA9377				1 unit	
May 9	Spare part: cable for connecting external curr		3VA9907				1 unit	
3VA9077-0NA10	for N conductor							

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version	SD	Article No. Price www.siemens.com/ per Ploroduct?Article No.	PU J (UNIT, SET.	PS	PG
		d		M)		
Display		u				
3VA9987-0TD10	 DSP800 display For displaying the status, measured values and parameters of up to 8 3VA2 molded case circuit breakers and for up to 3 devices of 3WL1 size 0 and/or 3VA27 size 1600 A. Connection to the COM800/COM100 via Ethernet for displaying information of the COM800/COM100 and the connected 3VA2 molded case circuit breakers and for up to 3 devices of 3WL1 size 0 and/or 3VA27 size 1600 A. 		3VA9987-0TD10	1	1 unit	1CB
External function be	οx					
	 EFB300 External function box for connection to the ETU of the 3VA2 molded case circuit breakers 4 digital outputs for information output 1 digital input ZSI functionality S0 interface Including cable 1.5 m in length 		3VA9987-0UA10	1	1 unit	1CB
•• ••	Connecting cable for EFB300 Spare part					
3VA9987-0UA10	 Length 1.5 m Length 3.0 m Length 3.0 m for 3VA2 with EFB and RCD820 		3VA9987-0UB10 3VA9987-0UB20 3VA9987-0UB30	1 1 1	1 unit 1 unit 1 unit	1CB
Test devices						
3VA9987-0MA10	 TD300 Connection to the front interface of the ETU Test device for activating the ETU and triggering a test trip 		3VA9987-0MA10	1	1 unit	1CB

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

	Version	SD	Article No. Price www.slemens.com/ product?Article No.	PU (UNIT, SET, M)	PS	PG
		d	01/100000000000000000000000000000000000			100
3VA9987-0MB10	TD500 Connection to the front interface of the ETU Initiation of various test trips (LSING) USB interface for connection of a PC using powerconfig ETU parameterization Including adapter and connecting cable for 3VA2 and IEC 3WL molded case circuit breakers (ETU Release 2) Including case		3VA9987-0MB10	1	1 unit	1CB
3VA3307-0IVID 10	Spare part: external power supply for TD500		3VA9987-0MX10	1	1 unit	1CB
3VA9987-0MX10	Spare part 110 240 V AC					
3VA9987-0MY10	Spare part: cable for connecting the TD500 to the 3VA2 molded case circuit breaker		3VA9987-0MY10	1	1 unit	1CB

3VA Molded Case Circuit Breakers up to 1000 A - accessories, IEC

Locking, blocking and interlocking

Overview

With all types of 3VA molded case circuit breakers, a basic distinction is made between:

- · Locking of molded case circuit breakers
- · Interlocking of molded case circuit breakers

The padlock devices make it possible to lock the 3VA molded case circuit breaker in either the OFF or the ON operating position

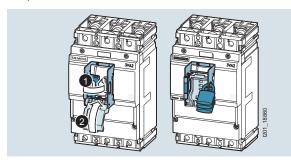
Using the interlocking technology, it is possible to mutually interlock two or more molded case circuit breakers. The interlock system is designed to ensure that no more than one molded case circuit breaker can be operated at a time. The following methods of interlocking can be used on 3VA molded case circuit breakers:

- Front interlock
- Rear interlock

Locking technology

Padlock device for the handle

A padlock device mounted and latched on the handle allows the 3VA molded case circuit breaker to be locked in the OFF or the ON position.

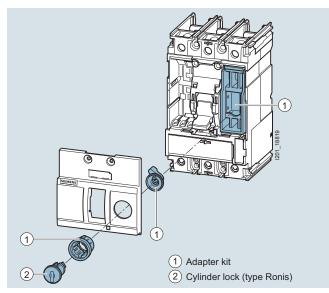


Locking with cylinder lock

The 3VA molded case circuit breaker can also be locked in the OFF (O) or ON (I) position by means of a cylinder lock supplied by Ronis. This prevents further operation of the circuit breaker.

In order to lock a molded case circuit breaker in a specific operating state, the following two components need to be ordered.

- Cylinder lock (type Ronis)
- Lock adapter kit for mounting the cylinder lock in the accessories compartment

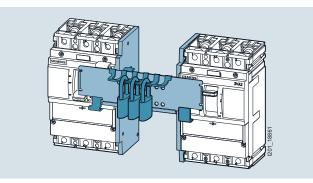


Interlocking technology

Interlocking by means of a sliding bar

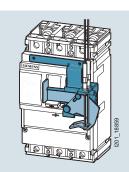
The front sliding bar allows between two and three 3VA molded case circuit breakers of the same size to be mutually interlocked by means of a sliding bar.

With this device, the sliding bar is moved to block the handle of the interlocked molded case circuit breaker. For this reason, a molded case circuit breaker is always locked in the safe OFF position, while the released circuit breaker can still be operated.



Handle interlock using a Bowden cable

With the front Bowden cable interlock, it is possible to implement a mutual interlock between two or three molded case circuit breakers of different sizes. The front Bowden cable interlock operates according to the blocking principle. In order to implement this system, modules for the Bowden cable interlock must be mounted on the molded case circuit breakers to be included in the interlock arrangement. Each of these modules is equipped with a slide which blocks or releases operation of the handle.



Interlocking with cylinder locks

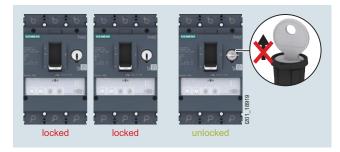
Using the cylinder lock (type Ronis), it is not only possible to lock a molded case circuit breaker, but also to create an interlock between an optional number of molded case circuit breakers of different sizes. To implement an interlocking application using cylinder locks, the adapter kit with the cylinder lock (type Ronis) must be fitted in the right-hand accessories compartment of each molded case circuit breaker to be included in the interlock arrangement and all breakers must be locked in the OFF position. In order to ensure reliable functioning of the interlock, only one key may be used for the entire interlock application! All other keys must be kept or locked away in a safe place. This one key must be used as the release instrument for only one molded case circuit breaker at a time! To release or operate a molded case circuit breaker, the cylinder lock must be turned to the "Unlocked" position with this one particular key Only then can the handle of the circuit breaker be moved to the ON position. When the cylinder lock is in the "Unlocked" position, the key cannot be removed and must be left in the lock.

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Locking, blocking and interlocking

To implement an interlocking application involving multiple molded case circuit breakers, the following two components must be ordered for each circuit breaker:

- Cylinder lock (type Ronis) with identical key number
- Interlock adapter kit for mounting the cylinder lock in the accessories compartment



Rear interlock

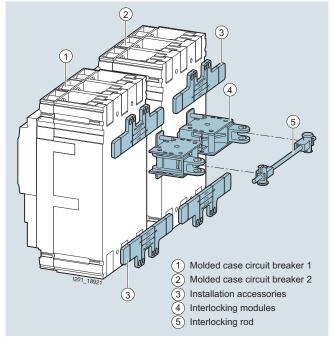
The rear interlock system allows implementation of an interlock without restricting the number of accessories which can be installed at the front of the 3VA molded case circuit breaker. Using the rear interlock, it is possible to create an interlock between two molded case circuit breakers of different sizes based on the blocking principle. When one molded case circuit breaker closes, the other circuit breaker is prevented from closing by a plunger which engages in the breaker mechanism directly from the rear panel of the molded case circuit breaker.

This system requires the installation of two interlocking modules which are mounted behind the molded case circuit breakers and behind the mounting frame of the cubicle. The two interlocking modules are interconnected by means of the interlocking rod.

A mounting frame comprising a plate and two profile rails is available as an accessory to assist installation.

Rear interlock for plug-in or draw-out units

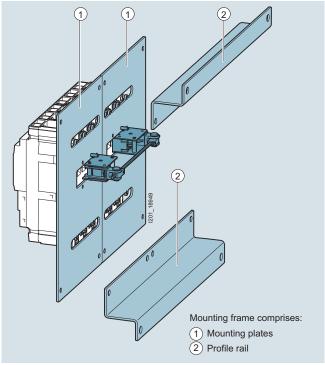
In order to install a rear interlock for plug-in or draw-out versions of the molded case circuit breakers, the plunger needs to be lengthened. The rear interlock for plug-in or draw-out versions is offered as a complete kit.



Rear interlock without mounting frame

Benefits

- Broad range of applications thanks to flexibility of interlocking technology
- Locking technology ensures safe locking of molded case circuit breakers, e.g. for maintenance purposes
- No restriction to use of internal accessories or to scope of accessories installed at the front of the molded case circuit breaker (when a rear interlock is deployed)
- Molded case circuit breakers of different sizes can be mutually interlocked.



Rear interlock with mounting frame

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Locking, blocking and interlocking

Selection and ordering data

	Version		olded ca No. ste		uit break	kers/	SD	Article No. www.siemens.com/ p product?Article No.	Price er PU	PU (UNIT, SET,	PS	PG
		3VA11	3VA12	3VA21	3VA13 3VA14 3VA23 3VA24		d	p. 2000 1 10 1		M)		
Accessories for loc	Adapter kit for mounting the cylinder lock (type Ronis) in the accessories compartment of the molded case circuit breaker Comprising 2 cylinder lock casings (one for locking and one for interlocking) and the appropriate mounting module											
	• To implement an interlock or a lock: select	✓ 						3VA9157-0LF10 3VA9257-0LF10			1 unit 1 unit	
NOZ II y	suitable cylinder lock(s) • For an interlock: select the same cylinder			/				3VA9167-0LF10		1	1 unit	1CB
3VA9167-0LF10	lock number				✓			3VA9367-0LF10			1 unit	
	Cylinder lock (type Ronis) Includes a lock with 2 keys For locking or interlocking For installation in all rotary operators For mounting in the adapter kit for the accessories compartment Versions					√ <mark>NEW</mark>		3VA9587-0LF10		1	1 unit	1CB
9	Key 1 (lock number 1)	/	1	/	/			3VA9980-0VL10		1	1 unit	1CB
	• Key 3 (lock number 3)	/	1	/	✓			3VA9980-0VL30		1	1 unit	1CB
3VA9980-0VL10	• Key 4 (lock number 4)	✓	/	1	✓			3VA9980-0VL40		1	1 unit	1CB
AA	Sliding bar Complete kit for interlocking 2 circuit breakers Note The article number must be ordered 2 x to implement an interlock between 3 breakers of the same size.	 	 ✓	 -/		 		3VA9158-0VF30 3VA9258-0VF30 3VA9168-0VF30		1	1 unit 1 unit 1 unit	1CB
3VA9168-0VF30	Module for handle interlock using a Bowden cable				√			3VA9368-0VF30		1	1 unit	1CB
	Notes	1						3VA9157-0VF10		1	1 unit	1CB
	A separate handle interlock module		✓					3VA9257-0VF10		1	1 unit	1CB
100	is required for each 3VA. • A Bowden cable must be ordered			✓				3VA9167-0VF10		1	1 unit	1CB
2	separately.				✓			3VA9367-0VF10			1 unit	
1						✓ <mark>NEW</mark>		3VA9587-0VF10		1	1 unit	1CB
3VA9167-0VF10												
	Bowden cable											
	Versions							01/40000 01/040			4 11	100
	• Length 1.0 m							3VA9980-0VC10 3VA9980-0VC20			1 unit	
	Length 1.0 m Length 1.5 m							3VA9980-0VC20 3VA9980-0VC30			1 unit	
3VA9980-0VC10	- Longill 1.0 III							01/2000		'	Tunit	100
5W10000 0V0 10	Rear interlock with rod Complete kit for fixed mounting											
3VA9088-0VM10	Note Mounting frames are not included in scope of supply.	1	1	✓	✓			3VA9088-0VM10		1	1 unit	1CB
3VA9088-0VM30	Rear interlock with rod Complete kit for plug-in/draw-out unit Note If plug-in or draw-out technology is used together with the rear interlock with rod, the mounting plates and profile rails cannot be used.	✓ 	1	1	1			3VA9088-0VM30		1	1 unit	1CB

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Locking, blocking and interlocking

	Version	For mo	ldod or	no oiro	uit brook	roro!	en.	Article No.	Price	PU	PS	PG
	version		For molded case circuit breakers/ Article No. stem					www.siemens.com/	per PU	(UNIT,	гэ	FG
		3\/A11	3VA12	3VA20	3VA13	3VA15		product?Article No.		SET, M)		
		0 (7) (1)	07/112	3VA21	3VA14	3VA25						
				3VA22	3VA23 3VA24		d					
- 8	Mounting frame for rear interlock with rod											
Y Y	For fixed mounting only The following are required for the complete mounting frame kit:											
Ve	Versions											
3VA9088-0VK10	Profile rails Contents: 2 units	✓	✓	✓	✓			3VA9088-0VK10		1	1 unit	1CB
3VA3000-0VIX10	Mounting plate One per breaker, depending on size	✓						3VA9158-0VK20		1	1 unit	1CB
	Notes		✓					3VA9258-0VK20		1	1 unit	1CB
	2 mounting plates must be ordered.			✓				3VA9268-0VK20		1	1 unit	1CB
	They are screwed onto the profile rail that can be ordered above. Different breakers can be mutually interlocked.				✓			3VA9468-0VK20		1	1 unit	1CB
3VA9268-0VK20												

	Article No. stem						Article No. www.siemens.com/ product?Article No.	Price per PU	SET,	PS	PG	
		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA14		d			M)		
Accessories for locki	ng											
	Locking devices for toggle levers	1	✓					3VA9088-0LB10		1	1 unit	1CB
				✓	1			3VA9388-0LB10		1	1 unit	1CB
3VA9388-0LB10						✓ NEW		3VA9588-0LB10		1	1 unit	1CB

3VA Molded Case Circuit Breakers up to 1000 A – accessories, IEC

Other

Selection	and	ordering	data
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	Version	For molded case circuit breakers/ Article No. stem 3VA10 3VA12 3VA20 3VA13 3VA15 3VA11 3VA21 3VA14 3VA25 3VA22 3VA23 3VA24				SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET,	PS	PG	
						d			M)			
Cover frame for door	cut-out											
	Cover frame for door cut-out for	_										

3VA9163-0SB10

3VA2			d	3VA9053-0SB10 3VA9053-0SB10 3VA9253-0SB10 3VA9163-0SB10 3VA9503-0SB10 3VA9503-0SB20 3VA9053-0SB20 3VA9163-0SB20 3VA9363-0SB20 3VA9503-0SB20 3VA9503-0SB20 3VA9503-0SB20 3VA954-0SB10 3VA9254-0SB10	SET, M) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 unit
		 		3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB10 3VA9053-0SB20 3VA9253-0SB20 3VA9163-0SB20 3VA9363-0SB20 3VA9503-0SB20 3VA9054-0SB10 3VA9254-0SB10	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 unit
				3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB10 3VA9053-0SB20 3VA9253-0SB20 3VA9163-0SB20 3VA9363-0SB20 3VA9503-0SB20 3VA9054-0SB10 3VA9254-0SB10	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 unit
				3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB10 3VA9053-0SB20 3VA9253-0SB20 3VA9163-0SB20 3VA9363-0SB20 3VA9503-0SB20 3VA9054-0SB10 3VA9254-0SB10	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 unit
				3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB10 3VA9053-0SB20 3VA9253-0SB20 3VA9163-0SB20 3VA9363-0SB20 3VA9503-0SB20 3VA9054-0SB10 3VA9254-0SB10	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 unit
				3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB10 3VA9053-0SB20 3VA9253-0SB20 3VA9163-0SB20 3VA9363-0SB20 3VA9503-0SB20 3VA9054-0SB10 3VA9254-0SB10	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 unit
				3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB10 3VA9053-0SB20 3VA9253-0SB20 3VA9163-0SB20 3VA9363-0SB20 3VA9503-0SB20 3VA9054-0SB10 3VA9254-0SB10	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 unit
/ 				3VA9163-0SB10 3VA9383-0SB10 3VA9503-0SB10 3VA9053-0SB20 3VA9253-0SB20 3VA9163-0SB20 3VA9363-0SB20 3VA9503-0SB20 3VA9054-0SB10 3VA9254-0SB10	1 1 1 1 1 1 1 1 1 1	1 unit
	/ /	 		3VA9383-0SB10 3VA9503-0SB10 3VA9053-0SB20 3VA9253-0SB20 3VA9163-0SB20 3VA9363-0SB20 3VA9503-0SB20 3VA9054-0SB10 3VA9254-0SB10	1 1 1 1 1 1 1 1 1	1 unit
 		✓		3VA9503-0SB10 3VA9053-0SB20 3VA9253-0SB20 3VA9163-0SB20 3VA9363-0SB20 3VA9503-0SB20 3VA9054-0SB10 3VA9254-0SB10	1 1 1 1 1 1 1 1	1 unit
 	 			3VA9053-0SB20 3VA9253-0SB20 3VA9163-0SB20 3VA9363-0SB20 3VA9503-0SB20 3VA9054-0SB10 3VA9254-0SB10	1 1 1 1 1 1 1 1	1 unit
 	 	 		3VA9253-0SB20 3VA9163-0SB20 3VA9363-0SB20 3VA9503-0SB20 3VA9054-0SB10 3VA9254-0SB10	1 1 1 1 1 1	1 unit
 /	 / /	 		3VA9163-0SB20 3VA9363-0SB20 3VA9503-0SB20 3VA9054-0SB10 3VA9254-0SB10	1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit
 	 /	 / 		3VA9363-0SB20 3VA9503-0SB20 3VA9054-0SB10 3VA9254-0SB10	1 1 1	1 unit 1 unit 1 unit 1 unit
 -/		 		3VA9503-0SB20 3VA9054-0SB10 3VA9254-0SB10	1 1 1	1 unit 1 unit 1 unit
	 -/	 		3VA9054-0SB10 3VA9254-0SB10	1	1 unit 1 unit
	 -/			3VA9254-0SB10	1	1 unit
1	 ✓					
	1		_			1 unit
				3VA9164-0SB10 3VA9384-0SB10	1	1 unit 1 unit
				3VA9504-0SB10	1	1 unit
				3VA9054-0SB20	1	1 unit
			_	3VA9054-0SB20	1	1 unit
/			_	3VA9164-0SB20	1	1 unit
	/			3VA9364-0SB20	1	1 unit
		/		3VA9504-0SB20	1	1 unit
			_	3VA9053-0SB20	1	1 unit
1			_	3VA9257-0SB30	1	1 unit
	/			3VA9387-0SB30	1	1 unit
√ NE\			_	3VA9167-0SB30	1	1 unit
INL	VV					
				3VA9053-0SB10	1	1 unit
✓			_	3VA9253-0SB10	1	1 unit
	√			3VA9303-0SB40	1	1 unit
			_	3VA9054-0SB10	1	1 unit
✓			_	3VA9254-0SB10	1	1 unit
	√			3VA9304-0SB40	1	1 unit
			_			1 unit
			_			1 unit
			_			1 unit
✓						1 unit
			_			1 unit
						1 unit
 			_			1 unit
	 		/		3VA9053-0SB10 3VA9253-0SB10 3VA9163-0SB10 3VA9383-0SB10 3VA9383-0SB10 3VA9503-0SB50 3VA9503-0SB50 3VA9253-0SB20	3VA9053-0SB10 1 3VA9253-0SB10 1 3VA9253-0SB10 1 3VA9163-0SB10 1 3VA9383-0SB10 1 / 3VA9503-0SB50 1 / 3VA9503-0SB50 1 3VA9253-0SB20 1



3VA9087-0SX10

3VA Molded Case Circuit Breakers up to 1000 A - accessories, IEC

Other

	Version			e circuit b	oreakers/	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	`SET,	PS	PG
		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA14	d			M)		
Adapter for DIN	I rails for 3VA1 molded case circuit breakers										
	Adapter for DIN rails for 3VA1 molded case circuit breakers	_									
	Versions										
	• 1-pole ¹⁾	1					3VA9181-0SH10		1	1 unit	1CB
	• 2-pole	✓					3VA9182-0SH10		1	1 unit	1CB
	• 3 and 4-pole	1					3VA9187-0SH10		1	1 unit	1CB

3VA9187-0SH20

1 1 unit 1CB

3VA9187-0SH10 Adapter for 60 mm busbar system (8US)



Busbar adapter systems with 40 mm or 60 mm busbar center-to-center spacing with components for busbar runs, adapters and switching device holders for individual equipment possibilities, devices with an integrated adapter, as well as accessories and flat copper profiles. Observe the short-circuit strength of the busbar system. Short-circuit strength greater than 50 kA on request.

• 3 and 4-pole in conjunction with RCD310 or RCD510

For more information, see chapter "Busbar Systems"

Mounting screv	w kit						
3VA9111-0SS10	Mounting screw kit						
	Versions						
	 For fixed-mounted molded case circuit breakers 						
	- 1-pole	/				3VA9111-0SS10	1 1 unit 1CB
	 2 and 3-pole (apart from 125 A/160 A with 55 kA and 70 kA) 	1	1			3VA9116-0SS10	1 1 unit 1CB
	 3-pole (125 A/160 A with 55 kA and 70 kA) and 4-pole 	1	1			3VA9114-0SS10	1 1 unit 1CB
	- 3-pole			1		3VA9126-0SS10	1 1 unit 1CB
	- 4-pole			1		3VA9124-0SS10	1 1 unit 1CB
	- 3 and 4-pole				✓	3VA9328-0SS10	1 1 unit 1CB
	For plug-in units	/	1			3VA9114-0SS10	1 1 unit 1CB
	For plug-in and draw-out units		1			3VA9114-0SS10	1 1 unit 1CB
				1		3VA9124-0SS10	1 1 unit 1CB
					✓	3VA9328-0SS10	1 1 unit 1CB
	For 3VA15/3VA25 molded case circuit breakers:						
	Spare part 4 screws 4 nuts metric thread					3VA9517-0SS10	1 1 unit 1CB

 $^{^{\}rm 1)}$ For 3VA1 molded case circuit breakers, 160 A 1-pole up to 25 kA