

## Molded Case Circuit Breakers



For more information on  
3VL acc. to UL  
see [Catalog LV 16](#)



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#### For further technical product information:

Siemens Industry Online Support:  
[www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)

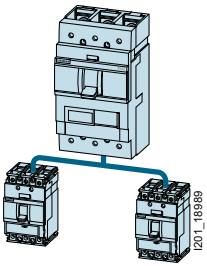
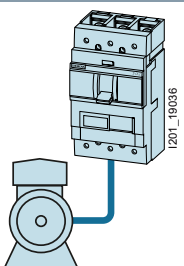
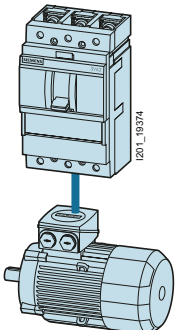

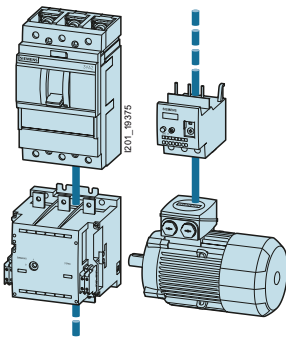

→ Entry type:  
Application example  
Certificate  
Characteristic  
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Product note  
Software archive  
Technical data

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers

#### General data

#### Overview

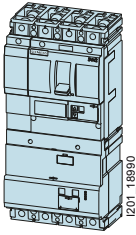
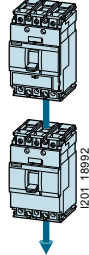
Application	Page	3VA1	3VA2	Description	Standards
<b>Line protection</b>					
	2/16 ... 2/37 2/42 ... 2/71	✓	✓	<p>The trip units for line protection are designed to provide overload and short-circuit protection for:</p> <ul style="list-style-type: none"> <li>• Cables</li> <li>• Leads</li> <li>• Non-motor loads</li> </ul>	IEC / EN 60947-1, IEC / EN 60947-2
<b>Generator protection</b>					
	2/48 ... 2/55 2/64 ... 2/71	--	✓	<p>The setting values of the trip units are matched to protecting generators.</p>	IEC / EN 60947-1, IEC / EN 60947-2
<b>Motor protection</b>					
	2/74 ... 2/75	--	✓	<p>The overload and short-circuit releases are designed for optimized protection and direct-on-line starting of induction squirrel-cage motors. The molded case circuit breakers for motor protection have phase-failure sensitivity and a thermal image that protects the motor against overheating. The adjustable time lag class enables users to adjust the overload release to the startup conditions of the motor to be protected.</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Are you IE3/IE4 ready?</div>  </div>	IEC / EN 60947-1, IEC / EN 60947-2, IEC / EN 60947-4-1 IE3 ready
<b>Protection for starter combinations (starter protection)</b>					
	2/38 ... 2/39 2/74 ... 2/75	✓	✓	<p>Starter combinations consist of: Molded case circuit breaker + contactor + overload relay.</p> <p>The molded case circuit breaker handles short-circuit protection and the isolating function. The task of the contactor is the operational switching of the feeder. The overload relay handles overload protection that can be specially matched to the motor. The molded case circuit breaker for the starter combination is therefore equipped with an adjustable and instantaneous short-circuit release.</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Are you IE3/IE4 ready?</div>  </div>	IEC / EN 60947-1, IEC / EN 60947-2, IEC / EN 60947-4-1 IE3 ready



## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers

#### General data

Application	Page	3VA1	3VA2	Description	Standards
<b>Residual current protection</b> 	2/114 ... 2/116	✓	✓	Residual current protective devices afford fault protection (formerly referred to as: Protection in case of indirect contact) and supplementary protection (formerly referred to as: Protection in case of direct contact) in low-voltage systems in the event of the basic insulation failing or live parts being touched. Their task is to prevent or reduce injury to personnel or livestock, or damage to property.	IEC / EN 60947-2 (Annexes B, M)
<b>Switch disconnectors</b> 	2/40	✓	--	Switch disconnectors are deployed: <ul style="list-style-type: none"> <li>• As main disconnecting means</li> <li>• For on/off switching</li> <li>• For disconnection of loads</li> <li>• As switch disconnectors without overload and short-circuit protection</li> </ul> The switch disconnectors comply with IEC / EN 60947-3.	IEC / EN 60947-1, IEC / EN 60947-3

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers

#### General data

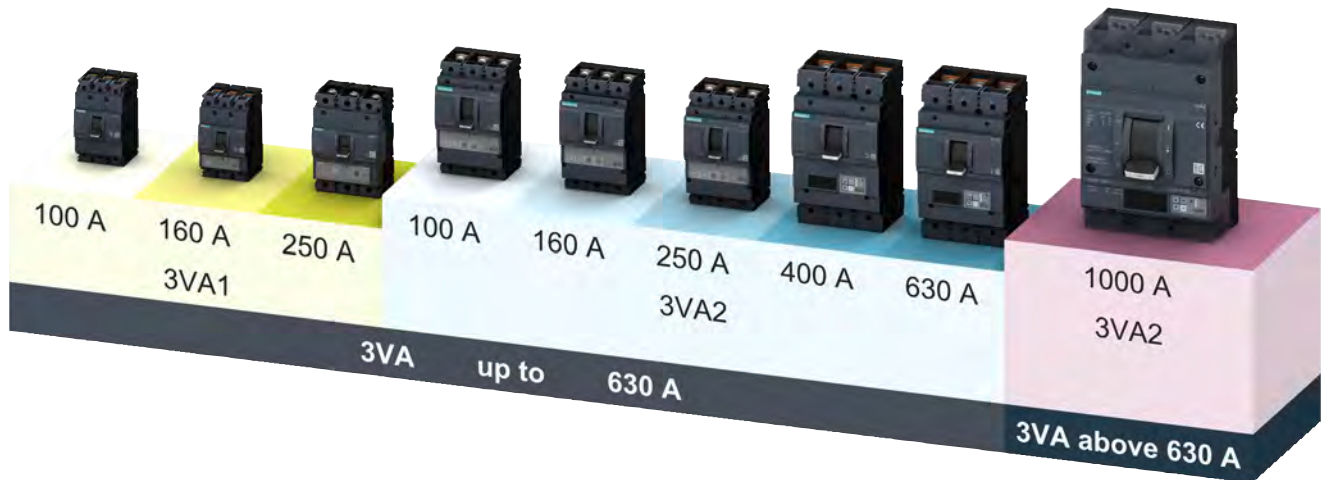
##### Sizes

The integrated 3VA portfolio consists of two different ranges of molded case circuit breakers in nine frame sizes. The 1000 A frame size of the 3VA2 molded case circuit breaker is new.

The 3VA molded case circuit breakers set new standards in flexibility and the variety of modular accessories available. Standardized accessories suitable for use with several sizes of circuit breaker from all the 3VA ranges help to cut costs and save time.

The 3VA1 molded case circuit breakers are available in 1 to 4-pole versions (3VA1 160 A) or in 3 and 4-pole versions (3VA1 100 A and 250 A). The 3VA2 molded case circuit breakers are available in 3 and 4-pole versions.

The circuit breakers are available with rated operational currents ranging from 16 A to 1000 A and rated voltages up to 690 V AC, depending on the range and frame size.



##### Integrated system

When it comes to operation, functionality and installation, the 3VA range of molded case circuit breakers is a fully integrated system. This principle is embodied in the basic units and in all internal and external accessories.

The benefits offered by the internal and external accessories available for the 3VA molded case circuit breakers are:

- Standardized methods of operation
- Standardized scope of functions
- Standardized installation procedures
- Uniform accessories from 100 A ... 1000 A (e.g. auxiliary switches, auxiliary releases, etc.)

##### 3VA1 molded case circuit breakers

The 3VA1 molded case circuit breakers reliably perform all the tasks required for line protection.

##### Features

The key features of the 3VA1 range are:

- Compact design
- Depending on size: 1-pole to 4-pole versions
- Depending on size: Breaking capacity of 16 kA ... 70 kA at 415 V, 3 or 4-pole breakers and 36 kA at 240 V, 1-pole breakers
- Fixed-mounted, plug-in version (depending on size)
- Thermal-magnetic trip units
- AC/DC applications
- No derating up to +50 °C
- Modular and easy-to-fit internal accessories with diverse functions
- Uniform accessories platform across all 3VA molded case circuit breakers

##### Compact dimensions

Thanks to a mounting depth of 70 mm and a cover size of 45 mm, the 3VA1 molded case circuit breakers of sizes 100 A, 160 A and 250 A are predestined for protecting cables and lines in the plant area, especially for the electrical installation area. For these applications, there is also a wide range of accessories available such as adapters for installation on DIN rails, as well as residual current devices (RCD310 (up to 160 A) and RCD510) that can be side-mounted.

##### Thermal-magnetic trip unit

A thermal-magnetic principle trip unit is the basic trip unit for providing overload and short-circuit protection. This has been developed for implementing economical, cost-efficient installations up to 250 A. It is suitable for use in three-phase networks, AC networks, 400 Hz applications, and with DC currents.

### 3VA2 molded case circuit breakers

The 3VA2 molded case circuit breakers reliably perform all the tasks required for line protection, generator protection, motor protection and protection of starter combinations.

This range is designed for applications with increased requirements:

- Increased breaking capacity
- Very good selective protection response
- Integrated metering function
- Connection to a communication system

#### Features

The most important features of the 3VA2 series are:

- Compact dimensions
- 3 and 4-pole versions
- 6 sizes (1000 A **NEW**)
- Four breaking capacity classes from 55 kA ... 150 kA (depending on size)
- Fixed-mounting, plug-in technology, draw-out technology
- Depending on size: Selective protection response in rated operational current interval 1 : 2.5
- Electronic Trip Units
- Retrofittable communication for ETU 5-series and 8-series
- Depending on the ETU: Integrated metering function
- AC applications
- Modular and easy-to-fit internal accessories with diverse functions
- Uniform accessories platform across all 3VA molded case circuit breakers

#### Compact dimensions with function expansions

In addition to its expanded functionality, the 3VA2 molded case circuit breaker also comes with compact dimensions for fixed mounting, as a plug-in version (up to 630 A) and a draw-out version (up to 630 A).

A cover size of 70 mm (up to 630 A) for the door cut-out and a complete selection of breaking capacity classes from 55 kA to 150 kA (depending on size) at 415 V provide the necessary flexibility for planning.

Despite its compact size, the circuit breaker offers the following benefits:

- Extremely high breaking capacity
- Extremely good selectivity
- Electronic trip units, versions with and without integrated metering function and optional communication interface

#### Selective contact system (up to 630 A)

With its contact system, the 3VA2 molded case circuit breaker is designed for fast selectivity tripping. The selective contact system ensures the following:

- Dynamic instantaneous short-circuit range
- High breaking capacity
- Selective protection response of the molded case circuit breakers in relation to each other
- Selective protection response of the molded case circuit breakers in relation to other protection devices such as downstream low-voltage fuses, etc.

#### Electronic Trip Units (ETUs)

The current sensor of the 3VA2 comprises an iron-cored transformer for the internal power supply and a Rogowski coil for precise current measurement. Each transformer can be optimized accordingly for its specific task. Thanks to the high accuracy of current measurement, the 3VA2 molded case circuit breaker is suitable for power/energy measurement. In addition, finer adjustment of ground fault current monitoring is possible.

The Electronic Trip Units (ETUs) provide the following protection functions:

- Overload protection L ("L" = Long-time delay)
- Short-time delayed short-circuit protection S ("S" = Short-time delay) for time-selective response in case of a short circuit
- Instantaneous short-circuit protection I ("I" = Instantaneous)
- Protection of the neutral conductor N against overload and short circuit ("N" = Neutral)
- Protection against residual currents to ground G ("G" = Ground fault)
- ELISA:  
Improved selective grading of downstream LV HRC fuses and upstream molded case circuit breakers by means of a special form of current-time characteristic

#### Energy management and communication

The Electronic Trip Units (ETUs) provide the following energy management and communication functions:

- Metering function
- Communication
- Flexible, local, digital inputs and outputs via the EFB300 external function box
- Software commissioning support with powerconfig
- Testing and archiving with the TD300 and TD500 test devices (with powerconfig)

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers

#### General data

#### 3VA up to 630 A

2



Type	3VA10	3VA11			3VA12	3VA20
Number of poles	3, 4	1	2	3, 4	3, 4	3, 4

#### 3VA1 molded case circuit breakers for line protection, standard applications

#### Molded case circuit breakers

Electrical characteristics according to IEC 60947-2							
Size	100 A	160 A	160 A	160 A	250 A	100 A	
Rated operational current $I_n$ at 50 °C ambient temperature	A	16 ... 100	16 ... 160	16 ... 160	16 ... 160	160 ... 250	25 ... 100
Rated operational voltage $U_e$ 50/60 Hz AC	V	690	415	415	690	690	690
Rated insulation voltage $U_i$	V	800	500	500	800	800	800
Rated impulse withstand voltage $U_{imp}$	kV	8	8	8	8	8	8
Use in IT networks		✓	✓	✓	✓	✓	✓
Frequency	Hz	0 ... 400	0 ... 400	0 ... 400	0 ... 400	0 ... 400	50 ... 60

Breaking capacity		(B)	(N)	(S)	(N)	(S)	(M)	(N)	(S)	(M)	(N)	(S)	(M)	(H)	(S)	(M)	(H)	(M)	(H)	(C)	(L)
<b>Rated ultimate short-circuit breaking capacity <math>I_{cu}</math></b> RMS value, according to IEC 60947-2																					
220 - 240 V AC / 50/60 Hz	kA	25	36	55	25	36	55	36	55	85	36	55	85	100	55	85	100	85	110	150	200
380 - 415 V AC / 50/60 Hz	kA	16	25	36	5	6	6	25	36	55	25	36	55	70	36	55	70	55	85	110	150
440 V AC / 50/60 Hz	kA	8	16	25	--	--	--	--	--	--	16	25	36	55 <sup>1)</sup>	25	36	36	55	85	110	150
500 V AC / 50/60 Hz	kA	5	5	7	--	--	--	--	--	--	7	7	10	10	10	15	15	36	55	85	100
690 V AC / 50/60 Hz	kA	5	5	7	--	--	--	--	--	--	7	7	10	10	7	10	10	2	2	2	25
125 V DC (1 switching pole)	kA	--	--	--	16	25	30	16	25	30	--	--	--	--	--	--	--	--	--	--	--
250 V DC (2 switching poles)	kA	25	36	55	--	--	--	36	55	85	36	55	85	100	55	85	100	--	--	--	--
500 V DC (3 switching poles)	kA	25	36	55	--	--	--	--	--	--	36	55	85	100	55	85	100	--	--	--	--
600 V DC (4 switching poles)	kA	8	16	25	--	--	--	--	--	--	16	25	36	55	25	36	55	--	--	--	--
<b>Rated service short circuit breaking capacity <math>I_{cs}</math></b> rms value, according to IEC 60947-2																					
220 - 240 V AC / 50/60 Hz	kA	25	36	55	25	36	55	36	55	85	36	55	85	100	55	85	100	85	110	150	200
380 - 415 V AC / 50/60 Hz	kA	16	25	36	5	6	6	25	36	55	25	36	55	70	36	55	70	55	85	110	150
440 V AC / 50/60 Hz	kA	8	16	25	--	--	--	--	--	--	16	25	36	40 <sup>1)</sup>	25	36	36	55	85	110	150
500 V AC / 50/60 Hz	kA	5	5	5	--	--	--	--	--	--	5	5	5	5	10	10	10	36	55	85	100
690 V AC / 50/60 Hz	kA	5	5	5	--	--	--	--	--	--	5	5	5	5	5	5	5	2	2	2	18
125 V DC (1 switching pole)	kA	--	--	--	16	25	30	16	25	30	--	--	--	--	--	--	--	--	--	--	--
250 V DC (2 switching poles)	kA	25	36	55	--	--	--	36	55	85	36	55	85	100	55	85	100	--	--	--	--
500 V DC (3 switching poles)	kA	25	36	55	--	--	--	--	--	--	36	55	85	100	55	85	100	--	--	--	--
600 V DC (4 switching poles)	kA	8	16	25	--	--	--	--	--	--	16	25	36	55	25	36	55	--	--	--	--

✓ Available -- Not available \* On request

1)  $I_n$  125 A, 160 A;  $I_{cu} / I_{cs} = 36$  kA / 36 kA

2)  $I_n$  400/500 A;  $I_n$  630 A:  $I_{cs} = 65$  kA

# Molded Case Circuit Breakers

## 3VA Molded Case Circuit Breakers

General data

3VA up to 630 A

3VA over 630 A **NEW**



3VA21	3VA22	3VA23	3VA24	3VA25
3, 4	3, 4	3, 4	3, 4	3, 4
<b>3VA2 for line protection, selectivity applications</b>				

160 A	250 A	400 A	630 A	1000 A
25 ... 160	160 ... 250	250 ... 400	400 ... 630	630 ... 1000
690	690	690	690	690
800	800	800	800	800
8	8	8	8	8
✓	✓	✓	✓	✓
50 ... 60	50 ... 60	50 ... 60	50 ... 60	50 ... 60

M	H	C	L	M	H	C	L	M	H	L	M	H	C	L	M	H	C	
85	110	150	200	85	110	150	200	85	110	150	*	85	110	150	*	85	110	200
55	85	110	150	55	85	110	150	55	85	110	*	55	85	110	*	55	85	110
55	85	110	150	55	85	110	150	55	85	110	*	55	85	110	*	*	*	*
36	55	85	100	36	55	85	100	36	55	85	*	36	55	85	*	*	*	*
2.5	2.5	2.5	25	3	3	3	25	5	5	5	*	6	6	6	*	25	35	35
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85	110	150	200	85	110	150	200	85	110	150	*	85	110	150	*	85	110	150
55	85	110	150	55	85	110	150	55	85	110	*	55	85	110	*	55	85	110
55	85	110	150	55	85	110	150	55	85	110	*	55	85	110	*	*	*	*
36	55	85	100	36	55	85	100	36	55	65	*	36	55	85 <sup>2)</sup>	*	*	*	*
2.5	2.5	2.5	18	3	3	3	18	5	5	5	*	6	6	6	*	19	19	19
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## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers

#### General data

3VA up to 630 A

2



Type		3VA10	3VA11	3VA11	3VA11	3VA12	3VA20	
<b>3VA1 molded case circuit breakers for line protection, standard applications</b>							<b>Molded case circuit breakers</b>	
<b>Service life (make-break operations)</b>								
Mechanical		20000 <sup>1)</sup>	20000 <sup>1)</sup>	20000 <sup>1)</sup>	20000 <sup>1)</sup>	20000 <sup>1)</sup>	20000	
Electrical	380 ... 415 V	8000	8000	8000	8000	8000	12000	
Trip units	FTFM TM210	✓	✓	✓	✓	--	--	
	ATFM TM220	--	--	--	✓	--	--	
	ATAM TM240	--	--	--	✓	✓	--	
	LI ETU320	--	--	--	--	--	✓	
	LIG ETU330	--	--	--	--	--	✓	
	ELISA LI ETU340	--	--	--	--	--	✓	
	LSI ETU350	--	--	--	--	--	✓	
	LSI ETU550/ETU850	--	--	--	--	--	✓	
LSIG ETU560/ETU860	--	--	--	--	--	✓		
<b>3VA1 molded case circuit breakers for starter protection (IEC 60947-4-1 standards and specifications acc. to AC-1)</b>							<b>Molded case circuit breakers</b>	
Rated operational current $I_n$ at 50 °C ambient temperature	A	--	--	--	32 ... 125	160, 200	--	
<b>Service life (make-break operations)</b>								
Mechanical		20000 <sup>1)</sup>	20000 <sup>1)</sup>	20000 <sup>1)</sup>	20000 <sup>1)</sup>	20000 <sup>1)</sup>	--	
Electrical	380 ... 415 V	8000	8000	8000	8000	8000	--	
Trip units	AM TM120M	--	--	--	✓	✓	--	
	I ETU310M	--	--	--	--	--	--	
	LSI ETU350M	--	--	--	--	--	--	
	LSIG ETU860M	--	--	--	--	--	--	
<b>Switch disconnectors</b>								
<b>Electrical characteristics according to IEC 60947-3</b>								
Number of poles		--	--	--	3, 4	3, 4	--	
Rated uninterrupted current $I_U$ at 50 °C ambient temperature	A	--	--	--	63 ... 160	250	--	
Rated operational voltage $U_e$ 50/60 Hz AC	V	--	--	--	690	690	--	
Rated operational voltage $U_e$ DC	V	--	--	--	500 (3p)/ 600 (4p)	500 (3p)/ 600 (4p)	--	
Rated short-circuit making capacity $I_{cn}$ with upstream circuit breaker	kA	--	--	--	70 kA at 415 V	70 kA at 415 V	--	
Permissible rated short-time current $I_{cw}$	±1s kA	--	--	--	2	3	--	
<b>Dimensions</b>								
	A	mm	76.2 (3p)/ 101.6 (4p)	25.4	50.8	76.2 (3p)/ 101.6 (4p)	105 (3p)/ 140 (4p)	105 (3p)/ 140 (4p)
	B	mm	130	130	130	130	158	181
	C	mm	70	70	70	70	70	86
	D	mm	88	88	88	88	88	107
Weight	1-pole nut keeper kit	kg	--	0.35	--	--	--	--
	2-pole nut keeper kit	kg	--	--	0.60	--	--	--
	3-pole nut keeper kit	kg	0.90	--	--	0.90	1.8	2.29
	4-pole nut keeper kit	kg	1.15	--	--	1.15	2.3	2.94
<b>General information</b>								
Standards and specifications		IEC 60947-2, -3, -4	IEC 60947-2, -3, -4	IEC 60947-2, -3, -4	IEC 60947-2, -3, -4	IEC 60947-2, -3, -4	IEC 60947-2, -3, -4	
Utilization category according to IEC 60947-2		A	A	A	A	A	A	
Power and infeed direction		Top and bottom						Top and bottom
Isolating features according to IEC 60947		✓	✓	✓	✓	✓	✓	

✓ Available

-- Not available

<sup>1)</sup> Mechanical operations ON - OFF



## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers

General data

3VA up to 630 A

3VA over 630 A **NEW**

3VA21

3VA22

3VA23

3VA24

3VA25

**3VA2 for line protection, selectivity applications**

20000	20000	15000	15000	10000
12000	10000	6000	4000	5000
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓
✓	✓	✓	✓	✓

**3VA2 for motor/starter protection (standards and specifications 60947-4-1 acc. to AC-1)**

25 ... 100	160 ... 200	250	400 ... 500	--
20000	20000	15000	15000	--
12000	10000	6000	4000	--
--	--	--	--	--
✓	✓	✓	✓	--
✓	✓	✓	✓	--
✓	✓	✓	✓	--

--	--	--	--	--
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105 (3p)/140 (4p)	105 (3p)/140 (4p)	138 (3p)/184 (4p)	138 (3p)/184 (4p)	210 (3p)/280 (4p)
181	181	248	248	320
86	86	110	110	120
107	107	137	137	253
--	--	--	--	--
--	--	--	--	--
2.29	2.41	4.3	4.3	11.35
2.94	3.09	4.8	4.8	15.42

IEC 60947-2, -3, -4	IEC 60947-2, -3, -4	IEC 60947-2, -3, -4	IEC 60947-2, -3, -4	IEC 60947-2
A	A	A	A/B <sup>1)</sup>	A
Top and bottom	Top and bottom	Top and bottom	Top and bottom	Top and bottom
✓	✓	✓	✓	✓

<sup>1)</sup> Utilization category B only for 400 A and 500 A and the trip units of the ETU5 and ETU8 series

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers

#### General data

#### Molded case circuit breakers and accessories in the system

The 3VA molded case circuit breakers come with a large portfolio of internal and external accessories that can be installed flexibly in any size of circuit breaker (depending on the type of accessory).

The table below shows the molded case circuit breakers in or on which the accessories can be installed, and the sizes covered by the same accessory component:

Accessories	3VA molded case circuit breakers up to 630 A									3VA above 630 A
	3VA1			3VA2						3VA2
	100	160	250	100	160	250	400	630	1000	
Auxiliary switches and alarm switches										
Auxiliary releases										
Connection technology										
Plug-in technology										
Draw-out technology										
Front mounted rotary operator										
Door mounted rotary operator										
Side wall mounted rotary operator										
Motor operator MO310 (mounted on the side)										
Motor operator MO320 (mounted on the front)										
Locking, blocking and interlocking										
Residual current device (mounted on the side)										
Residual current device (mounted underneath)										
Communications interface										
EFB300										
TD300 and TD500										
Cover frame										
DIN rail adapter										

#### Front terminals



The portfolio of connection components for the molded case circuit breakers includes a large selection of front cable and busbar terminals.

#### Connection technology available from/installed at the factory

All 3VA molded case circuit breakers are available as standard with a nut keeper kit (clip-in nut and clamping screw) at the infeed and load ends.

For units up to size 160 A, a box terminal for direct cable connection can be optionally selected instead of the nut keeper kit. The box terminal is preassembled and installed at the factory.

The connection technology available from/installed at the factory can be selected in the 12th position of the article number of the molded case circuit breaker.

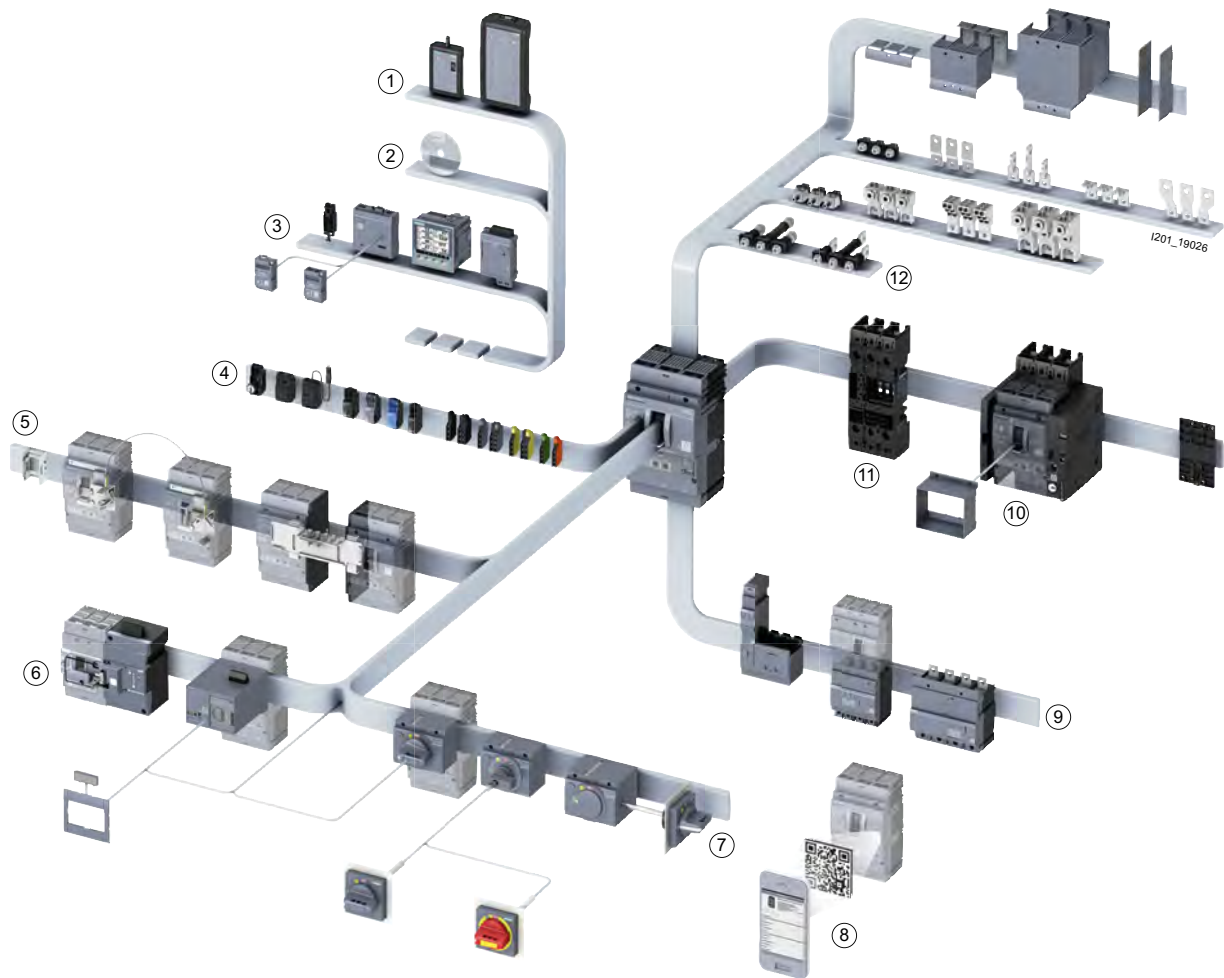
Connection technology	Illustration	3VA1			3VA2					
		100	160	250	100	160	250	400	630	1000
Nut keeper kit		✓	✓	✓	✓	✓	✓	✓	✓	✓
Box terminal		✓	✓	--	✓	✓	--	--	--	--

✓ Available

Insulated busbars and cables with cable lugs can be connected directly to the nut keeper kit. Furthermore, all connection bar extensions are attached to the molded case circuit breaker using the nut keeper kit:

- Front bus connectors extended (phase barriers included in scope of supply)
- Front bus connectors offset (phase barriers included in scope of supply)
- Bus connectors edgewise (phase barriers included in scope of supply)
- Nut keeper kit, right-angled (phase barriers included in scope of supply)

The implementation of insulation measures (phase barriers or terminal covers) is recommended. With some accessory components, insulation measures are essential (and these are included in the scope of supply of the relevant component).



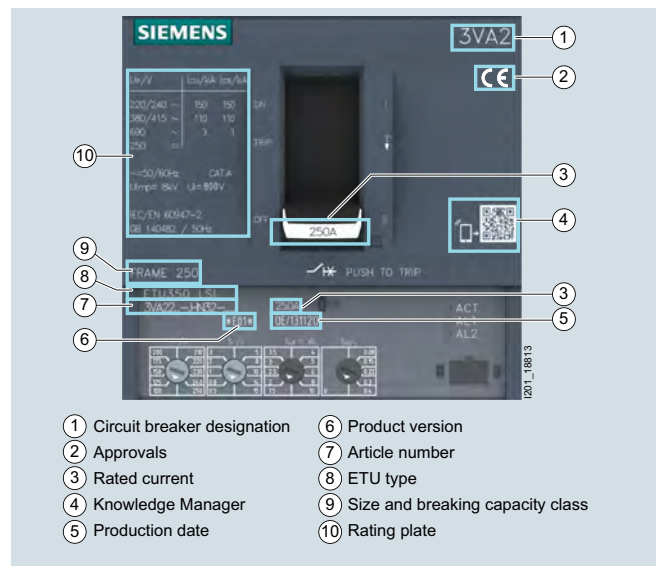
- ① Test devices (page 2/123)
- ② powerconfig software (page 2/123, chapter "Measuring Devices and Power Monitoring" and chapter "Software")
- ③ Communication (pages 2/118 to 2/123)
- ④ Internal accessories (pages 2/76 to 2/83)
- ⑤ Accessories for locking, blocking and interlocking (pages 2/124 to 2/127)
- ⑥ Motor operators (page 2/91)
- ⑦ Manual operators (pages 2/84 to 2/90)
- ⑧ Knowledge Manager (2/11)
- ⑨ Residual current devices (pages 2/114 to 2/116)
- ⑩ Draw-out technology (pages 2/109 to 2/113)
- ⑪ Plug-in technology (pages 2/109 to 2/113)
- ⑫ Connection technology (pages 2/92 to 2/108)

### Knowledge Manager

By reading out the QR code using a smartphone and the "Siemens Industry Online Support" app, it is possible to view key product information via the Internet at any time.

Siemens provides the app free of charge.

Technical information about installation, parameterization or maintenance can be called up directly from the system by QR code on a smartphone.



Front: Inscription

## Molded Case Circuit Breakers

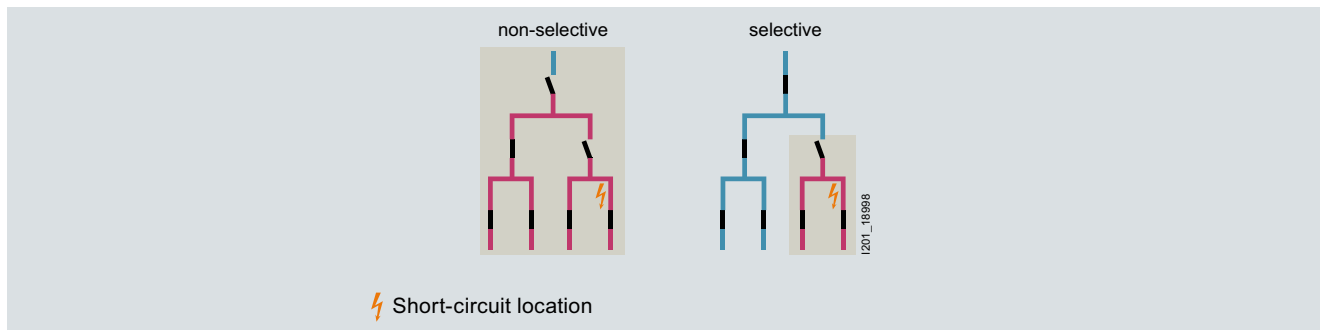
### 3VA Molded Case Circuit Breakers

#### General data

#### Selectivity

Protection devices connected in series, e.g. molded case circuit breakers and fuses, work in a coordinated manner to ensure that protection devices are tripped successively. The closest, upstream protection device before the location of the short-circuit must trip. The other protection devices on the same current run do not trip. The purpose of selectivity is to minimize the effects of a fault in terms of its duration and the area affected by the fault.

Selectivity is achieved when the circuit breakers are matched to each other by means of selection, configuring and trip settings in such a way that, in the event of a fault, only the breaker closest to the location of the fault trips.



#### Selectivity with 3VA2 molded case circuit breakers

The 3VA2 range is designed to deliver excellent selective tripping combined with optimum current limiting and outstanding breaking capacity.

3VA2 molded case circuit breakers have been specifically designed to meet the following requirements:

- System-wide, high selectivity with a rated operational current interval of 1 : 2.5 up to the miniature circuit breaker
- Selectivity in combination with high current limiting and high breaking capacity
- Cost-effective design / configuring of selective power distribution systems

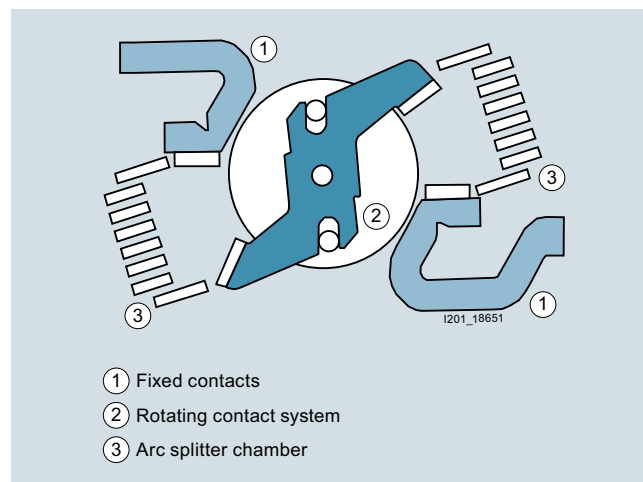
You can find information on selectivity values for the 3VA2 molded case circuit breakers on the Internet under the link for the 3VA documentation

([www.siemens.com/3VA-documentation](http://www.siemens.com/3VA-documentation)).

#### Current limiting

To achieve excellent current limiting, the 3VA molded case circuit breakers are equipped with a rotary double-contact system that opens dynamically on its own above the specified disengaging currents on the principle of magnetic repulsion before the expected peak value of the short-circuit current is reached. These limits have been coordinated and optimized to suit the overall device characteristics. This substantially reduces the thermal and mechanical loading on the molded case circuit breaker.

The switching pole cassettes of the 3VA molded case circuit breakers are optimized for high breaking capacity, and their rotary double-contact system enables extremely good current limiting thanks to the very fast build-up of peak arc voltage generated at both contacts in the event of a short circuit. This results in significant limitation of the let-through energy  $I^2t$  and the expected let-through current  $I_{SC}$ .



### Standards and guidelines

The standards fulfilled by the 3VA molded case circuit breakers include:

- IEC/EN 60947-1
- IEC/EN 60947-2
- IEC/EN 60947-2, Annexes B, M
- IEC/EN 60947-3
- IEC/EN 60947-4-1

### Certificates

You can find information on the available certification (CE, CCC, EHC) on the Internet ([www.siemens.com/lowvoltage/certificates](http://www.siemens.com/lowvoltage/certificates)).

In the Entry List you can use the certificate type (general product approval, explosion protection, test certificates, shipbuilding, etc.) as a filter criterion.

### Operating conditions

- Pollution degree:  
Operation of the 3VA1 and 3VA2 molded case circuit breakers is approved in accordance with IEC / EN 60947-1 and IEC / EN 60664-1 for pollution degree 3.
- Ambient temperature:  
- 3VA molded case circuit breakers are used at ambient temperatures from -25 °C to +70 °C. At temperatures above +50 °C there are reductions in the rated operational current (derating).  
- The permissible storage temperature in original Siemens packaging lies between -40 °C and +80 °C.

### IE3 ready

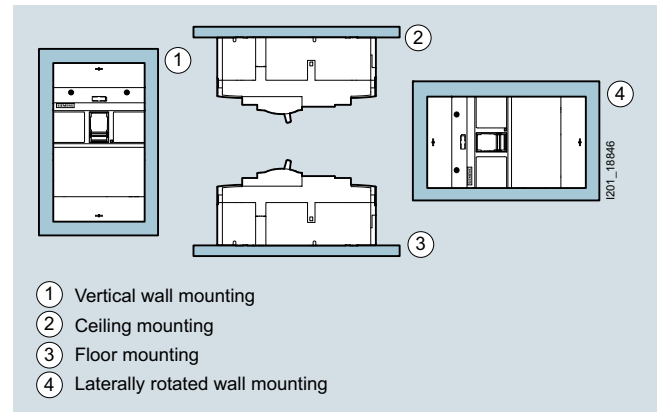
As from January 2015, the energy-efficiency class IE3 will be mandatory, with a few exceptions only, for three-phase asynchronous motors. This will have an effect on motors, low-voltage power distribution and electrical installation technology, as well as industrial controls.

For use of 3VA molded case circuit breakers in conjunction with highly energy-efficient IE3 motors, please observe the information on dimensioning and configuring, see "Configuration Manual for SIRIUS Controls with IE3 Motors", at <https://support.industry.siemens.com/cs/ww/en/view/94770820>.

Are you  
IE3/IE4 ready?



### Permissible mounting positions



Positions in which the 3VA molded case circuit breakers are allowed to be installed

### Further technical specifications

- See manual in SIOS at <https://support.industry.siemens.com/cs/ww/en/view/90318775>

3VA  
Equipment manual



- See communications manual in SIOS at <https://support.industry.siemens.com/cs/ww/en/view/98746267>

3VA Communication  
manual




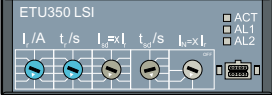


























## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers

#### General data

#### Protection system

##### Description of functions

	Thermal-magnetic TM 2-series	Electronic ETU 3-series	Electronic with display ETU 5-series	Electronic with display and metering function – ETU 8-series
<b>Protection</b>				
Trip units	 <p>Line protection: TM210, TM220, TM240 Starter protection: TM120M</p>	 <p>Line protection: ETU320, ETU330, ETU340, ETU350 Starter protection: ETU310M Motor protection: ETU350M</p>	 <p>Line protection: ETU550, ETU560</p>	 <p>Line protection: ETU850, ETU860 Motor protection: ETU860M</p>
<b>Integrated functions</b>				
Parameterizing	 <p>Setting and reading the parameters in A</p>	 <p>Setting and reading the parameters in A and s</p>	 <ul style="list-style-type: none"> <li>Setting and reading the parameters via display and communication</li> <li>Fine setting of the parameters</li> <li>Reading the measured values</li> </ul>	 <ul style="list-style-type: none"> <li>Setting and reading the parameters via display and communication</li> <li>Fine setting of the parameters</li> <li>Reading the measured values</li> </ul>
Status display	--	 <p>Indicating the ETU status via LEDs</p>	 <p>Indicating the ETU status via LEDs</p>	 <p>Indicating the ETU status via LEDs</p>
Interface	--	 <p>Interface for test devices</p>	 <p>Interface for test devices</p>	 <p>Interface for test devices</p>
Metering function	--	--	--	Metering function integrated
<b>Optional expansions</b>				
--	--	--	 <p>24 V module for continuous power supply (also without primary current through the molded case circuit breaker)</p>	 <p>24 V module for continuous power supply (also without primary current through the molded case circuit breaker)</p>
--	 <p>EFB300 external function box for connecting to the ETU</p>	 <p>EFB300 external function box for connecting to the ETU</p>	 <p>EFB300 external function box for connecting to the ETU</p>	
--	--	--	 <p>COM060 communication module</p>	 <p>COM060 communication module</p>
--	--	--	 <p>COM800/COM100 breaker data server Interface to</p> <ul style="list-style-type: none"> <li>PROFIBUS</li> <li>PROFINET</li> <li>Modbus RTU</li> <li>Ethernet (Modbus TCP)</li> </ul>	 <p>COM800/COM100 breaker data server Interface to</p> <ul style="list-style-type: none"> <li>PROFIBUS</li> <li>PROFINET</li> <li>Modbus RTU</li> <li>Ethernet (Modbus TCP)</li> </ul>
--	--	--	 <p>DSP800 external display for installing in the cubicle door</p>	 <p>DSP800 external display for installing in the cubicle door</p>
--	 <p>TD300/TD500 test device</p>	 <p>TD300/TD500 test device</p>	 <p>TD300/TD500 test device</p>	



## Protection functions of the 3VA1 molded case circuit breakers with thermal-magnetic trip unit

	TM120M AM	TM210 FTFM	TM220 ATFM	TM240 ATAM
<b>Protection</b>				
Starter protection	✓	--	--	--
Line protection	--	✓	✓	✓
<b>Version available with</b>				
1-pole and 2-pole breakers	--	✓	--	--
3-pole breaker	✓	✓	✓	✓
4-pole breaker	--	✓	✓	✓
<b>Available protection parameters</b>				
$I_r$ adjustable	--	--	✓	✓
$I_i$ adjustable	✓	--	--	✓
$I_r$ fixed	--	✓	--	--
$I_i$ fixed	--	✓	✓	--
$I_{N1}$	--	✓	✓	✓

- 1) 3VA10 only without N protection  
 3VA11 without, 50% or 100% N protection  
 50% N protection from  $I_n \geq 100$  A and only in size 160 A

## Protection functions of the 3VA2 with electronic trip unit

	ETU310M I	ETU320 LI	ETU330 LIG	ETU340 ELISA®	ETU350 LSI	ETU350M LSI	ETU550 LSI	ETU560 LSIG	ETU850 LSI	ETU860 LSIG	ETU860M LSIG
<b>Protection</b>											
Starter protection	✓	--	--	--	--	--	--	--	--	--	--
Motor protection	--	--	--	--	--	✓	--	--	--	--	✓
Line protection	--	✓	✓	✓	✓	--	✓	✓	✓	✓	--
Generator protection	--	✓	✓	--	✓	--	✓	✓	✓	✓	--
<b>Version available with</b>											
3-pole without external neutral conductor transformer	✓	✓	✓	✓	✓	✓	--	--	--	--	✓
3-pole with external neutral conductor transformer	--	--	--	--	--	--	✓	✓	✓	✓	--
4-pole with protected neutral conductor transformer	--	✓	✓	✓	✓	--	✓	✓	✓	✓	--
<b>Available protection parameters</b>											
Characteristic in L range	$I^2t$	$I^2t$	$I^2t$	$I^4t$	$I^2t$	$I^2t$	$I^2t$	$I^2t$	$I^2t$	$I^2t$	$I^2t$
$I_r$	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
$t_r$ at $6 \times I_r$	--	✓	✓	--	✓	--	✓	✓	✓	✓	--
$t_c$	--	--	--	--	--	✓	--	--	--	--	✓
$t_p$	--	--	--	--	--	--	--	--	--	--	✓
Thermal image	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thermal image can be switched on/off	--	--	--	--	--	--	✓	✓	✓	✓	--
$I_{sd}$	--	--	--	--	✓	✓	✓	✓	✓	✓	✓
$t_{sd}$ at $8 \times I_r$	--	--	--	--	✓	✓	✓	✓	✓	✓	✓
Characteristic in S range: $I^2t_{sd}$	--	--	--	--	✓	--	✓	✓	✓	✓	--
Characteristic in S range: selectable $I^2t_{sd} / t_{sd}$	--	--	--	--	--	--	✓	✓	✓	✓	--
$I_i$	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
$I_N^{1)}$	--	✓	✓	✓	✓	--	✓	✓	✓	✓	--
$I_g$	--	--	✓	--	--	--	--	✓	--	✓	✓
$t_g$ at $2 \times I_g$	--	--	✓	--	--	--	--	✓	--	✓	✓
Characteristic in G range: $I^2t_g$	--	--	✓	--	--	--	--	✓	--	✓	✓
Characteristic in G range: selectable $I^2t_g / t_g$	--	--	✓	--	--	--	--	✓	--	✓	✓
Ground-fault alarm function	--	--	--	--	--	--	--	✓	--	✓	✓
Blocking protection	--	--	--	--	--	--	--	--	--	--	✓
ZSI in combination with an EFB external function box	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Features and options</b>											
Setting by rotary switch	✓	✓	✓	✓	✓	✓	--	--	--	--	--
Setting by ETU display	--	--	--	--	--	--	✓	✓	✓	✓	✓
Data shown on ETU display	--	--	--	--	--	--	✓	✓	✓	✓	✓
Metering function	--	--	--	--	--	--	--	--	✓	✓	✓
Communication option	--	--	--	--	--	--	✓	✓	✓	✓	✓
Front interface	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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

✓ Available

-- Not available

## Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 250 A, IEC

### Line protection

#### Selection and ordering data

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current

$I_n$

Current setting of the inverse-time delayed overload protection "L"

$I_r$

Operating current of the instantaneous short-circuit protection "I"

$I_i$

SD

$I_{cu}$  up to 25 kA at 240 V, low breaking capacity N  
See "Overview", p. 2/6 and 2/7

(N)

Article No.  
[www.siemens.com/product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)

Basic price per PU

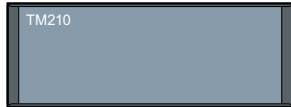
A

A

A

d

1-pole, fixed-mounted, 3VA11, up to 160 A  
Thermal-magnetic trip unit



TM210

i201\_19027

#### Line protection, 1-pole, TM210 FTFM

With fixed overload protection  $I_r$  and fixed short-circuit protection  $I_i$

#### Connection with box terminal

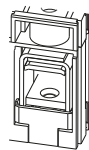
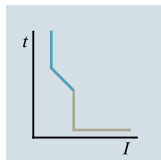
3VA11

16	16	320
20	20	320
25	25	320
32	32	320
40	40	400
50	50	500
63	63	630
80	80	800
100	100	1000
125	125	1250
160	160	1600

3VA1196-3ED16-0AA0  
3VA1120-3ED16-0AA0  
3VA1125-3ED16-0AA0  
3VA1132-3ED16-0AA0

3VA1140-3ED16-0AA0  
3VA1150-3ED16-0AA0  
3VA1163-3ED16-0AA0  
3VA1180-3ED16-0AA0

3VA1110-3ED16-0AA0  
3VA1112-3ED16-0AA0  
3VA1116-3ED16-0AA0



#### Connection with nut keeper kit

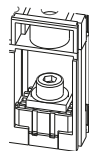
3VA11

16	16	320
20	20	320
25	25	320
32	32	320
40	40	400
50	50	500
63	63	630
80	80	800
100	100	1000
125	125	1250
160	160	1600

3VA1196-3ED12-0AA0  
3VA1120-3ED12-0AA0  
3VA1125-3ED12-0AA0  
3VA1132-3ED12-0AA0

3VA1140-3ED12-0AA0  
3VA1150-3ED12-0AA0  
3VA1163-3ED12-0AA0  
3VA1180-3ED12-0AA0

3VA1110-3ED12-0AA0  
3VA1112-3ED12-0AA0  
3VA1116-3ED12-0AA0



## Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 250 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 36 kA at 240 V, standard breaking capacity S See "Overview", p. 2/6 and 2/7	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Basic price per PU	SD	$I_{cu}$ up to 55 kA at 240 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Basic price per PU
A	d				d	<b>NEW</b>		

**Line protection, 1-pole, TM210 FTFM**With fixed overload protection  $I_r$  and fixed short-circuit protection  $I_s$ **Connection with box terminal**

16	3VA1196-4ED16-0AA0	3VA1196-5ED16-0AA0
20	3VA1120-4ED16-0AA0	3VA1120-5ED16-0AA0
25	3VA1125-4ED16-0AA0	3VA1125-5ED16-0AA0
32	3VA1132-4ED16-0AA0	3VA1132-5ED16-0AA0
40	3VA1140-4ED16-0AA0	3VA1140-5ED16-0AA0
50	3VA1150-4ED16-0AA0	3VA1150-5ED16-0AA0
63	3VA1163-4ED16-0AA0	3VA1163-5ED16-0AA0
80	3VA1180-4ED16-0AA0	3VA1180-5ED16-0AA0
100	3VA1110-4ED16-0AA0	3VA1110-5ED16-0AA0
125	3VA1112-4ED16-0AA0	3VA1112-5ED16-0AA0
160	3VA1116-4ED16-0AA0	3VA1116-5ED16-0AA0

**Connection with nut keeper kit**

16	3VA1196-4ED12-0AA0	3VA1196-5ED12-0AA0
20	3VA1120-4ED12-0AA0	3VA1120-5ED12-0AA0
25	3VA1125-4ED12-0AA0	3VA1125-5ED12-0AA0
32	3VA1132-4ED12-0AA0	3VA1132-5ED12-0AA0
40	3VA1140-4ED12-0AA0	3VA1140-5ED12-0AA0
50	3VA1150-4ED12-0AA0	3VA1150-5ED12-0AA0
63	3VA1163-4ED12-0AA0	3VA1163-5ED12-0AA0
80	3VA1180-4ED12-0AA0	3VA1180-5ED12-0AA0
100	3VA1110-4ED12-0AA0	3VA1110-5ED12-0AA0
125	3VA1112-4ED12-0AA0	3VA1112-5ED12-0AA0
160	3VA1116-4ED12-0AA0	3VA1116-5ED12-0AA0

## Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 250 A, IEC

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2



Connection technology

Type

Rated current  
 $I_n$

Current setting of the inverse-time delayed overload protection "L"  
 $I_r$

Operating current of the instantaneous short-circuit protection "I"  
 $I_i$

SD

**$I_{cu}$  up to 25 kA at 415 V, low breaking capacity N**  
See "Overview", p. 2/6 and 2/7

(N)

Article No.  
[www.siemens.com/product?Article No.](http://www.siemens.com/product?ArticleNo.)

Basic price per PU

A

A

A

d

**2-pole, fixed-mounted, 3VA11, up to 160 A**  
Thermal-magnetic trip unit



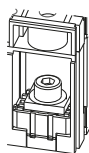
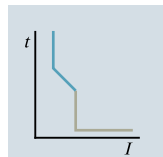
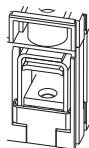
TM210  
I201\_19027

#### Line protection, 2-pole, TM210 FTFM

With fixed overload protection  $I_r$  and fixed short-circuit protection  $I_i$

##### Connection with box terminal

3VA11	$I_n$	$I_r$	$I_i$	Article No.
16	16	16	320	3VA1196-3ED26-0AA0
	20	20	320	3VA1120-3ED26-0AA0
	25	25	320	3VA1125-3ED26-0AA0
	32	32	320	3VA1132-3ED26-0AA0
40	40	40	400	3VA1140-3ED26-0AA0
	50	50	500	3VA1150-3ED26-0AA0
	63	63	630	3VA1163-3ED26-0AA0
	80	80	800	3VA1180-3ED26-0AA0
100	100	100	1000	3VA1110-3ED26-0AA0
	125	125	1250	3VA1112-3ED26-0AA0
	160	160	1600	3VA1116-3ED26-0AA0



##### Connection with nut keeper kit

3VA11	$I_n$	$I_r$	$I_i$	Article No.
16	16	16	320	3VA1196-3ED22-0AA0
	20	20	320	3VA1120-3ED22-0AA0
	25	25	320	3VA1125-3ED22-0AA0
	32	32	320	3VA1132-3ED22-0AA0
40	40	40	400	3VA1140-3ED22-0AA0
	50	50	500	3VA1150-3ED22-0AA0
	63	63	630	3VA1163-3ED22-0AA0
	80	80	800	3VA1180-3ED22-0AA0
100	100	100	1000	3VA1110-3ED22-0AA0
	125	125	1250	3VA1112-3ED22-0AA0
	160	160	1600	3VA1116-3ED22-0AA0

**Molded Case Circuit Breakers**

3VA1 Molded Case Circuit Breakers up to 250 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 36 kA at 415 V, standard breaking capacity S See "Overview", p. 2/6 and 2/7	(S)	SD	$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	(M)
		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d	<b>NEW</b>	

**Line protection, 2-pole, TM210 FTFM**With fixed overload protection  $I_r$  and fixed short-circuit protection  $I_i$ **Connection with box terminal**

16	3VA1196-4ED26-0AA0	3VA1196-5ED26-0AA0
20	3VA1120-4ED26-0AA0	3VA1120-5ED26-0AA0
25	3VA1125-4ED26-0AA0	3VA1125-5ED26-0AA0
32	3VA1132-4ED26-0AA0	3VA1132-5ED26-0AA0
40	3VA1140-4ED26-0AA0	3VA1140-5ED26-0AA0
50	3VA1150-4ED26-0AA0	3VA1150-5ED26-0AA0
63	3VA1163-4ED26-0AA0	3VA1163-5ED26-0AA0
80	3VA1180-4ED26-0AA0	3VA1180-5ED26-0AA0
100	3VA1110-4ED26-0AA0	3VA1110-5ED26-0AA0
125	3VA1112-4ED26-0AA0	3VA1112-5ED26-0AA0
160	3VA1116-4ED26-0AA0	3VA1116-5ED26-0AA0

**Connection with nut keeper kit**

16	3VA1196-4ED22-0AA0	3VA1196-5ED22-0AA0
20	3VA1120-4ED22-0AA0	3VA1120-5ED22-0AA0
25	3VA1125-4ED22-0AA0	3VA1125-5ED22-0AA0
32	3VA1132-4ED22-0AA0	3VA1132-5ED22-0AA0
40	3VA1140-4ED22-0AA0	3VA1140-5ED22-0AA0
50	3VA1150-4ED22-0AA0	3VA1150-5ED22-0AA0
63	3VA1163-4ED22-0AA0	3VA1163-5ED22-0AA0
80	3VA1180-4ED22-0AA0	3VA1180-5ED22-0AA0
100	3VA1110-4ED22-0AA0	3VA1110-5ED22-0AA0
125	3VA1112-4ED22-0AA0	3VA1112-5ED22-0AA0
160	3VA1116-4ED22-0AA0	3VA1116-5ED22-0AA0

## Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 250 A, IEC

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2



Connection technology

Type

Rated current  $I_n$

Current setting of the inverse-time delayed overload protection "L"  $I_r$

Operating current of the instantaneous short-circuit protection "I"  $I_i$

SD

$I_{cu}$  up to 16 kA at 415 V, very low breaking capacity B  
See "Overview", p. 2/6 and 2/7

(B)

Article No.  
[www.siemens.com/product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)

Basic price per PU

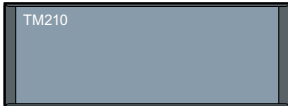
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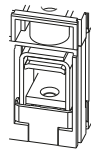
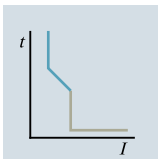
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### 3-pole, fixed-mounted, 3VA10, up to 100 A Thermal-magnetic trip unit



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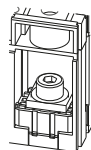


#### Line protection, TM210 FTFM

With fixed overload protection  $I_r$  and fixed short-circuit protection  $I_i$

##### Connection with box terminal

3VA10	$I_n$	$I_r$	$I_i$	Article No.
3VA10	16	16	320	3VA1096-2ED36-0AA0
	20	20	320	3VA1020-2ED36-0AA0
	25	25	320	3VA1025-2ED36-0AA0
	32	32	320	3VA1032-2ED36-0AA0
3VA10	40	40	400	3VA1040-2ED36-0AA0
	50	50	500	3VA1050-2ED36-0AA0
	63	63	630	3VA1063-2ED36-0AA0
	80	80	800	3VA1080-2ED36-0AA0
	100	100	1000	3VA1010-2ED36-0AA0



##### Connection with nut keeper kit

3VA10	$I_n$	$I_r$	$I_i$	Article No.
3VA10	16	16	320	3VA1096-2ED32-0AA0
	20	20	320	3VA1020-2ED32-0AA0
	25	25	320	3VA1025-2ED32-0AA0
	32	32	320	3VA1032-2ED32-0AA0
3VA10	40	40	400	3VA1040-2ED32-0AA0
	50	50	500	3VA1050-2ED32-0AA0
	63	63	630	3VA1063-2ED32-0AA0
	80	80	800	3VA1080-2ED32-0AA0
	100	100	1000	3VA1010-2ED32-0AA0



**Molded Case Circuit Breakers**

3VA1 Molded Case Circuit Breakers up to 250 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 25 kA at 415 V, low breaking capacity N See "Overview", p. 2/6 and 2/7	(N)	SD	$I_{cu}$ up to 36 kA at 415 V, standard breaking capacity S See "Overview", p. 2/6 and 2/7	(S)
A	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU

**Line protection, TM210 FTFM**With fixed overload protection  $I_f$  and fixed short-circuit protection  $I_f$ **Connection with box terminal**

16	3VA1096-3ED36-0AA0	3VA1096-4ED36-0AA0
20	3VA1020-3ED36-0AA0	3VA1020-4ED36-0AA0
25	3VA1025-3ED36-0AA0	3VA1025-4ED36-0AA0
32	3VA1032-3ED36-0AA0	3VA1032-4ED36-0AA0
40	3VA1040-3ED36-0AA0	3VA1040-4ED36-0AA0
50	3VA1050-3ED36-0AA0	3VA1050-4ED36-0AA0
63	3VA1063-3ED36-0AA0	3VA1063-4ED36-0AA0
80	3VA1080-3ED36-0AA0	3VA1080-4ED36-0AA0
100	3VA1010-3ED36-0AA0	3VA1010-4ED36-0AA0

**Connection with nut keeper kit**

16	3VA1096-3ED32-0AA0	3VA1096-4ED32-0AA0
20	3VA1020-3ED32-0AA0	3VA1020-4ED32-0AA0
25	3VA1025-3ED32-0AA0	3VA1025-4ED32-0AA0
32	3VA1032-3ED32-0AA0	3VA1032-4ED32-0AA0
40	3VA1040-3ED32-0AA0	3VA1040-4ED32-0AA0
50	3VA1050-3ED32-0AA0	3VA1050-4ED32-0AA0
63	3VA1063-3ED32-0AA0	3VA1063-4ED32-0AA0
80	3VA1080-3ED32-0AA0	3VA1080-4ED32-0AA0
100	3VA1010-3ED32-0AA0	3VA1010-4ED32-0AA0

## Molded Case Circuit Breakers

### 3VA1 Molded Case Circuit Breakers up to 250 A, IEC

#### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2



Connection technology

Type

Rated current  $I_n$ Current setting of the inverse-time delayed overload protection "L"  $I_r$ Operating current of the instantaneous short-circuit protection "I"  $I_i$ 

SD

$I_{cu}$  up to 25 kA at 415 V, low breaking capacity N  
See "Overview", p. 2/6 and 2/7

N

Article No.  
[www.siemens.com/product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)

Basic price per PU

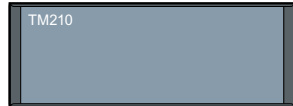
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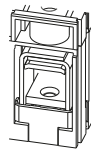
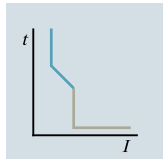
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#### 3-pole, fixed-mounted, 3VA11, up to 160 A Thermal-magnetic trip unit



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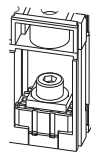


#### Line protection, TM210 FTFM

With fixed overload protection  $I_r$  and fixed short-circuit protection  $I_i$ 

##### Connection with box terminal

3VA11	$I_n$	$I_r$	$I_i$	Article No.
16	16	16	320	3VA1196-3ED36-0AA0
	20	20	320	3VA1120-3ED36-0AA0
	25	25	320	3VA1125-3ED36-0AA0
	32	32	320	3VA1132-3ED36-0AA0
40	40	40	400	3VA1140-3ED36-0AA0
	50	50	500	3VA1150-3ED36-0AA0
	63	63	630	3VA1163-3ED36-0AA0
	80	80	800	3VA1180-3ED36-0AA0
100	100	100	1000	3VA1110-3ED36-0AA0
	125	125	1250	3VA1112-3ED36-0AA0
	160	160	1600	3VA1116-3ED36-0AA0

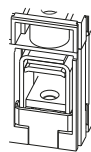
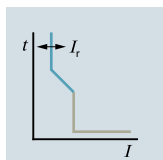


##### Connection with nut keeper kit

3VA11	$I_n$	$I_r$	$I_i$	Article No.
16	16	16	320	3VA1196-3ED32-0AA0
	20	20	320	3VA1120-3ED32-0AA0
	25	25	320	3VA1125-3ED32-0AA0
	32	32	320	3VA1132-3ED32-0AA0
40	40	40	400	3VA1140-3ED32-0AA0
	50	50	500	3VA1150-3ED32-0AA0
	63	63	630	3VA1163-3ED32-0AA0
	80	80	800	3VA1180-3ED32-0AA0
100	100	100	1000	3VA1110-3ED32-0AA0
	125	125	1250	3VA1112-3ED32-0AA0
	160	160	1600	3VA1116-3ED32-0AA0



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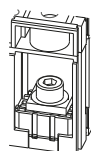


#### Line protection, TM220 ATFM

With adjustable overload protection  $I_r$  and fixed short-circuit protection  $I_i$ 

##### Connection with box terminal

3VA11	$I_n$	$I_r$	$I_i$	Article No.
16	16	11 ... 16	320	3VA1196-3EE36-0AA0
	20	14 ... 20	320	3VA1120-3EE36-0AA0
	25	18 ... 25	320	3VA1125-3EE36-0AA0
	32	22 ... 32	320	3VA1132-3EE36-0AA0
40	40	28 ... 40	400	3VA1140-3EE36-0AA0
	50	35 ... 50	500	3VA1150-3EE36-0AA0
	63	44 ... 63	630	3VA1163-3EE36-0AA0
	80	56 ... 80	800	3VA1180-3EE36-0AA0
100	100	70 ... 100	1000	3VA1110-3EE36-0AA0
	125	88 ... 125	1250	3VA1112-3EE36-0AA0
	160	112 ... 160	1600	3VA1116-3EE36-0AA0



##### Connection with nut keeper kit

3VA11	$I_n$	$I_r$	$I_i$	Article No.
16	16	11 ... 16	320	3VA1196-3EE32-0AA0
	20	14 ... 20	320	3VA1120-3EE32-0AA0
	25	18 ... 25	320	3VA1125-3EE32-0AA0
	32	22 ... 32	320	3VA1132-3EE32-0AA0
40	40	28 ... 40	400	3VA1140-3EE32-0AA0
	50	35 ... 50	500	3VA1150-3EE32-0AA0
	63	44 ... 63	630	3VA1163-3EE32-0AA0
	80	56 ... 80	800	3VA1180-3EE32-0AA0
100	100	70 ... 100	1000	3VA1110-3EE32-0AA0
	125	88 ... 125	1250	3VA1112-3EE32-0AA0
	160	112 ... 160	1600	3VA1116-3EE32-0AA0

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 36 kA at 415 V, standard breaking capacity S See "Overview", p. 2/6 and 2/7	(S)	SD	$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	(M)	SD	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H See "Overview", p. 2/6 and 2/7	(H)
		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Basic price per PU
A	d			d			d		

**Line protection, TM210 FTFM**With fixed overload protection  $I_f$  and fixed short-circuit protection  $I_f$ 

Connection with box terminal		
16	3VA1196-4ED36-0AA0	3VA1196-5ED36-0AA0
20	3VA1120-4ED36-0AA0	3VA1120-5ED36-0AA0
25	3VA1125-4ED36-0AA0	3VA1125-5ED36-0AA0
32	3VA1132-4ED36-0AA0	3VA1132-5ED36-0AA0
40	3VA1140-4ED36-0AA0	3VA1140-5ED36-0AA0
50	3VA1150-4ED36-0AA0	3VA1150-5ED36-0AA0
63	3VA1163-4ED36-0AA0	3VA1163-5ED36-0AA0
80	3VA1180-4ED36-0AA0	3VA1180-5ED36-0AA0
100	3VA1110-4ED36-0AA0	3VA1110-5ED36-0AA0
125	3VA1112-4ED36-0AA0	3VA1112-5ED36-0AA0
160	3VA1116-4ED36-0AA0	3VA1116-5ED36-0AA0

Connection with nut keeper kit		
16	3VA1196-4ED32-0AA0	3VA1196-5ED32-0AA0
20	3VA1120-4ED32-0AA0	3VA1120-5ED32-0AA0
25	3VA1125-4ED32-0AA0	3VA1125-5ED32-0AA0
32	3VA1132-4ED32-0AA0	3VA1132-5ED32-0AA0
40	3VA1140-4ED32-0AA0	3VA1140-5ED32-0AA0
50	3VA1150-4ED32-0AA0	3VA1150-5ED32-0AA0
63	3VA1163-4ED32-0AA0	3VA1163-5ED32-0AA0
80	3VA1180-4ED32-0AA0	3VA1180-5ED32-0AA0
100	3VA1110-4ED32-0AA0	3VA1110-5ED32-0AA0
125	3VA1112-4ED32-0AA0	3VA1112-5ED32-0AA0
160	3VA1116-4ED32-0AA0	3VA1116-5ED32-0AA0

**Line protection, TM220 ATFM**With adjustable overload protection  $I_f$  and fixed short-circuit protection  $I_f$ 

Connection with box terminal		
16	3VA1196-4EE36-0AA0	3VA1196-5EE36-0AA0
20	3VA1120-4EE36-0AA0	3VA1120-5EE36-0AA0
25	3VA1125-4EE36-0AA0	3VA1125-5EE36-0AA0
32	3VA1132-4EE36-0AA0	3VA1132-5EE36-0AA0
40	3VA1140-4EE36-0AA0	3VA1140-5EE36-0AA0
50	3VA1150-4EE36-0AA0	3VA1150-5EE36-0AA0
63	3VA1163-4EE36-0AA0	3VA1163-5EE36-0AA0
80	3VA1180-4EE36-0AA0	3VA1180-5EE36-0AA0
100	3VA1110-4EE36-0AA0	3VA1110-5EE36-0AA0
125	3VA1112-4EE36-0AA0	3VA1112-5EE36-0AA0
160	3VA1116-4EE36-0AA0	3VA1116-5EE36-0AA0

Connection with nut keeper kit		
16	3VA1196-4EE32-0AA0	3VA1196-5EE32-0AA0
20	3VA1120-4EE32-0AA0	3VA1120-5EE32-0AA0
25	3VA1125-4EE32-0AA0	3VA1125-5EE32-0AA0
32	3VA1132-4EE32-0AA0	3VA1132-5EE32-0AA0
40	3VA1140-4EE32-0AA0	3VA1140-5EE32-0AA0
50	3VA1150-4EE32-0AA0	3VA1150-5EE32-0AA0
63	3VA1163-4EE32-0AA0	3VA1163-5EE32-0AA0
80	3VA1180-4EE32-0AA0	3VA1180-5EE32-0AA0
100	3VA1110-4EE32-0AA0	3VA1110-5EE32-0AA0
125	3VA1112-4EE32-0AA0	3VA1112-5EE32-0AA0
160	3VA1116-4EE32-0AA0	3VA1116-5EE32-0AA0

## Molded Case Circuit Breakers

### 3VA1 Molded Case Circuit Breakers up to 250 A, IEC

#### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2



Connection technology

Type

Rated current  $I_n$ Current setting of the inverse-time delayed overload protection "L"  $I_r$ Operating current of the instantaneous short-circuit protection "I"  $I_i$ 

SD

**$I_{cu}$  up to 25 kA at 415 V, low breaking capacity N**  
See "Overview", p. 2/6 and 2/7

N

Article No.  
[www.siemens.com/product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)

Basic price per PU

A

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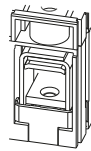
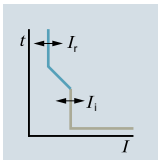
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3-pole, fixed-mounted, 3VA11/3VA12, up to 250 A  
Thermal-magnetic trip unit



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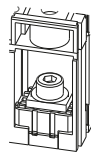


#### Line protection, TM240 ATAM

With adjustable overload protection  $I_r$  and adjustable short-circuit protection  $I_i$ 

##### Connection with box terminal

3VA11	16	11 ... 16	160 ... 320	3VA1196-3EF36-0AA0
	20	14 ... 20	160 ... 320	3VA1120-3EF36-0AA0
	25	18 ... 25	160 ... 320	3VA1125-3EF36-0AA0
	32	16 ... 32	160 ... 320	3VA1132-3EF36-0AA0
	40	28 ... 40	200 ... 400	3VA1140-3EF36-0AA0
	50	35 ... 50	250 ... 500	3VA1150-3EF36-0AA0
	63	44 ... 63	315 ... 630	3VA1163-3EF36-0AA0
	80	56 ... 80	400 ... 800	3VA1180-3EF36-0AA0
	100	70 ... 100	500 ... 1000	3VA1110-3EF36-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3EF36-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3EF36-0AA0



##### Connection with nut keeper kit

3VA11	16	11 ... 16	160 ... 320	3VA1196-3EF32-0AA0
	20	14 ... 20	160 ... 320	3VA1120-3EF32-0AA0
	25	18 ... 25	160 ... 320	3VA1125-3EF32-0AA0
	32	16 ... 32	160 ... 320	3VA1132-3EF32-0AA0
	40	28 ... 40	200 ... 400	3VA1140-3EF32-0AA0
	50	35 ... 50	250 ... 500	3VA1150-3EF32-0AA0
	63	44 ... 63	315 ... 630	3VA1163-3EF32-0AA0
	80	56 ... 80	400 ... 800	3VA1180-3EF32-0AA0
	100	70 ... 100	500 ... 1000	3VA1110-3EF32-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3EF32-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3EF32-0AA0
3VA12	160	112 ... 160	800 ... 1600	--
	200	140 ... 200	1000 ... 2000	--
	250	175 ... 250	1250 ... 2500	--

## Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 250 A, IEC

## Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 36 kA at 415 V, standard breaking capacity S See "Overview", p. 2/6 and 2/7	(S)	SD	$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	(M)	SD	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H See "Overview", p. 2/6 and 2/7	(H)
		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d			d		

**Line protection, TM240 ATAM**With adjustable overload protection  $I_r$  and adjustable short-circuit protection  $I_i$ **Connection with box terminal**

16	3VA1196-4EF36-0AA0	3VA1196-5EF36-0AA0	3VA1196-6EF36-0AA0
20	3VA1120-4EF36-0AA0	3VA1120-5EF36-0AA0	3VA1120-6EF36-0AA0
25	3VA1125-4EF36-0AA0	3VA1125-5EF36-0AA0	3VA1125-6EF36-0AA0
32	3VA1132-4EF36-0AA0	3VA1132-5EF36-0AA0	3VA1132-6EF36-0AA0
40	3VA1140-4EF36-0AA0	3VA1140-5EF36-0AA0	3VA1140-6EF36-0AA0
50	3VA1150-4EF36-0AA0	3VA1150-5EF36-0AA0	3VA1150-6EF36-0AA0
63	3VA1163-4EF36-0AA0	3VA1163-5EF36-0AA0	3VA1163-6EF36-0AA0
80	3VA1180-4EF36-0AA0	3VA1180-5EF36-0AA0	3VA1180-6EF36-0AA0
100	3VA1110-4EF36-0AA0	3VA1110-5EF36-0AA0	3VA1110-6EF36-0AA0
125	3VA1112-4EF36-0AA0	3VA1112-5EF36-0AA0	3VA1112-6EF36-0AA0
160	3VA1116-4EF36-0AA0	3VA1116-5EF36-0AA0	3VA1116-6EF36-0AA0

**Connection with nut keeper kit**

16	3VA1196-4EF32-0AA0	3VA1196-5EF32-0AA0	3VA1196-6EF32-0AA0
20	3VA1120-4EF32-0AA0	3VA1120-5EF32-0AA0	3VA1120-6EF32-0AA0
25	3VA1125-4EF32-0AA0	3VA1125-5EF32-0AA0	3VA1125-6EF32-0AA0
32	3VA1132-4EF32-0AA0	3VA1132-5EF32-0AA0	3VA1132-6EF32-0AA0
40	3VA1140-4EF32-0AA0	3VA1140-5EF32-0AA0	3VA1140-6EF32-0AA0
50	3VA1150-4EF32-0AA0	3VA1150-5EF32-0AA0	3VA1150-6EF32-0AA0
63	3VA1163-4EF32-0AA0	3VA1163-5EF32-0AA0	3VA1163-6EF32-0AA0
80	3VA1180-4EF32-0AA0	3VA1180-5EF32-0AA0	3VA1180-6EF32-0AA0
100	3VA1110-4EF32-0AA0	3VA1110-5EF32-0AA0	3VA1110-6EF32-0AA0
125	3VA1112-4EF32-0AA0	3VA1112-5EF32-0AA0	3VA1112-6EF32-0AA0
160	3VA1116-4EF32-0AA0	3VA1116-5EF32-0AA0	3VA1116-6EF32-0AA0
160	3VA1216-4EF32-0AA0	3VA1216-5EF32-0AA0	3VA1216-6EF32-0AA0
200	3VA1220-4EF32-0AA0	3VA1220-5EF32-0AA0	3VA1220-6EF32-0AA0
250	3VA1225-4EF32-0AA0	3VA1225-5EF32-0AA0	3VA1225-6EF32-0AA0

## Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 250 A, IEC

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2



Connection technology

Type

Rated current  $I_n$

Current setting of the inverse-time delayed overload protection "L"  $I_r$

Operating current of the instantaneous short-circuit protection "I"  $I_i$

SD

**$I_{cu}$  up to 16 kA at 415 V, very low breaking capacity B**  
See "Overview", p. 2/6 and 2/7

(B)

Article No.  
[www.siemens.com/product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)

Basic price per PU

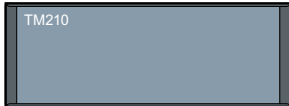
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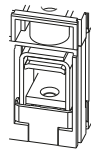
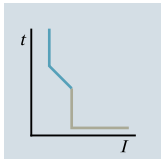
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4-pole, fixed-mounted, 3VA10, up to 100 A  
Thermal-magnetic trip unit



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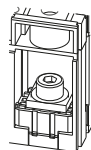


#### Line protection, TM210 FTFM, without neutral conductor protection

With fixed overload protection  $I_r$  and fixed short-circuit protection  $I_i$

##### Connection with box terminal

3VA10	$I_n$	$I_r$	$I_i$	Article No.
3VA10	16	16	320	3VA1096-2ED46-0AA0
	20	20	320	3VA1020-2ED46-0AA0
	25	25	320	3VA1025-2ED46-0AA0
	32	32	320	3VA1032-2ED46-0AA0
3VA10	40	40	400	3VA1040-2ED46-0AA0
	50	50	500	3VA1050-2ED46-0AA0
	63	63	630	3VA1063-2ED46-0AA0
	80	80	800	3VA1080-2ED46-0AA0
	100	100	1000	3VA1010-2ED46-0AA0



##### Connection with nut keeper kit

3VA10	$I_n$	$I_r$	$I_i$	Article No.
3VA10	16	16	320	3VA1096-2ED42-0AA0
	20	20	320	3VA1020-2ED42-0AA0
	25	25	320	3VA1025-2ED42-0AA0
	32	32	320	3VA1032-2ED42-0AA0
3VA10	40	40	400	3VA1040-2ED42-0AA0
	50	50	500	3VA1050-2ED42-0AA0
	63	63	630	3VA1063-2ED42-0AA0
	80	80	800	3VA1080-2ED42-0AA0
	100	100	1000	3VA1010-2ED42-0AA0



**Molded Case Circuit Breakers**

3VA1 Molded Case Circuit Breakers up to 250 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 25 kA at 415 V, low breaking capacity N See "Overview", p. 2/6 and 2/7	Basic price per PU	SD	$I_{cu}$ up to 36 kA at 415 V, standard breaking capacity S See "Overview", p. 2/6 and 2/7	Basic price per PU
A	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>		d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	

**Line protection, TM210 FTFM, without neutral conductor protection**With fixed overload protection  $I_f$  and fixed short-circuit protection  $I_f$ **Connection with box terminal**

16	3VA1096-3ED46-0AA0	3VA1096-4ED46-0AA0
20	3VA1020-3ED46-0AA0	3VA1020-4ED46-0AA0
25	3VA1025-3ED46-0AA0	3VA1025-4ED46-0AA0
32	3VA1032-3ED46-0AA0	3VA1032-4ED46-0AA0
40	3VA1040-3ED46-0AA0	3VA1040-4ED46-0AA0
50	3VA1050-3ED46-0AA0	3VA1050-4ED46-0AA0
63	3VA1063-3ED46-0AA0	3VA1063-4ED46-0AA0
80	3VA1080-3ED46-0AA0	3VA1080-4ED46-0AA0
100	3VA1010-3ED46-0AA0	3VA1010-4ED46-0AA0

**Connection with nut keeper kit**

16	3VA1096-3ED42-0AA0	3VA1096-4ED42-0AA0
20	3VA1020-3ED42-0AA0	3VA1020-4ED42-0AA0
25	3VA1025-3ED42-0AA0	3VA1025-4ED42-0AA0
32	3VA1032-3ED42-0AA0	3VA1032-4ED42-0AA0
40	3VA1040-3ED42-0AA0	3VA1040-4ED42-0AA0
50	3VA1050-3ED42-0AA0	3VA1050-4ED42-0AA0
63	3VA1063-3ED42-0AA0	3VA1063-4ED42-0AA0
80	3VA1080-3ED42-0AA0	3VA1080-4ED42-0AA0
100	3VA1010-3ED42-0AA0	3VA1010-4ED42-0AA0

## Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 250 A, IEC

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current  $I_n$

Current setting of the inverse-time delayed overload protection "L"  $I_r$

Operating current of the instantaneous short-circuit protection "I"  $I_i$

SD

$I_{cu}$  up to 25 kA at 415 V, low breaking capacity N  
See "Overview", p. 2/6 and 2/7

(N)

Article No.  
[www.siemens.com/product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)

Basic price per PU

A

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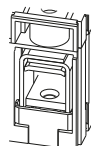
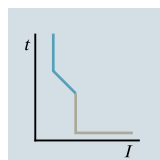
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#### 4-pole, fixed-mounted, 3VA11, up to 160 A Thermal-magnetic trip unit



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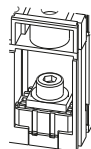


#### Line protection, TM210 FTFM, without neutral conductor protection

With fixed overload protection  $I_r$  and fixed short-circuit protection  $I_i$

##### Connection with box terminal

3VA11	Rated current $I_n$	Overload setting $I_r$	Short-circuit setting $I_i$	Article No.
3VA11	16	16	320	3VA1196-3ED46-0AA0
	20	20	320	3VA1120-3ED46-0AA0
	25	25	320	3VA1125-3ED46-0AA0
	32	32	320	3VA1132-3ED46-0AA0
	40	40	400	3VA1140-3ED46-0AA0
	50	50	500	3VA1150-3ED46-0AA0
	63	63	630	3VA1163-3ED46-0AA0
	80	80	800	3VA1180-3ED46-0AA0
	100	100	1000	3VA1110-3ED46-0AA0
	125	125	1250	3VA1112-3ED46-0AA0
	160	160	1600	3VA1116-3ED46-0AA0

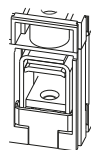
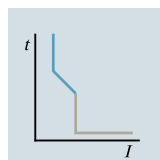


##### Connection with nut keeper kit

3VA11	Rated current $I_n$	Overload setting $I_r$	Short-circuit setting $I_i$	Article No.
3VA11	16	16	320	3VA1196-3ED42-0AA0
	20	20	320	3VA1120-3ED42-0AA0
	25	25	320	3VA1125-3ED42-0AA0
	32	32	320	3VA1132-3ED42-0AA0
	40	40	400	3VA1140-3ED42-0AA0
	50	50	500	3VA1150-3ED42-0AA0
	63	63	630	3VA1163-3ED42-0AA0
	80	80	800	3VA1180-3ED42-0AA0
	100	100	1000	3VA1110-3ED42-0AA0
	125	125	1250	3VA1112-3ED42-0AA0
	160	160	1600	3VA1116-3ED42-0AA0



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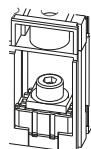


#### Line protection, TM210 FTFM, 50% neutral conductor protection

With fixed overload protection  $I_r$  and fixed short-circuit protection  $I_i$

##### Connection with box terminal

3VA11	Rated current $I_n$	Overload setting $I_r$	Short-circuit setting $I_i$	Article No.
3VA11	100	100	1000	3VA1110-3FD46-0AA0
	125	125	1250	3VA1112-3FD46-0AA0
	160	160	1600	3VA1116-3FD46-0AA0



##### Connection with nut keeper kit

3VA11	Rated current $I_n$	Overload setting $I_r$	Short-circuit setting $I_i$	Article No.
3VA11	100	100	1000	3VA1110-3FD42-0AA0
	125	125	1250	3VA1112-3FD42-0AA0
	160	160	1600	3VA1116-3FD42-0AA0

## Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 250 A, IEC

## Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 36 kA at 415 V, standard breaking capacity S See "Overview", p. 2/6 and 2/7	(S)	SD	$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	(M)	SD	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H See "Overview", p. 2/6 and 2/7	(H)
		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d			d		

2

**Line protection, TM210 FTFM, without neutral conductor protection**With fixed overload protection  $I_r$  and fixed short-circuit protection  $I_i$ 

## Connection with box terminal

16	3VA1196-4ED46-0AA0	3VA1196-5ED46-0AA0	3VA1196-6ED46-0AA0
20	3VA1120-4ED46-0AA0	3VA1120-5ED46-0AA0	3VA1120-6ED46-0AA0
25	3VA1125-4ED46-0AA0	3VA1125-5ED46-0AA0	3VA1125-6ED46-0AA0
32	3VA1132-4ED46-0AA0	3VA1132-5ED46-0AA0	3VA1132-6ED46-0AA0
40	3VA1140-4ED46-0AA0	3VA1140-5ED46-0AA0	3VA1140-6ED46-0AA0
50	3VA1150-4ED46-0AA0	3VA1150-5ED46-0AA0	3VA1150-6ED46-0AA0
63	3VA1163-4ED46-0AA0	3VA1163-5ED46-0AA0	3VA1163-6ED46-0AA0
80	3VA1180-4ED46-0AA0	3VA1180-5ED46-0AA0	3VA1180-6ED46-0AA0
100	3VA1110-4ED46-0AA0	3VA1110-5ED46-0AA0	3VA1110-6ED46-0AA0
125	3VA1112-4ED46-0AA0	3VA1112-5ED46-0AA0	3VA1112-6ED46-0AA0
160	3VA1116-4ED46-0AA0	3VA1116-5ED46-0AA0	3VA1116-6ED46-0AA0

## Connection with nut keeper kit

16	3VA1196-4ED42-0AA0	3VA1196-5ED42-0AA0	3VA1196-6ED42-0AA0
20	3VA1120-4ED42-0AA0	3VA1120-5ED42-0AA0	3VA1120-6ED42-0AA0
25	3VA1125-4ED42-0AA0	3VA1125-5ED42-0AA0	3VA1125-6ED42-0AA0
32	3VA1132-4ED42-0AA0	3VA1132-5ED42-0AA0	3VA1132-6ED42-0AA0
40	3VA1140-4ED42-0AA0	3VA1140-5ED42-0AA0	3VA1140-6ED42-0AA0
50	3VA1150-4ED42-0AA0	3VA1150-5ED42-0AA0	3VA1150-6ED42-0AA0
63	3VA1163-4ED42-0AA0	3VA1163-5ED42-0AA0	3VA1163-6ED42-0AA0
80	3VA1180-4ED42-0AA0	3VA1180-5ED42-0AA0	3VA1180-6ED42-0AA0
100	3VA1110-4ED42-0AA0	3VA1110-5ED42-0AA0	3VA1110-6ED42-0AA0
125	3VA1112-4ED42-0AA0	3VA1112-5ED42-0AA0	3VA1112-6ED42-0AA0
160	3VA1116-4ED42-0AA0	3VA1116-5ED42-0AA0	3VA1116-6ED42-0AA0

**Line protection, TM210 FTFM, 50% neutral conductor protection**With fixed overload protection  $I_r$  and fixed short-circuit protection  $I_i$ 

## Connection with box terminal

100	3VA1110-4FD46-0AA0	3VA1110-5FD46-0AA0	3VA1110-6FD46-0AA0
125	3VA1112-4FD46-0AA0	3VA1112-5FD46-0AA0	3VA1112-6FD46-0AA0
160	3VA1116-4FD46-0AA0	3VA1116-5FD46-0AA0	3VA1116-6FD46-0AA0

## Connection with nut keeper kit

100	3VA1110-4FD42-0AA0	3VA1110-5FD42-0AA0	3VA1110-6FD42-0AA0
125	3VA1112-4FD42-0AA0	3VA1112-5FD42-0AA0	3VA1112-6FD42-0AA0
160	3VA1116-4FD42-0AA0	3VA1116-5FD42-0AA0	3VA1116-6FD42-0AA0

## Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 250 A, IEC

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2



Connection technology

Type

Rated current  $I_n$

Current setting of the inverse-time delayed overload protection "L"  $I_r$

Operating current of the instantaneous short-circuit protection "I"  $I_i$

SD

$I_{cu}$  up to 25 kA at 415 V, low breaking capacity N  
See "Overview", p. 2/6 and 2/7

(N)

Article No.  
[www.siemens.com/product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)

Basic price per PU

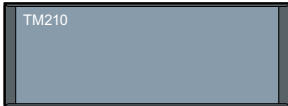
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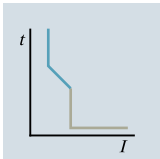
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4-pole, fixed-mounted, 3VA11, up to 160 A  
Thermal-magnetic trip unit



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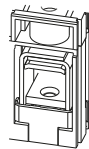


#### Line protection, TM210 FTFM, 100% neutral conductor protection

With fixed overload protection  $I_r$  and fixed short-circuit protection  $I_i$

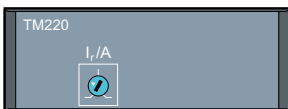
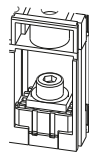
##### Connection with box terminal

3VA11	$I_n$	$I_r$	$I_i$	Article No.
16	16	16	320	3VA1196-3GD46-0AA0
	20	20	320	3VA1120-3GD46-0AA0
	25	25	320	3VA1125-3GD46-0AA0
	32	32	320	3VA1132-3GD46-0AA0
40	40	40	400	3VA1140-3GD46-0AA0
	50	50	500	3VA1150-3GD46-0AA0
	63	63	630	3VA1163-3GD46-0AA0
	80	80	800	3VA1180-3GD46-0AA0
100	100	100	1000	3VA1110-3GD46-0AA0
	125	125	1250	3VA1112-3GD46-0AA0
	160	160	1600	3VA1116-3GD46-0AA0

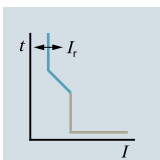


##### Connection with nut keeper kit

3VA11	$I_n$	$I_r$	$I_i$	Article No.
16	16	16	320	3VA1196-3GD42-0AA0
	20	20	320	3VA1120-3GD42-0AA0
	25	25	320	3VA1125-3GD42-0AA0
	32	32	320	3VA1132-3GD42-0AA0
40	40	40	400	3VA1140-3GD42-0AA0
	50	50	500	3VA1150-3GD42-0AA0
	63	63	630	3VA1163-3GD42-0AA0
	80	80	800	3VA1180-3GD42-0AA0
100	100	100	1000	3VA1110-3GD42-0AA0
	125	125	1250	3VA1112-3GD42-0AA0
	160	160	1600	3VA1116-3GD42-0AA0



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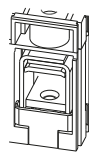


#### Line protection, TM220 ATFM, without neutral conductor protection

With adjustable overload protection  $I_r$  and fixed short-circuit protection  $I_i$

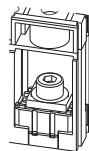
##### Connection with box terminal

3VA11	$I_n$	$I_r$	$I_i$	Article No.
16	16	11 ... 16	320	3VA1196-3EE46-0AA0
	20	14 ... 20	320	3VA1120-3EE46-0AA0
	25	18 ... 25	320	3VA1125-3EE46-0AA0
	32	22 ... 32	320	3VA1132-3EE46-0AA0
40	40	28 ... 40	400	3VA1140-3EE46-0AA0
	50	35 ... 50	500	3VA1150-3EE46-0AA0
	63	44 ... 63	630	3VA1163-3EE46-0AA0
	80	56 ... 80	800	3VA1180-3EE46-0AA0
100	100	70 ... 100	1000	3VA1110-3EE46-0AA0
	125	88 ... 125	1250	3VA1112-3EE46-0AA0
	160	112 ... 160	1600	3VA1116-3EE46-0AA0



##### Connection with nut keeper kit

3VA11	$I_n$	$I_r$	$I_i$	Article No.
16	16	11 ... 16	320	3VA1196-3EE42-0AA0
	20	14 ... 20	320	3VA1120-3EE42-0AA0
	25	18 ... 25	320	3VA1125-3EE42-0AA0
	32	22 ... 32	320	3VA1132-3EE42-0AA0
40	40	28 ... 40	400	3VA1140-3EE42-0AA0
	50	35 ... 50	500	3VA1150-3EE42-0AA0
	63	44 ... 63	630	3VA1163-3EE42-0AA0
	80	56 ... 80	800	3VA1180-3EE42-0AA0
100	100	70 ... 100	1000	3VA1110-3EE42-0AA0
	125	88 ... 125	1250	3VA1112-3EE42-0AA0
	160	112 ... 160	1600	3VA1116-3EE42-0AA0



PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 36 kA at 415 V, standard breaking capacity S <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">S</span>		SD	$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">M</span>		SD	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>	
		See "Overview", p. 2/6 and 2/7			See "Overview", p. 2/6 and 2/7			See "Overview", p. 2/6 and 2/7	
		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>	Basic price per PU
A	d			d			d		

**Line protection, TM210 FTFM, 100% neutral conductor protection**With fixed overload protection  $I_r$  and fixed short-circuit protection  $I_f$ **Connection with box terminal**

16	3VA1196-4GD46-0AA0	3VA1196-5GD46-0AA0	3VA1196-6GD46-0AA0
20	3VA1120-4GD46-0AA0	3VA1120-5GD46-0AA0	3VA1120-6GD46-0AA0
25	3VA1125-4GD46-0AA0	3VA1125-5GD46-0AA0	3VA1125-6GD46-0AA0
32	3VA1132-4GD46-0AA0	3VA1132-5GD46-0AA0	3VA1132-6GD46-0AA0
40	3VA1140-4GD46-0AA0	3VA1140-5GD46-0AA0	3VA1140-6GD46-0AA0
50	3VA1150-4GD46-0AA0	3VA1150-5GD46-0AA0	3VA1150-6GD46-0AA0
63	3VA1163-4GD46-0AA0	3VA1163-5GD46-0AA0	3VA1163-6GD46-0AA0
80	3VA1180-4GD46-0AA0	3VA1180-5GD46-0AA0	3VA1180-6GD46-0AA0
100	3VA1110-4GD46-0AA0	3VA1110-5GD46-0AA0	3VA1110-6GD46-0AA0
125	3VA1112-4GD46-0AA0	3VA1112-5GD46-0AA0	3VA1112-6GD46-0AA0
160	3VA1116-4GD46-0AA0	3VA1116-5GD46-0AA0	3VA1116-6GD46-0AA0

**Connection with nut keeper kit**

16	3VA1196-4GD42-0AA0	3VA1196-5GD42-0AA0	3VA1196-6GD42-0AA0
20	3VA1120-4GD42-0AA0	3VA1120-5GD42-0AA0	3VA1120-6GD42-0AA0
25	3VA1125-4GD42-0AA0	3VA1125-5GD42-0AA0	3VA1125-6GD42-0AA0
32	3VA1132-4GD42-0AA0	3VA1132-5GD42-0AA0	3VA1132-6GD42-0AA0
40	3VA1140-4GD42-0AA0	3VA1140-5GD42-0AA0	3VA1140-6GD42-0AA0
50	3VA1150-4GD42-0AA0	3VA1150-5GD42-0AA0	3VA1150-6GD42-0AA0
63	3VA1163-4GD42-0AA0	3VA1163-5GD42-0AA0	3VA1163-6GD42-0AA0
80	3VA1180-4GD42-0AA0	3VA1180-5GD42-0AA0	3VA1180-6GD42-0AA0
100	3VA1110-4GD42-0AA0	3VA1110-5GD42-0AA0	3VA1110-6GD42-0AA0
125	3VA1112-4GD42-0AA0	3VA1112-5GD42-0AA0	3VA1112-6GD42-0AA0
160	3VA1116-4GD42-0AA0	3VA1116-5GD42-0AA0	3VA1116-6GD42-0AA0

**Line protection, TM220 ATFM, without neutral conductor protection**With adjustable overload protection  $I_r$  and fixed short-circuit protection  $I_f$ **Connection with box terminal**

16	3VA1196-4EE46-0AA0	3VA1196-5EE46-0AA0	3VA1196-6EE46-0AA0
20	3VA1120-4EE46-0AA0	3VA1120-5EE46-0AA0	3VA1120-6EE46-0AA0
25	3VA1125-4EE46-0AA0	3VA1125-5EE46-0AA0	3VA1125-6EE46-0AA0
32	3VA1132-4EE46-0AA0	3VA1132-5EE46-0AA0	3VA1132-6EE46-0AA0
40	3VA1140-4EE46-0AA0	3VA1140-5EE46-0AA0	3VA1140-6EE46-0AA0
50	3VA1150-4EE46-0AA0	3VA1150-5EE46-0AA0	3VA1150-6EE46-0AA0
63	3VA1163-4EE46-0AA0	3VA1163-5EE46-0AA0	3VA1163-6EE46-0AA0
80	3VA1180-4EE46-0AA0	3VA1180-5EE46-0AA0	3VA1180-6EE46-0AA0
100	3VA1110-4EE46-0AA0	3VA1110-5EE46-0AA0	3VA1110-6EE46-0AA0
125	3VA1112-4EE46-0AA0	3VA1112-5EE46-0AA0	3VA1112-6EE46-0AA0
160	3VA1116-4EE46-0AA0	3VA1116-5EE46-0AA0	3VA1116-6EE46-0AA0

**Connection with nut keeper kit**

16	3VA1196-4EE42-0AA0	3VA1196-5EE42-0AA0	3VA1196-6EE42-0AA0
20	3VA1120-4EE42-0AA0	3VA1120-5EE42-0AA0	3VA1120-6EE42-0AA0
25	3VA1125-4EE42-0AA0	3VA1125-5EE42-0AA0	3VA1125-6EE42-0AA0
32	3VA1132-4EE42-0AA0	3VA1132-5EE42-0AA0	3VA1132-6EE42-0AA0
40	3VA1140-4EE42-0AA0	3VA1140-5EE42-0AA0	3VA1140-6EE42-0AA0
50	3VA1150-4EE42-0AA0	3VA1150-5EE42-0AA0	3VA1150-6EE42-0AA0
63	3VA1163-4EE42-0AA0	3VA1163-5EE42-0AA0	3VA1163-6EE42-0AA0
80	3VA1180-4EE42-0AA0	3VA1180-5EE42-0AA0	3VA1180-6EE42-0AA0
100	3VA1110-4EE42-0AA0	3VA1110-5EE42-0AA0	3VA1110-6EE42-0AA0
125	3VA1112-4EE42-0AA0	3VA1112-5EE42-0AA0	3VA1112-6EE42-0AA0
160	3VA1116-4EE42-0AA0	3VA1116-5EE42-0AA0	3VA1116-6EE42-0AA0

## Molded Case Circuit Breakers

### 3VA1 Molded Case Circuit Breakers up to 250 A, IEC

#### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current  $I_n$ Current setting of the inverse-time delayed overload protection "L"  $I_r$ Operating current of the instantaneous short-circuit protection "I"  $I_i$ 

SD

**$I_{cu}$  up to 25 kA at 415 V, low breaking capacity N**  
See "Overview", p. 2/6 and 2/7

N

Article No.  
[www.siemens.com/product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)

Basic price  
per PU

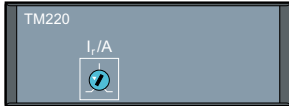
A

A

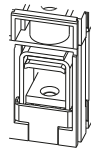
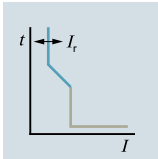
A

d

#### 4-pole, fixed-mounted, 3VA11, up to 160 A Thermal-magnetic trip unit



I201\_19028



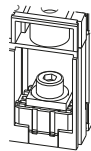
#### Line protection, TM220 ATFM, 50% neutral conductor protection

With adjustable overload protection  $I_r$  and fixed short-circuit protection  $I_i$ 

##### Connection with box terminal

3VA11	$I_n$	$I_r$	$I_i$
	100	70 ... 100	1000
	125	88 ... 125	1250
	160	112 ... 160	1600

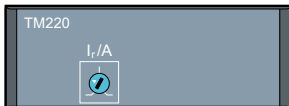
3VA1110-3FE46-0AA0  
3VA1112-3FE46-0AA0  
3VA1116-3FE46-0AA0



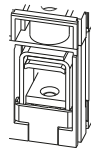
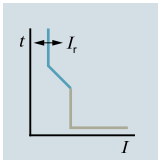
##### Connection with nut keeper kit

3VA11	$I_n$	$I_r$	$I_i$
	100	70 ... 100	1000
	125	88 ... 125	1250
	160	112 ... 160	1600

3VA1110-3FE42-0AA0  
3VA1112-3FE42-0AA0  
3VA1116-3FE42-0AA0



I201\_19028



#### Line protection, TM220 ATFM, 100% neutral conductor protection

With adjustable overload protection  $I_r$  and fixed short-circuit protection  $I_i$ 

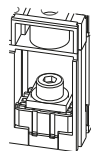
##### Connection with box terminal

3VA11	$I_n$	$I_r$	$I_i$
	16	11 ... 16	320
	20	14 ... 20	320
	25	18 ... 25	320
	32	22 ... 32	320
	40	28 ... 40	400
	50	35 ... 50	500
	63	44 ... 63	630
	80	56 ... 80	800
	100	70 ... 100	1000
	125	88 ... 125	1250
	160	112 ... 160	1600

3VA1196-3GE46-0AA0  
3VA1120-3GE46-0AA0  
3VA1125-3GE46-0AA0  
3VA1132-3GE46-0AA0

3VA1140-3GE46-0AA0  
3VA1150-3GE46-0AA0  
3VA1163-3GE46-0AA0  
3VA1180-3GE46-0AA0

3VA1110-3GE46-0AA0  
3VA1112-3GE46-0AA0  
3VA1116-3GE46-0AA0



##### Connection with nut keeper kit

3VA11	$I_n$	$I_r$	$I_i$
	16	11 ... 16	320
	20	14 ... 20	320
	25	18 ... 25	320
	32	22 ... 32	320
	40	28 ... 40	400
	50	35 ... 50	500
	63	44 ... 63	630
	80	56 ... 80	800
	100	70 ... 100	1000
	125	88 ... 125	1250
	160	112 ... 160	1600

3VA1196-3GE42-0AA0  
3VA1120-3GE42-0AA0  
3VA1125-3GE42-0AA0  
3VA1132-3GE42-0AA0

3VA1140-3GE42-0AA0  
3VA1150-3GE42-0AA0  
3VA1163-3GE42-0AA0  
3VA1180-3GE42-0AA0

3VA1110-3GE42-0AA0  
3VA1112-3GE42-0AA0  
3VA1116-3GE42-0AA0

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 36 kA at 415 V, standard breaking capacity S See "Overview", p. 2/6 and 2/7	Basic price per PU	SD	$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	Basic price per PU	SD	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H See "Overview", p. 2/6 and 2/7	Basic price per PU
A	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>		d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>		d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	

**Line protection, TM220 ATFM, 50% neutral conductor protection**With adjustable overload protection  $I_r$  and fixed short-circuit protection  $I_f$ 

Connection with box terminal									
100	3VA1110-4FE46-0AA0	3VA1110-5FE46-0AA0	3VA1110-6FE46-0AA0						
125	3VA1112-4FE46-0AA0	3VA1112-5FE46-0AA0	3VA1112-6FE46-0AA0						
160	3VA1116-4FE46-0AA0	3VA1116-5FE46-0AA0	3VA1116-6FE46-0AA0						
Connection with nut keeper kit									
100	3VA1110-4FE42-0AA0	3VA1110-5FE42-0AA0	3VA1110-6FE42-0AA0						
125	3VA1112-4FE42-0AA0	3VA1112-5FE42-0AA0	3VA1112-6FE42-0AA0						
160	3VA1116-4FE42-0AA0	3VA1116-5FE42-0AA0	3VA1116-6FE42-0AA0						

**Line protection, TM220 ATFM, 100% neutral conductor protection**With adjustable overload protection  $I_r$  and fixed short-circuit protection  $I_f$ 

Connection with box terminal									
16	3VA1196-4GE46-0AA0	3VA1196-5GE46-0AA0	3VA1196-6GE46-0AA0						
20	3VA1120-4GE46-0AA0	3VA1120-5GE46-0AA0	3VA1120-6GE46-0AA0						
25	3VA1125-4GE46-0AA0	3VA1125-5GE46-0AA0	3VA1125-6GE46-0AA0						
32	3VA1132-4GE46-0AA0	3VA1132-5GE46-0AA0	3VA1132-6GE46-0AA0						
40	3VA1140-4GE46-0AA0	3VA1140-5GE46-0AA0	3VA1140-6GE46-0AA0						
50	3VA1150-4GE46-0AA0	3VA1150-5GE46-0AA0	3VA1150-6GE46-0AA0						
63	3VA1163-4GE46-0AA0	3VA1163-5GE46-0AA0	3VA1163-6GE46-0AA0						
80	3VA1180-4GE46-0AA0	3VA1180-5GE46-0AA0	3VA1180-6GE46-0AA0						
100	3VA1110-4GE46-0AA0	3VA1110-5GE46-0AA0	3VA1110-6GE46-0AA0						
125	3VA1112-4GE46-0AA0	3VA1112-5GE46-0AA0	3VA1112-6GE46-0AA0						
160	3VA1116-4GE46-0AA0	3VA1116-5GE46-0AA0	3VA1116-6GE46-0AA0						
Connection with nut keeper kit									
16	3VA1196-4GE42-0AA0	3VA1196-5GE42-0AA0	3VA1196-6GE42-0AA0						
20	3VA1120-4GE42-0AA0	3VA1120-5GE42-0AA0	3VA1120-6GE42-0AA0						
25	3VA1125-4GE42-0AA0	3VA1125-5GE42-0AA0	3VA1125-6GE42-0AA0						
32	3VA1132-4GE42-0AA0	3VA1132-5GE42-0AA0	3VA1132-6GE42-0AA0						
40	3VA1140-4GE42-0AA0	3VA1140-5GE42-0AA0	3VA1140-6GE42-0AA0						
50	3VA1150-4GE42-0AA0	3VA1150-5GE42-0AA0	3VA1150-6GE42-0AA0						
63	3VA1163-4GE42-0AA0	3VA1163-5GE42-0AA0	3VA1163-6GE42-0AA0						
80	3VA1180-4GE42-0AA0	3VA1180-5GE42-0AA0	3VA1180-6GE42-0AA0						
100	3VA1110-4GE42-0AA0	3VA1110-5GE42-0AA0	3VA1110-6GE42-0AA0						
125	3VA1112-4GE42-0AA0	3VA1112-5GE42-0AA0	3VA1112-6GE42-0AA0						
160	3VA1116-4GE42-0AA0	3VA1116-5GE42-0AA0	3VA1116-6GE42-0AA0						

## Molded Case Circuit Breakers

### 3VA1 Molded Case Circuit Breakers up to 250 A, IEC

#### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current  $I_n$ Current setting of the inverse-time delayed overload protection "L"  $I_r$ Operating current of the instantaneous short-circuit protection "I"  $I_i$ 

SD

**$I_{cu}$  up to 25 kA at 415 V, low breaking capacity N**  
See "Overview", p. 2/6 and 2/7

N

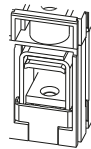
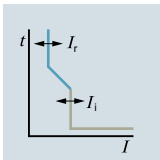
Article No.  
[www.siemens.com/product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)

Basic price per PU

#### 4-pole, fixed-mounted, 3VA11/3VA12, up to 250 A Thermal-magnetic trip unit



1201\_19035



#### Line protection, TM240 ATAM, without neutral conductor protection

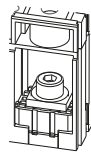
With adjustable overload protection  $I_r$  and adjustable short-circuit protection  $I_i$ 

##### Connection with box terminal

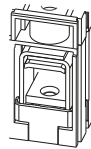
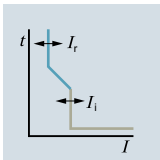
3VA11	16	11 ... 16	160 ... 320	3VA1196-3EF46-0AA0
	20	14 ... 20	160 ... 320	3VA1120-3EF46-0AA0
	25	18 ... 25	160 ... 320	3VA1125-3EF46-0AA0
	32	16 ... 32	160 ... 320	3VA1132-3EF46-0AA0
	40	28 ... 40	200 ... 400	3VA1140-3EF46-0AA0
	50	35 ... 50	250 ... 500	3VA1150-3EF46-0AA0
	63	44 ... 63	315 ... 630	3VA1163-3EF46-0AA0
	80	56 ... 80	400 ... 800	3VA1180-3EF46-0AA0
	100	70 ... 100	500 ... 1000	3VA1110-3EF46-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3EF46-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3EF46-0AA0

##### Connection with nut keeper kit

3VA11	16	11 ... 16	160 ... 320	3VA1196-3EF42-0AA0
	20	14 ... 20	160 ... 320	3VA1120-3EF42-0AA0
	25	18 ... 25	160 ... 320	3VA1125-3EF42-0AA0
	32	16 ... 32	160 ... 320	3VA1132-3EF42-0AA0
	40	28 ... 40	200 ... 400	3VA1140-3EF42-0AA0
	50	35 ... 50	250 ... 500	3VA1150-3EF42-0AA0
	63	44 ... 63	315 ... 630	3VA1163-3EF42-0AA0
	80	56 ... 80	400 ... 800	3VA1180-3EF42-0AA0
	100	70 ... 100	500 ... 1000	3VA1110-3EF42-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3EF42-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3EF42-0AA0
3VA12	160	112 ... 160	800 ... 1600	--
	200	140 ... 200	1000 ... 2000	--
	250	175 ... 250	1250 ... 2500	--



1201\_19035



#### Line protection, TM240 ATAM, 50% neutral conductor protection

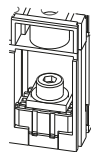
With adjustable overload protection  $I_r$  and adjustable short-circuit protection  $I_i$ 

##### Connection with box terminal

3VA11	100	70 ... 100	500 ... 1000	3VA1110-3FF46-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3FF46-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3FF46-0AA0

##### Connection with nut keeper kit

3VA11	100	70 ... 100	500 ... 1000	3VA1110-3FF42-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3FF42-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3FF42-0AA0
3VA12	160	112 ... 160	800 ... 1600	--
	200	140 ... 200	1000 ... 2000	--
	250	175 ... 250	1250 ... 2500	--





## Molded Case Circuit Breakers

## 3VA1 Molded Case Circuit Breakers up to 250 A, IEC

## Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 36 kA at 415 V, standard breaking capacity S See "Overview", p. 2/6 and 2/7	(S)	SD	$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	(M)	SD	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H See "Overview", p. 2/6 and 2/7	(H)
		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d			d		

2

**Line protection, TM240 ATAM, without neutral conductor protection**With adjustable overload protection  $I_r$  and adjustable short-circuit protection  $I_i$ 

## Connection with box terminal

16	3VA1196-4EF46-0AA0	3VA1196-5EF46-0AA0	3VA1196-6EF46-0AA0
20	3VA1120-4EF46-0AA0	3VA1120-5EF46-0AA0	3VA1120-6EF46-0AA0
25	3VA1125-4EF46-0AA0	3VA1125-5EF46-0AA0	3VA1125-6EF46-0AA0
32	3VA1132-4EF46-0AA0	3VA1132-5EF46-0AA0	3VA1132-6EF46-0AA0
40	3VA1140-4EF46-0AA0	3VA1140-5EF46-0AA0	3VA1140-6EF46-0AA0
50	3VA1150-4EF46-0AA0	3VA1150-5EF46-0AA0	3VA1150-6EF46-0AA0
63	3VA1163-4EF46-0AA0	3VA1163-5EF46-0AA0	3VA1163-6EF46-0AA0
80	3VA1180-4EF46-0AA0	3VA1180-5EF46-0AA0	3VA1180-6EF46-0AA0
100	3VA1110-4EF46-0AA0	3VA1110-5EF46-0AA0	3VA1110-6EF46-0AA0
125	3VA1112-4EF46-0AA0	3VA1112-5EF46-0AA0	3VA1112-6EF46-0AA0
160	3VA1116-4EF46-0AA0	3VA1116-5EF46-0AA0	3VA1116-6EF46-0AA0

## Connection with nut keeper kit

16	3VA1196-4EF42-0AA0	3VA1196-5EF42-0AA0	3VA1196-6EF42-0AA0
20	3VA1120-4EF42-0AA0	3VA1120-5EF42-0AA0	3VA1120-6EF42-0AA0
25	3VA1125-4EF42-0AA0	3VA1125-5EF42-0AA0	3VA1125-6EF42-0AA0
32	3VA1132-4EF42-0AA0	3VA1132-5EF42-0AA0	3VA1132-6EF42-0AA0
40	3VA1140-4EF42-0AA0	3VA1140-5EF42-0AA0	3VA1140-6EF42-0AA0
50	3VA1150-4EF42-0AA0	3VA1150-5EF42-0AA0	3VA1150-6EF42-0AA0
63	3VA1163-4EF42-0AA0	3VA1163-5EF42-0AA0	3VA1163-6EF42-0AA0
80	3VA1180-4EF42-0AA0	3VA1180-5EF42-0AA0	3VA1180-6EF42-0AA0
100	3VA1110-4EF42-0AA0	3VA1110-5EF42-0AA0	3VA1110-6EF42-0AA0
125	3VA1112-4EF42-0AA0	3VA1112-5EF42-0AA0	3VA1112-6EF42-0AA0
160	3VA1116-4EF42-0AA0	3VA1116-5EF42-0AA0	3VA1116-6EF42-0AA0
160	3VA1216-4EF42-0AA0	3VA1216-5EF42-0AA0	3VA1216-6EF42-0AA0
200	3VA1220-4EF42-0AA0	3VA1220-5EF42-0AA0	3VA1220-6EF42-0AA0
250	3VA1225-4EF42-0AA0	3VA1225-5EF42-0AA0	3VA1225-6EF42-0AA0

**Line protection, TM240 ATAM, 50% neutral conductor protection**With adjustable overload protection  $I_r$  and adjustable short-circuit protection  $I_i$ 

## Connection with box terminal

100	3VA1110-4FF46-0AA0	3VA1110-5FF46-0AA0	3VA1110-6FF46-0AA0
125	3VA1112-4FF46-0AA0	3VA1112-5FF46-0AA0	3VA1112-6FF46-0AA0
160	3VA1116-4FF46-0AA0	3VA1116-5FF46-0AA0	3VA1116-6FF46-0AA0

## Connection with nut keeper kit

100	3VA1110-4FF42-0AA0	3VA1110-5FF42-0AA0	3VA1110-6FF42-0AA0
125	3VA1112-4FF42-0AA0	3VA1112-5FF42-0AA0	3VA1112-6FF42-0AA0
160	3VA1116-4FF42-0AA0	3VA1116-5FF42-0AA0	3VA1116-6FF42-0AA0
160	3VA1216-4FF42-0AA0	3VA1216-5FF42-0AA0	3VA1216-6FF42-0AA0
200	3VA1220-4FF42-0AA0	3VA1220-5FF42-0AA0	3VA1220-6FF42-0AA0
250	3VA1225-4FF42-0AA0	3VA1225-5FF42-0AA0	3VA1225-6FF42-0AA0

## Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 250 A, IEC

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2



Connection technology

Type

Rated current  $I_n$

Current setting of the inverse-time delayed overload protection "L"  $I_r$

Operating current of the instantaneous short-circuit protection "I"  $I_i$

SD

$I_{cu}$  up to 25 kA at 415 V, low breaking capacity N  
See "Overview", p. 2/6 and 2/7

(N)

Article No.  
[www.siemens.com/product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)

Basic price per PU

A

A

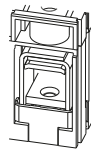
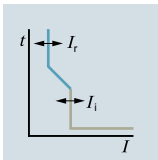
A

d

4-pole, fixed-mounted, 3VA11/3VA12, up to 250 A  
Thermal-magnetic trip unit



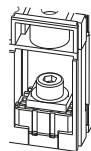
1201\_19035



**Line protection, TM240 ATAM, 100% neutral conductor protection**  
With adjustable overload protection  $I_r$  and adjustable short-circuit protection  $I_i$

#### Connection with box terminal

3VA11	Rated current $I_n$	Overload protection $I_r$	Short-circuit protection $I_i$	Article No.
3VA11	16	11 ... 16	160 ... 320	3VA1196-3GF46-0AA0
	20	14 ... 20	160 ... 320	3VA1120-3GF46-0AA0
	25	18 ... 25	160 ... 320	3VA1125-3GF46-0AA0
	32	16 ... 32	160 ... 320	3VA1132-3GF46-0AA0
	40	28 ... 40	200 ... 400	3VA1140-3GF46-0AA0
	50	35 ... 50	250 ... 500	3VA1150-3GF46-0AA0
	63	44 ... 63	315 ... 630	3VA1163-3GF46-0AA0
	80	56 ... 80	400 ... 800	3VA1180-3GF46-0AA0
3VA11	100	70 ... 100	500 ... 1000	3VA1110-3GF46-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3GF46-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3GF46-0AA0



#### Connection with nut keeper kit

3VA11	Rated current $I_n$	Overload protection $I_r$	Short-circuit protection $I_i$	Article No.
3VA11	16	11 ... 16	160 ... 320	3VA1196-3GF42-0AA0
	20	14 ... 20	160 ... 320	3VA1120-3GF42-0AA0
	25	18 ... 25	160 ... 320	3VA1125-3GF42-0AA0
	32	16 ... 32	160 ... 320	3VA1132-3GF42-0AA0
	40	28 ... 40	200 ... 400	3VA1140-3GF42-0AA0
	50	35 ... 50	250 ... 500	3VA1150-3GF42-0AA0
	63	44 ... 63	315 ... 630	3VA1163-3GF42-0AA0
	80	56 ... 80	400 ... 800	3VA1180-3GF42-0AA0
3VA11	100	70 ... 100	500 ... 1000	3VA1110-3GF42-0AA0
	125	88 ... 125	625 ... 1250	3VA1112-3GF42-0AA0
	160	112 ... 160	800 ... 1600	3VA1116-3GF42-0AA0
3VA12	160	112 ... 160	800 ... 1600	--
	200	140 ... 200	1000 ... 2000	--
	250	175 ... 250	1250 ... 2500	--

## Molded Case Circuit Breakers

## 3VA1 Molded Case Circuit Breakers up to 250 A, IEC

## Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 36 kA at 415 V, standard breaking capacity S <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">S</span>		SD	$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">M</span>		SD	$I_{cu}$ up to 70 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>	
		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d			d		

**Line protection, TM240 ATAM, 100% neutral conductor protection**With adjustable overload protection  $I_f$  and adjustable short-circuit protection  $I_f$ 

## Connection with box terminal

16	3VA1196-4GF46-0AA0	3VA1196-5GF46-0AA0	3VA1196-6GF46-0AA0
20	3VA1120-4GF46-0AA0	3VA1120-5GF46-0AA0	3VA1120-6GF46-0AA0
25	3VA1125-4GF46-0AA0	3VA1125-5GF46-0AA0	3VA1125-6GF46-0AA0
32	3VA1132-4GF46-0AA0	3VA1132-5GF46-0AA0	3VA1132-6GF46-0AA0
40	3VA1140-4GF46-0AA0	3VA1140-5GF46-0AA0	3VA1140-6GF46-0AA0
50	3VA1150-4GF46-0AA0	3VA1150-5GF46-0AA0	3VA1150-6GF46-0AA0
63	3VA1163-4GF46-0AA0	3VA1163-5GF46-0AA0	3VA1163-6GF46-0AA0
80	3VA1180-4GF46-0AA0	3VA1180-5GF46-0AA0	3VA1180-6GF46-0AA0
100	3VA1110-4GF46-0AA0	3VA1110-5GF46-0AA0	3VA1110-6GF46-0AA0
125	3VA1112-4GF46-0AA0	3VA1112-5GF46-0AA0	3VA1112-6GF46-0AA0
160	3VA1116-4GF46-0AA0	3VA1116-5GF46-0AA0	3VA1116-6GF46-0AA0

## Connection with nut keeper kit

16	3VA1196-4GF42-0AA0	3VA1196-5GF42-0AA0	3VA1196-6GF42-0AA0
20	3VA1120-4GF42-0AA0	3VA1120-5GF42-0AA0	3VA1120-6GF42-0AA0
25	3VA1125-4GF42-0AA0	3VA1125-5GF42-0AA0	3VA1125-6GF42-0AA0
32	3VA1132-4GF42-0AA0	3VA1132-5GF42-0AA0	3VA1132-6GF42-0AA0
40	3VA1140-4GF42-0AA0	3VA1140-5GF42-0AA0	3VA1140-6GF42-0AA0
50	3VA1150-4GF42-0AA0	3VA1150-5GF42-0AA0	3VA1150-6GF42-0AA0
63	3VA1163-4GF42-0AA0	3VA1163-5GF42-0AA0	3VA1163-6GF42-0AA0
80	3VA1180-4GF42-0AA0	3VA1180-5GF42-0AA0	3VA1180-6GF42-0AA0
100	3VA1110-4GF42-0AA0	3VA1110-5GF42-0AA0	3VA1110-6GF42-0AA0
125	3VA1112-4GF42-0AA0	3VA1112-5GF42-0AA0	3VA1112-6GF42-0AA0
160	3VA1116-4GF42-0AA0	3VA1116-5GF42-0AA0	3VA1116-6GF42-0AA0
160	3VA1216-4GF42-0AA0	3VA1216-5GF42-0AA0	3VA1216-6GF42-0AA0
200	3VA1220-4GF42-0AA0	3VA1220-5GF42-0AA0	3VA1220-6GF42-0AA0
250	3VA1225-4GF42-0AA0	3VA1225-5GF42-0AA0	3VA1225-6GF42-0AA0

## Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 250 A, IEC

### Starter protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2



Connection technology

Type

Rated current  $I_n$

Current setting of the inverse-time delayed overload protection "L"  $I_r$

Operating current of the instantaneous short-circuit protection "I"  $I_i$

SD

**$I_{cu}$  up to 55 kA at 415 V, medium breaking capacity M**  
See "Overview", p. 2/6 and 2/7

(M)

Article No.  
[www.siemens.com/product?Article No.](http://www.siemens.com/product?Article No.)

Basic price per PU

A

A

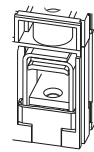
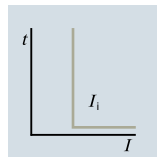
A

d

3-pole, fixed-mounted, 3VA11/3VA12, up to 200 A  
Magnetic trip unit



1201\_19523



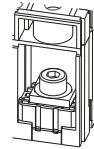
#### Starter protection, **TM110M FM** **NEW**

With fixed short-circuit protection  $I_i$

##### Connection with box terminal

3VA11	8	--	128
	12.5	--	200

**3VA1108-5MG36-0AA0**  
**3VA1192-5MG36-0AA0**



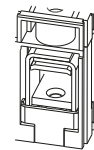
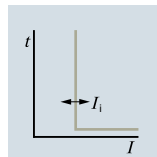
##### Connection with nut keeper kit

3VA11	8	--	128
	12.5	--	200

**3VA1108-5MG32-0AA0**  
**3VA1192-5MG32-0AA0**



1201\_19240



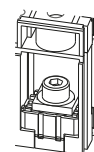
#### Starter protection, **TM120M AM**

With adjustable short-circuit protection  $I_i$

##### Connection with box terminal

3VA11	20	<b>NEW</b>	--	140 ... 320
	32	--	--	220 ... 510
	40	--	--	280 ... 640
	50	--	--	350 ... 800
	63	--	--	440 ... 1010
	80	--	--	560 ... 1280
	100	--	--	700 ... 1600
	125	--	--	875 ... 2000

**3VA1120-5MH36-0AA0**  
**3VA1132-5MH36-0AA0**  
**3VA1140-5MH36-0AA0**  
**3VA1150-5MH36-0AA0**



##### Connection with nut keeper kit

3VA11	20	<b>NEW</b>	--	140 ... 320
	32	--	--	220 ... 510
	40	--	--	280 ... 640
	50	--	--	350 ... 800
	63	--	--	440 ... 1010
	80	--	--	560 ... 1280
	100	--	--	700 ... 1600
	125	--	--	875 ... 2000
3VA12	160	--	--	1120 ... 2560
	200	--	--	1200 ... 2800

**3VA1120-5MH32-0AA0**  
**3VA1132-5MH32-0AA0**  
**3VA1140-5MH32-0AA0**  
**3VA1150-5MH32-0AA0**

**3VA1163-5MH32-0AA0**  
**3VA1180-5MH32-0AA0**  
**3VA1110-5MH32-0AA0**  
**3VA1112-5MH32-0AA0**

**3VA1216-5MH32-0AA0**  
**3VA1220-5MH32-0AA0**

**Molded Case Circuit Breakers**

3VA1 Molded Case Circuit Breakers up to 250 A, IEC

Starter protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	<b><math>I_{cu}</math> up to 70 kA at 415 V, high breaking capacity H</b> See "Overview", p. 2/6 and 2/7	<b>H</b>
A	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU

2

**Starter protection, TM110M FM** **NEW**With fixed short-circuit protection  $I_i$ 

<b>Connection with box terminal</b>	
8	3VA1108-6MG36-0AA0
12.5	3VA1192-6MG36-0AA0

<b>Connection with nut keeper kit</b>	
8	3VA1108-6MG32-0AA0
12.5	3VA1192-6MG32-0AA0

**Starter protection, TM120M AM**With adjustable short-circuit protection  $I_i$ 

<b>Connection with box terminal</b>	
20 <b>NEW</b>	3VA1120-6MH36-0AA0
32	3VA1132-6MH36-0AA0
40	3VA1140-6MH36-0AA0
50	3VA1150-6MH36-0AA0
63	3VA1163-6MH36-0AA0
80	3VA1180-6MH36-0AA0
100	3VA1110-6MH36-0AA0
125	3VA1112-6MH36-0AA0

<b>Connection with nut keeper kit</b>	
20 <b>NEW</b>	3VA1120-6MH32-0AA0
32	3VA1132-6MH32-0AA0
40	3VA1140-6MH32-0AA0
50	3VA1150-6MH32-0AA0
63	3VA1163-6MH32-0AA0
80	3VA1180-6MH32-0AA0
100	3VA1110-6MH32-0AA0
125	3VA1112-6MH32-0AA0
160	3VA1216-6MH32-0AA0
200	3VA1220-6MH32-0AA0

## Molded Case Circuit Breakers

3VA1 Molded Case Circuit Breakers up to 250 A, IEC


### Switch disconnectors

#### Selection and ordering data

PU (UNIT, SET, M) = 1

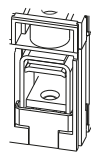
PS = 1 UNIT

PG = 1CB

	Connection technology	Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	Operating current of the instantaneous short-circuit protection "I" $I_i$	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Basic price per PU

3-pole, fixed-mounted, 3VA11/3VA12, up to 250 A  
Without trip unit

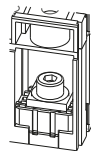
#### Switch disconnector without SD100 trip unit



##### Connection with box terminal

3VA11	Rated current	$I_r$	$I_i$	SD
	63	--	--	
	100	--	--	
	125	--	--	
	160	--	--	

3VA1163-1AA36-0AA0  
3VA1110-1AA36-0AA0  
3VA1112-1AA36-0AA0  
3VA1116-1AA36-0AA0



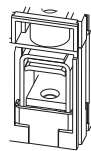
##### Connection with nut keeper kit

3VA11	Rated current	$I_r$	$I_i$	SD
	63	--	--	
	100	--	--	
	125	--	--	
	160	--	--	
3VA12	Rated current	$I_r$	$I_i$	SD
	250	--	--	

3VA1163-1AA32-0AA0  
3VA1110-1AA32-0AA0  
3VA1112-1AA32-0AA0  
3VA1116-1AA32-0AA0  
3VA1225-1AA32-0AA0

4-pole, fixed-mounted, 3VA11/3VA12, up to 250 A  
Without trip unit

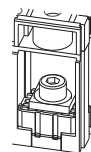
#### Switch disconnector without SD100 trip unit



##### Connection with box terminal

3VA11	Rated current	$I_r$	$I_i$	SD
	63	--	--	
	100	--	--	
	125	--	--	
	160	--	--	

3VA1163-1AA46-0AA0  
3VA1110-1AA46-0AA0  
3VA1112-1AA46-0AA0  
3VA1116-1AA46-0AA0



##### Connection with nut keeper kit

3VA11	Rated current	$I_r$	$I_i$	SD
	63	--	--	
	100	--	--	
	125	--	--	
	160	--	--	
3VA12	Rated current	$I_r$	$I_i$	SD
	250	--	--	

3VA1163-1AA42-0AA0  
3VA1110-1AA42-0AA0  
3VA1112-1AA42-0AA0  
3VA1116-1AA42-0AA0  
3VA1225-1AA42-0AA0

Note

You will find the 3VA2 molded case circuit breakers up to 1000 A, IEC from page [2/42](#) onwards.

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

### Line protection

#### Selection and ordering data

PU (UNIT, SET, M) = 1

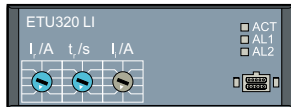
PS = 1 UNIT

PG = 1CB



Connection technology	Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	Operating current of the instantaneous short-circuit protection "I" $I_i$	SD	$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Basic price per PU
		A	A	A	d			

3-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A  
Electronic trip unit



1201\_18857

#### Line protection, ETU320 LI

With adjustable overload protection  $I_r$  and adjustable instantaneous short-circuit protection  $I_i$

##### Connection with box terminal

3VA20	25	10 ... 25	38 ... 300	3VA2025-5HL36-0AA0
	40	16 ... 40	60 ... 480	3VA2040-5HL36-0AA0
	63	25 ... 63	95 ... 756	3VA2063-5HL36-0AA0
	100	40 ... 100	150 ... 1200	3VA2010-5HL36-0AA0
3VA21	25	10 ... 25	38 ... 300	3VA2125-5HL36-0AA0
	40	16 ... 40	60 ... 480	3VA2140-5HL36-0AA0
	63	25 ... 63	95 ... 756	3VA2163-5HL36-0AA0
	100	40 ... 100	150 ... 1200	3VA2110-5HL36-0AA0
	160	63 ... 160	240 ... 1600	3VA2116-5HL36-0AA0

##### Connection with nut keeper kit

3VA20	25	10 ... 25	38 ... 300	3VA2025-5HL32-0AA0
	40	16 ... 40	60 ... 480	3VA2040-5HL32-0AA0
	63	25 ... 63	95 ... 756	3VA2063-5HL32-0AA0
	100	40 ... 100	150 ... 1200	3VA2010-5HL32-0AA0
3VA21	25	10 ... 25	38 ... 300	3VA2125-5HL32-0AA0
	40	16 ... 40	60 ... 480	3VA2140-5HL32-0AA0
	63	25 ... 63	95 ... 756	3VA2163-5HL32-0AA0
	100	40 ... 100	150 ... 1200	3VA2110-5HL32-0AA0
	160	63 ... 160	240 ... 1600	3VA2116-5HL32-0AA0
3VA22	160	63 ... 160	240 ... 1920	3VA2216-5HL32-0AA0
	250	100 ... 250	375 ... 2500	3VA2225-5HL32-0AA0
3VA23	250	100 ... 250	375 ... 3000	3VA2325-5HL32-0AA0
	400	160 ... 400	600 ... 4000	3VA2340-5HL32-0AA0
3VA24	400	160 ... 400	600 ... 4800 <sup>1)</sup>	3VA2440-5HL32-0AA0
	630	250 ... 630	945 ... 5670	3VA2463-5HL32-0AA0
3VA25	630 <sup>2)</sup>	250 ... 630	945 ... 7560	3VA2563-5HL32-0AA0
	800	320 ... 800	1200 ... 8000	3VA2580-5HL32-0AA0
	1000	400 ... 1000	1500 ... 10000	3VA2510-5HL32-0AA0

<sup>1)</sup> At breaking capacity L 4400 A

<sup>2)</sup> Start of delivery scheduled for 1st quarter 2018



## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H See "Overview", p. 2/6 and 2/7	(H)	SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C See "Overview", p. 2/6 and 2/7	(C)	SD	$I_{cu}$ up to 150 kA at 415 V, extremely high switching capacity L See "Overview", p. 2/6 and 2/7	(L)
		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Basic price per PU
A	d			d			d		

**Line protection, ETU320 LI**With adjustable overload protection  $I_r$  and adjustable instantaneous short-circuit protection  $I_f$ **Connection with box terminal**

25	3VA2025-6HL36-0AA0	3VA2025-7HL36-0AA0	3VA2025-8HL36-0AA0
40	3VA2040-6HL36-0AA0	3VA2040-7HL36-0AA0	3VA2040-8HL36-0AA0
63	3VA2063-6HL36-0AA0	3VA2063-7HL36-0AA0	3VA2063-8HL36-0AA0
100	3VA2010-6HL36-0AA0	3VA2010-7HL36-0AA0	3VA2010-8HL36-0AA0
25	3VA2125-6HL36-0AA0	3VA2125-7HL36-0AA0	3VA2125-8HL36-0AA0
40	3VA2140-6HL36-0AA0	3VA2140-7HL36-0AA0	3VA2140-8HL36-0AA0
63	3VA2163-6HL36-0AA0	3VA2163-7HL36-0AA0	3VA2163-8HL36-0AA0
100	3VA2110-6HL36-0AA0	3VA2110-7HL36-0AA0	3VA2110-8HL36-0AA0
160	3VA2116-6HL36-0AA0	3VA2116-7HL36-0AA0	3VA2116-8HL36-0AA0

**Connection with nut keeper kit**

25	3VA2025-6HL32-0AA0	3VA2025-7HL32-0AA0	3VA2025-8HL32-0AA0
40	3VA2040-6HL32-0AA0	3VA2040-7HL32-0AA0	3VA2040-8HL32-0AA0
63	3VA2063-6HL32-0AA0	3VA2063-7HL32-0AA0	3VA2063-8HL32-0AA0
100	3VA2010-6HL32-0AA0	3VA2010-7HL32-0AA0	3VA2010-8HL32-0AA0
25	3VA2125-6HL32-0AA0	3VA2125-7HL32-0AA0	3VA2125-8HL32-0AA0
40	3VA2140-6HL32-0AA0	3VA2140-7HL32-0AA0	3VA2140-8HL32-0AA0
63	3VA2163-6HL32-0AA0	3VA2163-7HL32-0AA0	3VA2163-8HL32-0AA0
100	3VA2110-6HL32-0AA0	3VA2110-7HL32-0AA0	3VA2110-8HL32-0AA0
160	3VA2116-6HL32-0AA0	3VA2116-7HL32-0AA0	3VA2116-8HL32-0AA0
160	3VA2216-6HL32-0AA0	3VA2216-7HL32-0AA0	3VA2216-8HL32-0AA0
250	3VA2225-6HL32-0AA0	3VA2225-7HL32-0AA0	3VA2225-8HL32-0AA0
250	3VA2325-6HL32-0AA0	3VA2325-7HL32-0AA0	3VA2325-8HL32-0AA0
400	3VA2340-6HL32-0AA0	3VA2340-7HL32-0AA0	3VA2340-8HL32-0AA0
400	3VA2440-6HL32-0AA0	3VA2440-7HL32-0AA0	3VA2440-8HL32-0AA0
630	3VA2463-6HL32-0AA0	3VA2463-7HL32-0AA0	3VA2463-8HL32-0AA0
<b>NEW</b> 630 <sup>1)</sup>	3VA2563-6HL32-0AA0	3VA2563-7HL32-0AA0	--
800	3VA2580-6HL32-0AA0	3VA2580-7HL32-0AA0	--
1000	3VA2510-6HL32-0AA0	3VA2510-7HL32-0AA0	--

<sup>1)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2



Connection technology

Type

Rated current  
 $I_n$

Current setting of the inverse-time delayed overload protection "L"  
 $I_r$

Operating current of the instantaneous short-circuit protection "I"  
 $I_i$

Ground-fault protection  
G  
 $I_g$

SD

$I_{cu}$  up to 55 kA at 415 V, medium breaking capacity M  
See "Overview", p. 2/6 and 2/7

M

Article No.  
[www.siemens.com/product?Article No.](http://www.siemens.com/product?Article No.)

Basic price per PU

A

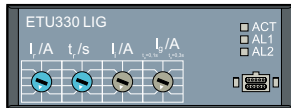
A

A

A

d

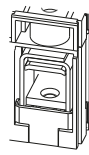
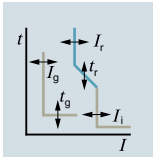
3-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A  
Electronic trip unit



1201\_18426

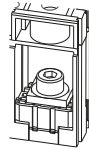
#### Line protection, ETU330 LIG

With adjustable overload protection  $I_r$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault protection  $I_g$



#### Connection with box terminal

Model	Rated current $I_n$	Overload protection $I_r$	Instantaneous short-circuit protection $I_i$	Ground-fault protection $I_g$	Article No.
3VA20	25	10 ... 25	38 ... 300	15 ... 25	3VA2025-5HM36-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	3VA2040-5HM36-0AA0
	63	25 ... 63	95 ... 756	16 ... 63	3VA2063-5HM36-0AA0
	100	40 ... 100	150 ... 1200	20 ... 100	3VA2010-5HM36-0AA0
3VA21	25	10 ... 25	38 ... 300	15 ... 25	3VA2125-5HM36-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	3VA2140-5HM36-0AA0
	63	25 ... 63	95 ... 756	16 ... 63	3VA2163-5HM36-0AA0
	100	40 ... 100	150 ... 1200	20 ... 100	3VA2110-5HM36-0AA0
	160	63 ... 160	240 ... 1600	32 ... 160	3VA2116-5HM36-0AA0



#### Connection with nut keeper kit

Model	Rated current $I_n$	Overload protection $I_r$	Instantaneous short-circuit protection $I_i$	Ground-fault protection $I_g$	Article No.
3VA20	25	10 ... 25	38 ... 300	15 ... 25	3VA2025-5HM32-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	3VA2040-5HM32-0AA0
	63	25 ... 63	95 ... 756	16 ... 63	3VA2063-5HM32-0AA0
	100	40 ... 100	150 ... 1200	20 ... 100	3VA2010-5HM32-0AA0
3VA21	25	10 ... 25	38 ... 300	15 ... 25	3VA2125-5HM32-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	3VA2140-5HM32-0AA0
	63	25 ... 63	95 ... 756	16 ... 63	3VA2163-5HM32-0AA0
3VA22	160	63 ... 160	240 ... 1920	32 ... 160	3VA2216-5HM32-0AA0
	250	100 ... 250	375 ... 2500	50 ... 250	3VA2225-5HM32-0AA0
3VA23	250	100 ... 250	375 ... 3000	50 ... 250	3VA2325-5HM32-0AA0
	400	160 ... 400	600 ... 4000	80 ... 400	3VA2340-5HM32-0AA0
3VA24	400	160 ... 400	600 ... 4800 <sup>1)</sup>	80 ... 400	3VA2440-5HM32-0AA0
	630	250 ... 630	945 ... 5670	126 ... 630	3VA2463-5HM32-0AA0
3VA25 <b>NEW</b>	630 <sup>2)</sup>	250 ... 630	945 ... 7560	126 ... 630	3VA2563-5HM32-0AA0
	800	320 ... 800	1200 ... 8000	160 ... 800	3VA2580-5HM32-0AA0
	1000	400 ... 1000	1500 ... 10000	200 ... 1000	3VA2510-5HM32-0AA0

<sup>1)</sup> At breaking capacity L 4400 A

<sup>2)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

## Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>		SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		SD	$I_{cu}$ up to 150 kA at 415 V, extremely high switching capacity L <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">L</span>	
		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d			d		

2

**Line protection, ETU330 LIG**With adjustable overload protection  $I_r$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault protection  $I_g$ **Connection with box terminal**

25	3VA2025-6HM36-0AA0	3VA2025-7HM36-0AA0	3VA2025-8HM36-0AA0
40	3VA2040-6HM36-0AA0	3VA2040-7HM36-0AA0	3VA2040-8HM36-0AA0
63	3VA2063-6HM36-0AA0	3VA2063-7HM36-0AA0	3VA2063-8HM36-0AA0
100	3VA2010-6HM36-0AA0	3VA2010-7HM36-0AA0	3VA2010-8HM36-0AA0
25	3VA2125-6HM36-0AA0	3VA2125-7HM36-0AA0	3VA2125-8HM36-0AA0
40	3VA2140-6HM36-0AA0	3VA2140-7HM36-0AA0	3VA2140-8HM36-0AA0
63	3VA2163-6HM36-0AA0	3VA2163-7HM36-0AA0	3VA2163-8HM36-0AA0
100	3VA2110-6HM36-0AA0	3VA2110-7HM36-0AA0	3VA2110-8HM36-0AA0
160	3VA2116-6HM36-0AA0	3VA2116-7HM36-0AA0	3VA2116-8HM36-0AA0

**Connection with nut keeper kit**

25	3VA2025-6HM32-0AA0	3VA2025-7HM32-0AA0	3VA2025-8HM32-0AA0
40	3VA2040-6HM32-0AA0	3VA2040-7HM32-0AA0	3VA2040-8HM32-0AA0
63	3VA2063-6HM32-0AA0	3VA2063-7HM32-0AA0	3VA2063-8HM32-0AA0
100	3VA2010-6HM32-0AA0	3VA2010-7HM32-0AA0	3VA2010-8HM32-0AA0
25	3VA2125-6HM32-0AA0	3VA2125-7HM32-0AA0	3VA2125-8HM32-0AA0
40	3VA2140-6HM32-0AA0	3VA2140-7HM32-0AA0	3VA2140-8HM32-0AA0
63	3VA2163-6HM32-0AA0	3VA2163-7HM32-0AA0	3VA2163-8HM32-0AA0
100	3VA2110-6HM32-0AA0	3VA2110-7HM32-0AA0	3VA2110-8HM32-0AA0
160	3VA2116-6HM32-0AA0	3VA2116-7HM32-0AA0	3VA2116-8HM32-0AA0
160	3VA2216-6HM32-0AA0	3VA2216-7HM32-0AA0	3VA2216-8HM32-0AA0
250	3VA2225-6HM32-0AA0	3VA2225-7HM32-0AA0	3VA2225-8HM32-0AA0
250	3VA2325-6HM32-0AA0	3VA2325-7HM32-0AA0	3VA2325-8HM32-0AA0
400	3VA2340-6HM32-0AA0	3VA2340-7HM32-0AA0	3VA2340-8HM32-0AA0
400	3VA2440-6HM32-0AA0	3VA2440-7HM32-0AA0	3VA2440-8HM32-0AA0
630	3VA2463-6HM32-0AA0	3VA2463-7HM32-0AA0	3VA2463-8HM32-0AA0
<b>NEW</b> 630 <sup>1)</sup>	3VA2563-6HM32-0AA0	3VA2563-7HM32-0AA0	--
800	3VA2580-6HM32-0AA0	3VA2580-7HM32-0AA0	--
1000	3VA2510-6HM32-0AA0	3VA2510-7HM32-0AA0	--

<sup>1)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2



Connection technology

Type

Rated current  $I_n$

Current setting of the inverse-time delayed overload protection "L"  $I_r$

Operating current of the instantaneous short-circuit protection "I"  $I_i$

SD

$I_{cu}$  up to 55 kA at 415 V, medium breaking capacity M  
See "Overview", p. 2/6 and 2/7

(M)

Article No.  
[www.siemens.com/product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)

Basic price per PU

A

A

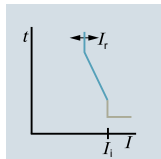
A

d

3-pole, fixed-mounted, 3VA21 to 3VA25, up to 1000 A  
Electronic trip unit



1201\_18427



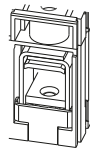
#### Line protection, ETU340 ELISA

With **easily** adjustable characteristic (characteristic form of a fuse)

##### Connection with box terminal

3VA21	25	10 ... 25	375
	40	16 ... 40	600
	63	25 ... 63	945
	100	40 ... 100	1500

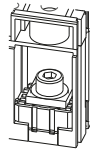
**3VA2125-5HK36-0AA0**  
**3VA2140-5HK36-0AA0**  
**3VA2163-5HK36-0AA0**  
**3VA2110-5HK36-0AA0**



##### Connection with nut keeper kit

3VA21	25	10 ... 25	375
	40	16 ... 40	600
	63	25 ... 63	945
	100	40 ... 100	1500
3VA22	160	63 ... 160	2400
3VA23	250	100 ... 250	3750
3VA24	400	160 ... 400	6000 <sup>1)</sup>
	500	200 ... 500	7000
	630	250 ... 630	5670
3VA25	630 <sup>2)</sup>	250 ... 630	7560
	800	320 ... 800	8000
	1000	400 ... 1000	10000

**3VA2125-5HK32-0AA0**  
**3VA2140-5HK32-0AA0**  
**3VA2163-5HK32-0AA0**  
**3VA2110-5HK32-0AA0**



**3VA2216-5HK32-0AA0**  
**3VA2325-5HK32-0AA0**

**3VA2440-5HK32-0AA0**  
**3VA2450-5HK32-0AA0**  
**3VA2463-5HK32-0AA0**

**3VA2563-5HK32-0AA0**  
**3VA2580-5HK32-0AA0**  
**3VA2510-5HK32-0AA0**

<sup>1)</sup> At breaking capacity L 4400 A

<sup>2)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

## Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>		SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		SD	$I_{cu}$ up to 150 kA at 415 V, extremely high switching capacity L <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">L</span>	
		See "Overview", p. 2/6 and 2/7			See "Overview", p. 2/6 and 2/7			See "Overview", p. 2/6 and 2/7	
		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d			d		

2

**Line protection, ETU340 ELISA**With **easily** adjustable characteristic (characteristic form of a fuse)**Connection with box terminal**

25	3VA2125-6HK36-0AA0	3VA2125-7HK36-0AA0	3VA2125-8HK36-0AA0
40	3VA2140-6HK36-0AA0	3VA2140-7HK36-0AA0	3VA2140-8HK36-0AA0
63	3VA2163-6HK36-0AA0	3VA2163-7HK36-0AA0	3VA2163-8HK36-0AA0
100	3VA2110-6HK36-0AA0	3VA2110-7HK36-0AA0	3VA2110-8HK36-0AA0

**Connection with nut keeper kit**

25	3VA2125-6HK32-0AA0	3VA2125-7HK32-0AA0	3VA2125-8HK32-0AA0
40	3VA2140-6HK32-0AA0	3VA2140-7HK32-0AA0	3VA2140-8HK32-0AA0
63	3VA2163-6HK32-0AA0	3VA2163-7HK32-0AA0	3VA2163-8HK32-0AA0
100	3VA2110-6HK32-0AA0	3VA2110-7HK32-0AA0	3VA2110-8HK32-0AA0
160	3VA2216-6HK32-0AA0	3VA2216-7HK32-0AA0	3VA2216-8HK32-0AA0
250	3VA2325-6HK32-0AA0	3VA2325-7HK32-0AA0	3VA2325-8HK32-0AA0
400	3VA2440-6HK32-0AA0	3VA2440-7HK32-0AA0	3VA2440-8HK32-0AA0
500	3VA2450-6HK32-0AA0	3VA2450-7HK32-0AA0	3VA2450-8HK32-0AA0
630	3VA2463-6HK32-0AA0	3VA2463-7HK32-0AA0	3VA2463-8HK32-0AA0
<b>NEW</b> 630 <sup>1)</sup>	3VA2563-6HK32-0AA0	3VA2563-7HK32-0AA0	--
800	3VA2580-6HK32-0AA0	3VA2580-7HK32-0AA0	--
1000	3VA2510-6HK32-0AA0	3VA2510-7HK32-0AA0	--

<sup>1)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

### 3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

#### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current  
 $I_n$ Current setting of the inverse-time delayed overload protection "L"  
 $I_r$ S function (short-time delayed short-circuit protection "S")  
 $I_{sd}$ Operating current of the instantaneous short-circuit protection "I"  
 $I_i$ 

SD

$I_{cu}$  up to 55 kA at 415 V, medium breaking capacity M M  
See "Overview", p. 2/6 and 2/7

Article No.  
[www.siemens.com/product?Article No.](http://www.siemens.com/product?Article No.)

Basic price per PU

A

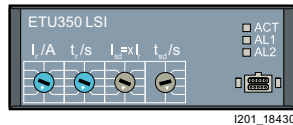
A

A

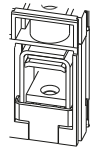
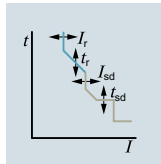
A

d

3-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A  
Electronic trip unit



I201\_18430



#### Line and generator protection, ETU350 LSI

With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$  and fixed instantaneous short-circuit protection  $I_i$

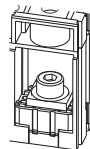
 $I_r \times \dots$ 

##### Connection with box terminal

Rated current $I_n$	Rated current $I_n$	Rated current $I_n$	Rated current $I_n$	Rated current $I_n$
3VA20	25	10 ... 25	1.5 ... 10	300
	40	16 ... 40	1.5 ... 10	480
	63	25 ... 63	1.5 ... 10	756
	100	40 ... 100	1.5 ... 10	1200
3VA21	25	10 ... 25	1.5 ... 10	300
	40	16 ... 40	1.5 ... 10	480
	63	25 ... 63	1.5 ... 10	756
	100	40 ... 100	1.5 ... 10	1200
	160	63 ... 160	1.5 ... 10	1600

3VA2025-5HN36-0AA0  
3VA2040-5HN36-0AA0  
3VA2063-5HN36-0AA0  
3VA2010-5HN36-0AA0

3VA2125-5HN36-0AA0  
3VA2140-5HN36-0AA0  
3VA2163-5HN36-0AA0  
3VA2110-5HN36-0AA0  
3VA2116-5HN36-0AA0



##### Connection with nut keeper kit

Rated current $I_n$	Rated current $I_n$	Rated current $I_n$	Rated current $I_n$	Rated current $I_n$
3VA20	25	10 ... 25	1.5 ... 10	300
	40	16 ... 40	1.5 ... 10	480
	63	25 ... 63	1.5 ... 10	756
	100	40 ... 100	1.5 ... 10	1200
3VA21	25	10 ... 25	1.5 ... 10	300
	40	16 ... 40	1.5 ... 10	480
	63	25 ... 63	1.5 ... 10	756
	100	40 ... 100	1.5 ... 10	1200
	160	63 ... 160	1.5 ... 10	1600
3VA22	160	63 ... 160	1.5 ... 10	1920
	250	100 ... 250	1.5 ... 10	2500
3VA23	250	100 ... 250	1.5 ... 10	3000
	400	160 ... 400	1.5 ... 10	4000
3VA24	400	160 ... 400	1.5 ... 10	4800 <sup>1)</sup>
	630	250 ... 630	1.5 ... 9	5670
3VA25 <b>NEW</b>	630 <sup>2)</sup>	250 ... 630	1.5 ... 10	7560
	800	320 ... 800	1.5 ... 10	8000
	1000	400 ... 1000	1.5 ... 10	10000

3VA2025-5HN32-0AA0  
3VA2040-5HN32-0AA0  
3VA2063-5HN32-0AA0  
3VA2010-5HN32-0AA0

3VA2125-5HN32-0AA0  
3VA2140-5HN32-0AA0  
3VA2163-5HN32-0AA0  
3VA2110-5HN32-0AA0  
3VA2116-5HN32-0AA0

3VA2216-5HN32-0AA0  
3VA2225-5HN32-0AA0

3VA2325-5HN32-0AA0  
3VA2340-5HN32-0AA0

3VA2440-5HN32-0AA0  
3VA2463-5HN32-0AA0

3VA2563-5HN32-0AA0  
3VA2580-5HN32-0AA0  
3VA2510-5HN32-0AA0

<sup>1)</sup> At breaking capacity L 4400 A

<sup>2)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

## Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current  
 $I_n$ 

SD

 **$I_{cu}$  up to 85 kA at 415 V,  
high breaking capacity H**  
See "Overview", p. 2/6 and 2/7

H

Article No.  
[www.siemens.com/  
product?Article No.](http://www.siemens.com/product?Article No.)Basic price  
per PU

SD

 **$I_{cu}$  up to 110 kA at 415 V,  
very high switching capacity C**  
See "Overview", p. 2/6 and 2/7

C

Article No.  
[www.siemens.com/  
product?Article No.](http://www.siemens.com/product?Article No.)Basic price  
per PU

SD

 **$I_{cu}$  up to 150 kA at 415 V,  
extremely high switching capacity L**  
See "Overview", p. 2/6 and 2/7

L

Article No.  
[www.siemens.com/  
product?Article No.](http://www.siemens.com/product?Article No.)Basic price  
per PU

A

d

d

d

**Line and generator protection, ETU350 LSI**With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$  and fixed instantaneous ground-fault protection  $I_i$ 

## Connection with box terminal

25	3VA2025-6HN36-0AA0	3VA2025-7HN36-0AA0	3VA2025-8HN36-0AA0
40	3VA2040-6HN36-0AA0	3VA2040-7HN36-0AA0	3VA2040-8HN36-0AA0
63	3VA2063-6HN36-0AA0	3VA2063-7HN36-0AA0	3VA2063-8HN36-0AA0
100	3VA2010-6HN36-0AA0	3VA2010-7HN36-0AA0	3VA2010-8HN36-0AA0
25	3VA2125-6HN36-0AA0	3VA2125-7HN36-0AA0	3VA2125-8HN36-0AA0
40	3VA2140-6HN36-0AA0	3VA2140-7HN36-0AA0	3VA2140-8HN36-0AA0
63	3VA2163-6HN36-0AA0	3VA2163-7HN36-0AA0	3VA2163-8HN36-0AA0
100	3VA2110-6HN36-0AA0	3VA2110-7HN36-0AA0	3VA2110-8HN36-0AA0
160	3VA2116-6HN36-0AA0	3VA2116-7HN36-0AA0	3VA2116-8HN36-0AA0

## Connection with nut keeper kit

25	3VA2025-6HN32-0AA0	3VA2025-7HN32-0AA0	3VA2025-8HN32-0AA0
40	3VA2040-6HN32-0AA0	3VA2040-7HN32-0AA0	3VA2040-8HN32-0AA0
63	3VA2063-6HN32-0AA0	3VA2063-7HN32-0AA0	3VA2063-8HN32-0AA0
100	3VA2010-6HN32-0AA0	3VA2010-7HN32-0AA0	3VA2010-8HN32-0AA0
25	3VA2125-6HN32-0AA0	3VA2125-7HN32-0AA0	3VA2125-8HN32-0AA0
40	3VA2140-6HN32-0AA0	3VA2140-7HN32-0AA0	3VA2140-8HN32-0AA0
63	3VA2163-6HN32-0AA0	3VA2163-7HN32-0AA0	3VA2163-8HN32-0AA0
100	3VA2110-6HN32-0AA0	3VA2110-7HN32-0AA0	3VA2110-8HN32-0AA0
160	3VA2116-6HN32-0AA0	3VA2116-7HN32-0AA0	3VA2116-8HN32-0AA0
160	3VA2216-6HN32-0AA0	3VA2216-7HN32-0AA0	3VA2216-8HN32-0AA0
250	3VA2225-6HN32-0AA0	3VA2225-7HN32-0AA0	3VA2225-8HN32-0AA0
250	3VA2325-6HN32-0AA0	3VA2325-7HN32-0AA0	3VA2325-8HN32-0AA0
400	3VA2340-6HN32-0AA0	3VA2340-7HN32-0AA0	3VA2340-8HN32-0AA0
400	3VA2440-6HN32-0AA0	3VA2440-7HN32-0AA0	3VA2440-8HN32-0AA0
630	3VA2463-6HN32-0AA0	3VA2463-7HN32-0AA0	3VA2463-8HN32-0AA0
NEW 630 <sup>1)</sup>	3VA2563-6HN32-0AA0	3VA2563-7HN32-0AA0	--
800	3VA2580-6HN32-0AA0	3VA2580-7HN32-0AA0	--
1000	3VA2510-6HN32-0AA0	3VA2510-7HN32-0AA0	--

<sup>1)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

### 3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

#### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current  $I_n$ Current setting of the inverse-time delayed overload protection "L"  $I_r$ S function (short-time delayed short-circuit protection "S")  $I_{sd}$ Operating current of the instantaneous short-circuit protection "I"  $I_i$ 

SD

$I_{cu}$  up to 55 kA at 415 V, medium breaking capacity M

M

Article No. [www.siemens.com/product?Article.No.](http://www.siemens.com/product?Article.No.)

Basic price per PU

A

A

A

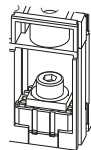
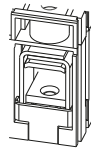
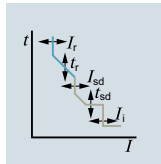
A

d

3-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A  
Electronic trip unit



I201\_18480



#### Line and generator protection, with display, ETU550 LSI

With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$  and adjustable instantaneous ground-fault protection  $I_i$

##### Connection with box terminal

3VA20	25	10 ... 25	15 ... 250	38 ... 300	3VA2025-5JP36-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2040-5JP36-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2063-5JP36-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2010-5JP36-0AA0
3VA21	25	10 ... 25	15 ... 250	38 ... 300	3VA2125-5JP36-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2140-5JP36-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2163-5JP36-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2110-5JP36-0AA0
	160	63 ... 160	96 ... 1600	240 ... 1600	3VA2116-5JP36-0AA0

##### Connection with nut keeper kit

3VA20	25	10 ... 25	15 ... 250	38 ... 300	3VA2025-5JP32-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2040-5JP32-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2063-5JP32-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2010-5JP32-0AA0
3VA21	25	10 ... 25	15 ... 250	38 ... 300	3VA2125-5JP32-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2140-5JP32-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2163-5JP32-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2110-5JP32-0AA0
	160	63 ... 160	96 ... 1600	240 ... 1600	3VA2116-5JP32-0AA0
3VA22	160	63 ... 160	96 ... 1600	240 ... 1920	3VA2216-5JP32-0AA0
	250	100 ... 250	150 ... 2500	375 ... 2500	3VA2225-5JP32-0AA0
3VA23	250	100 ... 250	150 ... 2500	375 ... 3000	3VA2325-5JP32-0AA0
	400	160 ... 400	240 ... 4000	600 ... 4000	3VA2340-5JP32-0AA0
3VA24	400	160 ... 400	240 ... 4000	600 ... 6000 <sup>1)</sup>	3VA2440-5JP32-0AA0
	500	200 ... 500	300 ... 5000	750 ... 7000	3VA2450-5JP32-0AA0
	630	250 ... 630	378 ... 5670	945 ... 5670	3VA2463-5JP32-0AA0
3VA25 <b>NEW</b>	630 <sup>2)</sup>	250 ... 630	378 ... 6300	945 ... 7560	3VA2563-5JP32-0AA0
	800	320 ... 800	480 ... 8000	1200 ... 8000	3VA2580-5JP32-0AA0
	1000	400 ... 1000	600 ... 10000	1500 ... 10000	3VA2510-5JP32-0AA0

<sup>1)</sup> At breaking capacity L 4400 A

<sup>2)</sup> Start of delivery scheduled for 1st quarter 2018



## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>		SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		SD	$I_{cu}$ up to 150 kA at 415 V, extremely high switching capacity L <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">L</span>	
		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d			d		

2

**Line and generator protection, with display, ETU550 LSI**With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$  and adjustable instantaneous ground-fault protection  $I_f$ **Connection with box terminal**

25	3VA2025-6JP36-0AA0	3VA2025-7JP36-0AA0	3VA2025-8JP36-0AA0
40	3VA2040-6JP36-0AA0	3VA2040-7JP36-0AA0	3VA2040-8JP36-0AA0
63	3VA2063-6JP36-0AA0	3VA2063-7JP36-0AA0	3VA2063-8JP36-0AA0
100	3VA2010-6JP36-0AA0	3VA2010-7JP36-0AA0	3VA2010-8JP36-0AA0
25	3VA2125-6JP36-0AA0	3VA2125-7JP36-0AA0	3VA2125-8JP36-0AA0
40	3VA2140-6JP36-0AA0	3VA2140-7JP36-0AA0	3VA2140-8JP36-0AA0
63	3VA2163-6JP36-0AA0	3VA2163-7JP36-0AA0	3VA2163-8JP36-0AA0
100	3VA2110-6JP36-0AA0	3VA2110-7JP36-0AA0	3VA2110-8JP36-0AA0
160	3VA2116-6JP36-0AA0	3VA2116-7JP36-0AA0	3VA2116-8JP36-0AA0

**Connection with nut keeper kit**

25	3VA2025-6JP32-0AA0	3VA2025-7JP32-0AA0	3VA2025-8JP32-0AA0
40	3VA2040-6JP32-0AA0	3VA2040-7JP32-0AA0	3VA2040-8JP32-0AA0
63	3VA2063-6JP32-0AA0	3VA2063-7JP32-0AA0	3VA2063-8JP32-0AA0
100	3VA2010-6JP32-0AA0	3VA2010-7JP32-0AA0	3VA2010-8JP32-0AA0
25	3VA2125-6JP32-0AA0	3VA2125-7JP32-0AA0	3VA2125-8JP32-0AA0
40	3VA2140-6JP32-0AA0	3VA2140-7JP32-0AA0	3VA2140-8JP32-0AA0
63	3VA2163-6JP32-0AA0	3VA2163-7JP32-0AA0	3VA2163-8JP32-0AA0
100	3VA2110-6JP32-0AA0	3VA2110-7JP32-0AA0	3VA2110-8JP32-0AA0
160	3VA2116-6JP32-0AA0	3VA2116-7JP32-0AA0	3VA2116-8JP32-0AA0
160	3VA2216-6JP32-0AA0	3VA2216-7JP32-0AA0	3VA2216-8JP32-0AA0
250	3VA2225-6JP32-0AA0	3VA2225-7JP32-0AA0	3VA2225-8JP32-0AA0
250	3VA2325-6JP32-0AA0	3VA2325-7JP32-0AA0	3VA2325-8JP32-0AA0
400	3VA2340-6JP32-0AA0	3VA2340-7JP32-0AA0	3VA2340-8JP32-0AA0
400	3VA2440-6JP32-0AA0	3VA2440-7JP32-0AA0	3VA2440-8JP32-0AA0
500	3VA2450-6JP32-0AA0	3VA2450-7JP32-0AA0	--
630	3VA2463-6JP32-0AA0	3VA2463-7JP32-0AA0	3VA2463-8JP32-0AA0
<b>NEW</b> 630 <sup>1)</sup>	3VA2563-6JP32-0AA0	3VA2563-7JP32-0AA0	--
800	3VA2580-6JP32-0AA0	3VA2580-7JP32-0AA0	--
1000	3VA2510-6JP32-0AA0	3VA2510-7JP32-0AA0	--

<sup>1)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

### 3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

#### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2

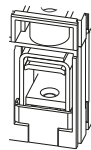
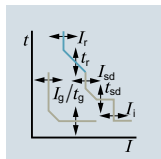


Connection technology	Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	S function (short-time delayed short-circuit protection "S") $I_{sd}$	Operating current of the instantaneous short-circuit protection "I" $I_i$	SD	$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7
		A	A	A	A	d	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a> Basic price per PU

3-pole, fixed-mounted, **3VA20 to 3VA24**, up to 630 A  
Electronic trip unit



I201\_16481

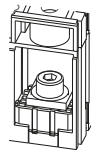


#### Line and generator protection, with display, ETU560 LSIG

With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault protection  $I_g$

##### Connection with box terminal

3VA20	25	10 ... 25	15 ... 250	38 ... 300	<b>3VA2025-5JQ36-0AA0</b> <b>3VA2040-5JQ36-0AA0</b> <b>3VA2063-5JQ36-0AA0</b> <b>3VA2010-5JQ36-0AA0</b>
	40	16 ... 40	24 ... 400	60 ... 480	
	63	25 ... 63	38 ... 630	95 ... 756	
	100	40 ... 100	60 ... 1000	150 ... 1200	
3VA21	25	10 ... 25	15 ... 250	38 ... 300	<b>3VA2125-5JQ36-0AA0</b> <b>3VA2140-5JQ36-0AA0</b> <b>3VA2163-5JQ36-0AA0</b> <b>3VA2110-5JQ36-0AA0</b> <b>3VA2116-5JQ36-0AA0</b>
	40	16 ... 40	24 ... 400	60 ... 480	
	63	25 ... 63	38 ... 630	95 ... 756	
	100	40 ... 100	60 ... 1000	150 ... 1200	
	160	63 ... 160	96 ... 1600	240 ... 1600	



##### Connection with nut keeper kit

3VA20	25	10 ... 25	15 ... 250	38 ... 300	<b>3VA2025-5JQ32-0AA0</b> <b>3VA2040-5JQ32-0AA0</b> <b>3VA2063-5JQ32-0AA0</b> <b>3VA2010-5JQ32-0AA0</b>
	40	16 ... 40	24 ... 400	60 ... 480	
	63	25 ... 63	38 ... 630	95 ... 756	
	100	40 ... 100	60 ... 1000	150 ... 1200	
3VA21	25	10 ... 25	15 ... 250	38 ... 300	<b>3VA2125-5JQ32-0AA0</b> <b>3VA2140-5JQ32-0AA0</b> <b>3VA2163-5JQ32-0AA0</b> <b>3VA2110-5JQ32-0AA0</b> <b>3VA2116-5JQ32-0AA0</b>
	40	16 ... 40	24 ... 400	60 ... 480	
	63	25 ... 63	38 ... 630	95 ... 756	
	100	40 ... 100	60 ... 1000	150 ... 1200	
	160	63 ... 160	96 ... 1600	240 ... 1600	
3VA22	160	63 ... 160	96 ... 1600	240 ... 1920	<b>3VA2216-5JQ32-0AA0</b> <b>3VA2225-5JQ32-0AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	
3VA23	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA2325-5JQ32-0AA0</b> <b>3VA2340-5JQ32-0AA0</b>
	400	160 ... 400	240 ... 4000	600 ... 4000	
3VA24	400	160 ... 400	240 ... 4000	600 ... 6000 <sup>1)</sup>	<b>3VA2440-5JQ32-0AA0</b> <b>3VA2450-5JQ32-0AA0</b> <b>3VA2463-5JQ32-0AA0</b>
	500	200 ... 500	300 ... 5000	750 ... 7000	
	630	250 ... 630	378 ... 5670	945 ... 5670	

<sup>1)</sup> At breaking capacity L 4400 A

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>		SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		SD	$I_{cu}$ up to 150 kA at 415 V, extremely high switching capacity L <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">L</span>	
		See "Overview", p. 2/6 and 2/7			See "Overview", p. 2/6 and 2/7			See "Overview", p. 2/6 and 2/7	
		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d			d		

2

**Line and generator protection, with display, ETU560 LSG**

With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault protection  $I_g$

**Connection with box terminal**

25	3VA2025-6JQ36-0AA0	3VA2025-7JQ36-0AA0	3VA2025-8JQ36-0AA0
40	3VA2040-6JQ36-0AA0	3VA2040-7JQ36-0AA0	3VA2040-8JQ36-0AA0
63	3VA2063-6JQ36-0AA0	3VA2063-7JQ36-0AA0	3VA2063-8JQ36-0AA0
100	3VA2010-6JQ36-0AA0	3VA2010-7JQ36-0AA0	3VA2010-8JQ36-0AA0
25	3VA2125-6JQ36-0AA0	3VA2125-7JQ36-0AA0	3VA2125-8JQ36-0AA0
40	3VA2140-6JQ36-0AA0	3VA2140-7JQ36-0AA0	3VA2140-8JQ36-0AA0
63	3VA2163-6JQ36-0AA0	3VA2163-7JQ36-0AA0	3VA2163-8JQ36-0AA0
100	3VA2110-6JQ36-0AA0	3VA2110-7JQ36-0AA0	3VA2110-8JQ36-0AA0
160	3VA2116-6JQ36-0AA0	3VA2116-7JQ36-0AA0	3VA2116-8JQ36-0AA0

**Connection with nut keeper kit**

25	3VA2025-6JQ32-0AA0	3VA2025-7JQ32-0AA0	3VA2025-8JQ32-0AA0
40	3VA2040-6JQ32-0AA0	3VA2040-7JQ32-0AA0	3VA2040-8JQ32-0AA0
63	3VA2063-6JQ32-0AA0	3VA2063-7JQ32-0AA0	3VA2063-8JQ32-0AA0
100	3VA2010-6JQ32-0AA0	3VA2010-7JQ32-0AA0	3VA2010-8JQ32-0AA0
25	3VA2125-6JQ32-0AA0	3VA2125-7JQ32-0AA0	3VA2125-8JQ32-0AA0
40	3VA2140-6JQ32-0AA0	3VA2140-7JQ32-0AA0	3VA2140-8JQ32-0AA0
63	3VA2163-6JQ32-0AA0	3VA2163-7JQ32-0AA0	3VA2163-8JQ32-0AA0
100	3VA2110-6JQ32-0AA0	3VA2110-7JQ32-0AA0	3VA2110-8JQ32-0AA0
160	3VA2116-6JQ32-0AA0	3VA2116-7JQ32-0AA0	3VA2116-8JQ32-0AA0
160	3VA2216-6JQ32-0AA0	3VA2216-7JQ32-0AA0	3VA2216-8JQ32-0AA0
250	3VA2225-6JQ32-0AA0	3VA2225-7JQ32-0AA0	3VA2225-8JQ32-0AA0
250	3VA2325-6JQ32-0AA0	3VA2325-7JQ32-0AA0	3VA2325-8JQ32-0AA0
400	3VA2340-6JQ32-0AA0	3VA2340-7JQ32-0AA0	3VA2340-8JQ32-0AA0
400	3VA2440-6JQ32-0AA0	3VA2440-7JQ32-0AA0	3VA2440-8JQ32-0AA0
500	3VA2450-6JQ32-0AA0	3VA2450-7JQ32-0AA0	--
630	3VA2463-6JQ32-0AA0	3VA2463-7JQ32-0AA0	3VA2463-8JQ32-0AA0

## Molded Case Circuit Breakers

### 3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

#### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2

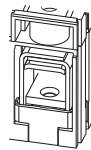
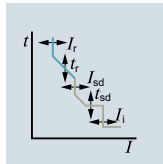


Connection technology	Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	S function (short-time delayed short-circuit protection "S") $I_{sd}$	Operating current of the instantaneous short-circuit protection "I" $I_i$	SD	$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Basic price per PU
		A	A	A	A	d			

3-pole, fixed-mounted, **3VA20 to 3VA24**, up to 630 A  
Electronic trip unit



I201\_18482

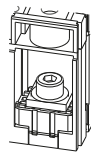


#### Line and generator protection, with display, with metering function, ETU850 LSI

With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$  and adjustable instantaneous ground-fault protection  $I_i$

##### Connection with box terminal

3VA20	25	10 ... 25	15 ... 250	38 ... 300	3VA2025-5KP36-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2040-5KP36-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2063-5KP36-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2010-5KP36-0AA0
3VA21	25	10 ... 25	15 ... 250	38 ... 300	3VA2125-5KP36-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2140-5KP36-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2163-5KP36-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2110-5KP36-0AA0
	160	63 ... 160	96 ... 1600	240 ... 1600	3VA2116-5KP36-0AA0



##### Connection with nut keeper kit

3VA20	25	10 ... 25	15 ... 250	38 ... 300	3VA2025-5KP32-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2040-5KP32-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2063-5KP32-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2010-5KP32-0AA0
3VA21	25	10 ... 25	15 ... 250	38 ... 300	3VA2125-5KP32-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2140-5KP32-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2163-5KP32-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2110-5KP32-0AA0
	160	63 ... 160	96 ... 1600	240 ... 1600	3VA2116-5KP32-0AA0
3VA22	160	63 ... 160	96 ... 1600	240 ... 1920	3VA2216-5KP32-0AA0
	250	100 ... 250	150 ... 2500	375 ... 2500	3VA2225-5KP32-0AA0
3VA23	250	100 ... 250	150 ... 2500	375 ... 3000	3VA2325-5KP32-0AA0
	400	160 ... 400	240 ... 4000	600 ... 4000	3VA2340-5KP32-0AA0
3VA24	400	160 ... 400	240 ... 4000	600 ... 6000 <sup>1)</sup>	3VA2440-5KP32-0AA0
	500	200 ... 500	300 ... 5000	750 ... 7000	3VA2450-5KP32-0AA0
	630	250 ... 630	378 ... 5670	945 ... 5670	3VA2463-5KP32-0AA0

<sup>1)</sup> At breaking capacity L 4400 A

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>		SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		SD	$I_{cu}$ up to 150 kA at 415 V, extremely high switching capacity L <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">L</span>	
		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d			d		

2

**Line and generator protection, with display, with metering function, ETU850 LSI**With adjustable overload protection  $I_p$ , adjustable delayed short-circuit protection  $I_{sd}$  and adjustable instantaneous ground-fault protection  $I_i$ **Connection with box terminal**

25	3VA2025-6KP36-0AA0	3VA2025-7KP36-0AA0	3VA2025-8KP36-0AA0
40	3VA2040-6KP36-0AA0	3VA2040-7KP36-0AA0	3VA2040-8KP36-0AA0
63	3VA2063-6KP36-0AA0	3VA2063-7KP36-0AA0	3VA2063-8KP36-0AA0
100	3VA2010-6KP36-0AA0	3VA2010-7KP36-0AA0	3VA2010-8KP36-0AA0
25	3VA2125-6KP36-0AA0	3VA2125-7KP36-0AA0	3VA2125-8KP36-0AA0
40	3VA2140-6KP36-0AA0	3VA2140-7KP36-0AA0	3VA2140-8KP36-0AA0
63	3VA2163-6KP36-0AA0	3VA2163-7KP36-0AA0	3VA2163-8KP36-0AA0
100	3VA2110-6KP36-0AA0	3VA2110-7KP36-0AA0	3VA2110-8KP36-0AA0
160	3VA2116-6KP36-0AA0	3VA2116-7KP36-0AA0	3VA2116-8KP36-0AA0

**Connection with nut keeper kit**

25	3VA2025-6KP32-0AA0	3VA2025-7KP32-0AA0	3VA2025-8KP32-0AA0
40	3VA2040-6KP32-0AA0	3VA2040-7KP32-0AA0	3VA2040-8KP32-0AA0
63	3VA2063-6KP32-0AA0	3VA2063-7KP32-0AA0	3VA2063-8KP32-0AA0
100	3VA2010-6KP32-0AA0	3VA2010-7KP32-0AA0	3VA2010-8KP32-0AA0
25	3VA2125-6KP32-0AA0	3VA2125-7KP32-0AA0	3VA2125-8KP32-0AA0
40	3VA2140-6KP32-0AA0	3VA2140-7KP32-0AA0	3VA2140-8KP32-0AA0
63	3VA2163-6KP32-0AA0	3VA2163-7KP32-0AA0	3VA2163-8KP32-0AA0
100	3VA2110-6KP32-0AA0	3VA2110-7KP32-0AA0	3VA2110-8KP32-0AA0
160	3VA2116-6KP32-0AA0	3VA2116-7KP32-0AA0	3VA2116-8KP32-0AA0
160	3VA2216-6KP32-0AA0	3VA2216-7KP32-0AA0	3VA2216-8KP32-0AA0
250	3VA2225-6KP32-0AA0	3VA2225-7KP32-0AA0	3VA2225-8KP32-0AA0
250	3VA2325-6KP32-0AA0	3VA2325-7KP32-0AA0	3VA2325-8KP32-0AA0
400	3VA2340-6KP32-0AA0	3VA2340-7KP32-0AA0	3VA2340-8KP32-0AA0
400	3VA2440-6KP32-0AA0	3VA2440-7KP32-0AA0	3VA2440-8KP32-0AA0
500	3VA2450-6KP32-0AA0	3VA2450-7KP32-0AA0	—
630	3VA2463-6KP32-0AA0	3VA2463-7KP32-0AA0	3VA2463-8KP32-0AA0

## Molded Case Circuit Breakers

### 3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

#### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current  $I_n$ Current setting of the inverse-time delayed overload protection "L"  $I_r$ S function (short-time delayed short-circuit protection "S")  $I_{sd}$ Operating current of the instantaneous short-circuit protection "I"  $I_i$ 

SD

$I_{cu}$  up to 55 kA at 415 V, medium breaking capacity M (M)  
See "Overview", p. 2/6 and 2/7

Article No.  
[www.siemens.com/product?Article No.](http://www.siemens.com/product?Article No.)

Basic price per PU

A

A

A

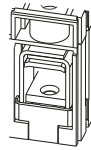
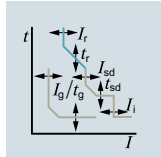
A

d

3-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A  
Electronic trip unit



I201\_18483

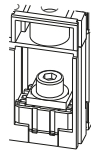


#### Line and generator protection, with display, with metering function, ETU860 LSIG

With adjustable overload protection  $I_n$ , adjustable delayed short-circuit protection  $I_{sd}$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault protection  $I_g$

##### Connection with box terminal

3VA20	25	10 ... 25	15 ... 250	38 ... 300	<b>3VA2025-5KQ36-0AA0</b>
	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA2040-5KQ36-0AA0</b>
	63	25 ... 63	38 ... 630	95 ... 756	<b>3VA2063-5KQ36-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA2010-5KQ36-0AA0</b>
3VA21	25	10 ... 25	15 ... 250	38 ... 300	<b>3VA2125-5KQ36-0AA0</b>
	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA2140-5KQ36-0AA0</b>
	63	25 ... 63	38 ... 630	95 ... 756	<b>3VA2163-5KQ36-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA2110-5KQ36-0AA0</b>
	160	63 ... 160	96 ... 1600	240 ... 1600	<b>3VA2116-5KQ36-0AA0</b>



##### Connection with nut keeper kit

3VA20	25	10 ... 25	15 ... 250	38 ... 300	<b>3VA2025-5KQ32-0AA0</b>
	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA2040-5KQ32-0AA0</b>
	63	25 ... 63	38 ... 630	95 ... 756	<b>3VA2063-5KQ32-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA2010-5KQ32-0AA0</b>
3VA21	25	10 ... 25	15 ... 250	38 ... 300	<b>3VA2125-5KQ32-0AA0</b>
	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA2140-5KQ32-0AA0</b>
	63	25 ... 63	38 ... 630	95 ... 756	<b>3VA2163-5KQ32-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA2110-5KQ32-0AA0</b>
	160	63 ... 160	96 ... 1600	240 ... 1600	<b>3VA2116-5KQ32-0AA0</b>
3VA22	160	63 ... 160	96 ... 1600	240 ... 1920	<b>3VA2216-5KQ32-0AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA2225-5KQ32-0AA0</b>
3VA23	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA2325-5KQ32-0AA0</b>
	400	160 ... 400	240 ... 4000	600 ... 4000	<b>3VA2340-5KQ32-0AA0</b>
3VA24	400	160 ... 400	240 ... 4000	600 ... 6000 <sup>1)</sup>	<b>3VA2440-5KQ32-0AA0</b>
	500	200 ... 500	300 ... 5000	750 ... 7000	<b>3VA2450-5KQ32-0AA0</b>
	630	250 ... 630	378 ... 5670	945 ... 5670	<b>3VA2463-5KQ32-0AA0</b>
3VA25 <b>NEW</b>	630 <sup>2)</sup>	250 ... 630	378 ... 6300	945 ... 7560	<b>3VA2563-5KQ32-0AA0</b>
	800	320 ... 800	480 ... 8000	1200 ... 8000	<b>3VA2580-5KQ32-0AA0</b>
	1000	400 ... 1000	600 ... 10000	1500 ... 10000	<b>3VA2510-5KQ32-0AA0</b>

<sup>1)</sup> At breaking capacity L 4400 A

<sup>2)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>		SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		SD	$I_{cu}$ up to 150 kA at 415 V, extremely high switching capacity L <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">L</span>	
		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d			d		

2

**Line and generator protection, with display, with metering function, ETU860 LSIG**With adjustable overload protection  $I_n$ , adjustable delayed short-circuit protection  $I_{sd}$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault protection  $I_g$ **Connection with box terminal**

25	3VA2025-6KQ36-0AA0	3VA2025-7KQ36-0AA0	3VA2025-8KQ36-0AA0
40	3VA2040-6KQ36-0AA0	3VA2040-7KQ36-0AA0	3VA2040-8KQ36-0AA0
63	3VA2063-6KQ36-0AA0	3VA2063-7KQ36-0AA0	3VA2063-8KQ36-0AA0
100	3VA2010-6KQ36-0AA0	3VA2010-7KQ36-0AA0	3VA2010-8KQ36-0AA0
25	3VA2125-6KQ36-0AA0	3VA2125-7KQ36-0AA0	3VA2125-8KQ36-0AA0
40	3VA2140-6KQ36-0AA0	3VA2140-7KQ36-0AA0	3VA2140-8KQ36-0AA0
63	3VA2163-6KQ36-0AA0	3VA2163-7KQ36-0AA0	3VA2163-8KQ36-0AA0
100	3VA2110-6KQ36-0AA0	3VA2110-7KQ36-0AA0	3VA2110-8KQ36-0AA0
160	3VA2116-6KQ36-0AA0	3VA2116-7KQ36-0AA0	3VA2116-8KQ36-0AA0

**Connection with nut keeper kit**

25	3VA2025-6KQ32-0AA0	3VA2025-7KQ32-0AA0	3VA2025-8KQ32-0AA0
40	3VA2040-6KQ32-0AA0	3VA2040-7KQ32-0AA0	3VA2040-8KQ32-0AA0
63	3VA2063-6KQ32-0AA0	3VA2063-7KQ32-0AA0	3VA2063-8KQ32-0AA0
100	3VA2010-6KQ32-0AA0	3VA2010-7KQ32-0AA0	3VA2010-8KQ32-0AA0
25	3VA2125-6KQ32-0AA0	3VA2125-7KQ32-0AA0	3VA2125-8KQ32-0AA0
40	3VA2140-6KQ32-0AA0	3VA2140-7KQ32-0AA0	3VA2140-8KQ32-0AA0
63	3VA2163-6KQ32-0AA0	3VA2163-7KQ32-0AA0	3VA2163-8KQ32-0AA0
100	3VA2110-6KQ32-0AA0	3VA2110-7KQ32-0AA0	3VA2110-8KQ32-0AA0
160	3VA2216-6KQ32-0AA0	3VA2216-7KQ32-0AA0	3VA2216-8KQ32-0AA0
250	3VA2225-6KQ32-0AA0	3VA2225-7KQ32-0AA0	3VA2225-8KQ32-0AA0
250	3VA2325-6KQ32-0AA0	3VA2325-7KQ32-0AA0	3VA2325-8KQ32-0AA0
400	3VA2340-6KQ32-0AA0	3VA2340-7KQ32-0AA0	3VA2340-8KQ32-0AA0
400	3VA2440-6KQ32-0AA0	3VA2440-7KQ32-0AA0	3VA2440-8KQ32-0AA0
500	3VA2450-6KQ32-0AA0	3VA2450-7KQ32-0AA0	--
630	3VA2463-6KQ32-0AA0	3VA2463-7KQ32-0AA0	3VA2463-8KQ32-0AA0
<b>NEW</b> 630 <sup>1)</sup>	3VA2563-6KQ32-0AA0	3VA2563-7KQ32-0AA0	--
800	3VA2580-6KQ32-0AA0	3VA2580-7KQ32-0AA0	--
1000	3VA2510-6KQ32-0AA0	3VA2510-7KQ32-0AA0	--

<sup>1)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2



Connection technology

Type

Rated current  $I_n$

Current setting of the inverse-time delayed overload protection "L"  $I_r$

Operating current of the instantaneous short-circuit protection "I"  $I_i$

SD

$I_{cu}$  up to 55 kA at 415 V, medium breaking capacity M

See "Overview", p. 2/6 and 2/7

(M)

Article No.  
[www.siemens.com/product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)

Basic price per PU

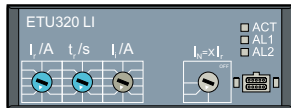
A

A

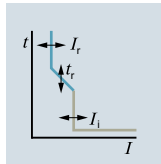
A

d

4-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A  
Electronic trip unit



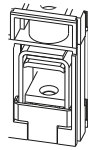
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#### Line protection, ETU320 LI

With adjustable overload protection  $I_r$  and adjustable instantaneous short-circuit protection  $I_i$ , with neutral protection against overload and short circuit 0%, 50% or 100% (50% only from  $I_n \geq 100$  A)

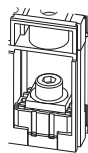
#### Connection with box terminal



3VA20	25	10 ... 25	38 ... 300
	40	16 ... 40	60 ... 480
	63	25 ... 63	95 ... 756
	100	40 ... 100	150 ... 1200
3VA21	25	10 ... 25	38 ... 300
	40	16 ... 40	60 ... 480
	63	25 ... 63	95 ... 756
	100	40 ... 100	150 ... 1200
	160	63 ... 160	240 ... 1600

3VA2025-5HL46-0AA0  
3VA2040-5HL46-0AA0  
3VA2063-5HL46-0AA0  
3VA2010-5HL46-0AA0

#### Connection with nut keeper kit



3VA20	25	10 ... 25	38 ... 300
	40	16 ... 40	60 ... 480
	63	25 ... 63	95 ... 756
	100	40 ... 100	150 ... 1200
3VA21	25	10 ... 25	38 ... 300
	40	16 ... 40	60 ... 480
	63	25 ... 63	95 ... 756
	100	40 ... 100	150 ... 1200
	160	63 ... 160	240 ... 1600
3VA22	160	63 ... 160	240 ... 1920
	250	100 ... 250	375 ... 2500
3VA23	250	100 ... 250	375 ... 3000
	400	160 ... 400	600 ... 4000
3VA24	400	160 ... 400	600 ... 4800 <sup>1)</sup>
	630	250 ... 630	945 ... 5670
3VA25	630 <sup>2)</sup>	250 ... 630	945 ... 7560
	800	320 ... 800	1200 ... 8000
	1000	400 ... 1000	1500 ... 10000

3VA2025-5HL42-0AA0  
3VA2040-5HL42-0AA0  
3VA2063-5HL42-0AA0  
3VA2010-5HL42-0AA0

3VA2125-5HL42-0AA0  
3VA2140-5HL42-0AA0  
3VA2163-5HL42-0AA0  
3VA2110-5HL42-0AA0  
3VA2116-5HL42-0AA0

<sup>1)</sup> At breaking capacity L 4400 A

<sup>2)</sup> Start of delivery scheduled for 1st quarter 2018



## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

## Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>	Basic price per PU	SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>	Basic price per PU	SD	$I_{cu}$ up to 150 kA at 415 V, extremely high switching capacity L <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">L</span>	Basic price per PU
A	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>		d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>		d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	

2

**Line protection, ETU320 LI**

With adjustable overload protection  $I_r$  and adjustable instantaneous short-circuit protection  $I_i$ , with neutral protection against overload and short circuit 0%, 50% or 100% (50% only from  $I_n \geq 100$  A)

**Connection with box terminal**

25	3VA2025-6HL46-0AA0	3VA2025-7HL46-0AA0	3VA2025-8HL46-0AA0
40	3VA2040-6HL46-0AA0	3VA2040-7HL46-0AA0	3VA2040-8HL46-0AA0
63	3VA2063-6HL46-0AA0	3VA2063-7HL46-0AA0	3VA2063-8HL46-0AA0
100	3VA2010-6HL46-0AA0	3VA2010-7HL46-0AA0	3VA2010-8HL46-0AA0
25	3VA2125-6HL46-0AA0	3VA2125-7HL46-0AA0	3VA2125-8HL46-0AA0
40	3VA2140-6HL46-0AA0	3VA2140-7HL46-0AA0	3VA2140-8HL46-0AA0
63	3VA2163-6HL46-0AA0	3VA2163-7HL46-0AA0	3VA2163-8HL46-0AA0
100	3VA2110-6HL46-0AA0	3VA2110-7HL46-0AA0	3VA2110-8HL46-0AA0
160	3VA2116-6HL46-0AA0	3VA2116-7HL46-0AA0	3VA2116-8HL46-0AA0

**Connection with nut keeper kit**

25	3VA2025-6HL42-0AA0	3VA2025-7HL42-0AA0	3VA2025-8HL42-0AA0
40	3VA2040-6HL42-0AA0	3VA2040-7HL42-0AA0	3VA2040-8HL42-0AA0
63	3VA2063-6HL42-0AA0	3VA2063-7HL42-0AA0	3VA2063-8HL42-0AA0
100	3VA2010-6HL42-0AA0	3VA2010-7HL42-0AA0	3VA2010-8HL42-0AA0
25	3VA2125-6HL42-0AA0	3VA2125-7HL42-0AA0	3VA2125-8HL42-0AA0
40	3VA2140-6HL42-0AA0	3VA2140-7HL42-0AA0	3VA2140-8HL42-0AA0
63	3VA2163-6HL42-0AA0	3VA2163-7HL42-0AA0	3VA2163-8HL42-0AA0
100	3VA2110-6HL42-0AA0	3VA2110-7HL42-0AA0	3VA2110-8HL42-0AA0
160	3VA2116-6HL42-0AA0	3VA2116-7HL42-0AA0	3VA2116-8HL42-0AA0
160	3VA2216-6HL42-0AA0	3VA2216-7HL42-0AA0	3VA2216-8HL42-0AA0
250	3VA2225-6HL42-0AA0	3VA2225-7HL42-0AA0	3VA2225-8HL42-0AA0
250	3VA2325-6HL42-0AA0	3VA2325-7HL42-0AA0	3VA2325-8HL42-0AA0
400	3VA2340-6HL42-0AA0	3VA2340-7HL42-0AA0	3VA2340-8HL42-0AA0
400	3VA2440-6HL42-0AA0	3VA2440-7HL42-0AA0	3VA2440-8HL42-0AA0
630	3VA2463-6HL42-0AA0	3VA2463-7HL42-0AA0	3VA2463-8HL42-0AA0
<b>NEW</b> 630 <sup>1)</sup>	3VA2563-6HL42-0AA0	3VA2563-7HL42-0AA0	--
800	3VA2580-6HL42-0AA0	3VA2580-7HL42-0AA0	--
1000	3VA2510-6HL42-0AA0	3VA2510-7HL42-0AA0	--

<sup>1)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

### 3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

#### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current  $I_n$ Current setting of the inverse-time delayed overload protection "L"  $I_r$ Operating current of the instantaneous short-circuit protection "I"  $I_i$ Ground-fault SD protection G  $I_g$ 

$I_{cu}$  up to 55 kA at 415 V, medium breaking capacity M (M)  
See "Overview", p. 2/6 and 2/7

Article No.  
[www.siemens.com/product?Article No.](http://www.siemens.com/product?Article No.)

Basic price per PU

A

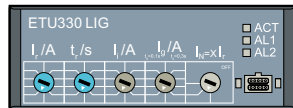
A

A

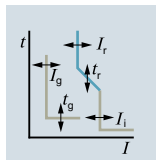
A

d

#### 4-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A Electronic trip unit



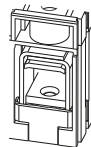
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#### Line protection, ETU330 LIG

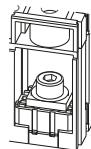
With adjustable overload protection  $I_r$ , adjustable instantaneous short-circuit protection  $I_i$ , with neutral protection against overload and short circuit 0%, 50% or 100% (50% only from  $I_n \geq 100$  A) and adjustable ground-fault protection  $I_g$

#### Connection with box terminal



3VA20	25	10 ... 25	38 ... 300	15 ... 25	3VA2025-5HM46-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	3VA2040-5HM46-0AA0
	63	25 ... 63	95 ... 756	16 ... 63	3VA2063-5HM46-0AA0
	100	40 ... 100	150 ... 1200	20 ... 100	3VA2010-5HM46-0AA0
3VA21	25	10 ... 25	38 ... 300	15 ... 25	3VA2125-5HM46-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	3VA2140-5HM46-0AA0
	63	25 ... 63	95 ... 756	16 ... 63	3VA2163-5HM46-0AA0
	100	40 ... 100	150 ... 1200	20 ... 100	3VA2110-5HM46-0AA0
	160	63 ... 160	240 ... 1600	32 ... 160	3VA2116-5HM46-0AA0

#### Connection with nut keeper kit



3VA20	25	10 ... 25	38 ... 300	15 ... 25	3VA2025-5HM42-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	3VA2040-5HM42-0AA0
	63	25 ... 63	95 ... 756	16 ... 63	3VA2063-5HM42-0AA0
	100	40 ... 100	150 ... 1200	20 ... 100	3VA2010-5HM42-0AA0
3VA21	25	10 ... 25	38 ... 300	15 ... 25	3VA2125-5HM42-0AA0
	40	16 ... 40	60 ... 480	16 ... 40	3VA2140-5HM42-0AA0
	63	25 ... 63	95 ... 756	16 ... 63	3VA2163-5HM42-0AA0
	100	40 ... 100	150 ... 1200	20 ... 100	3VA2110-5HM42-0AA0
	160	63 ... 160	240 ... 1600	32 ... 160	3VA2116-5HM42-0AA0
3VA22	160	63 ... 160	240 ... 1920	32 ... 160	3VA2216-5HM42-0AA0
	250	100 ... 250	375 ... 2500	50 ... 250	3VA2225-5HM42-0AA0
3VA23	250	100 ... 250	375 ... 3000	50 ... 250	3VA2325-5HM42-0AA0
	400	160 ... 400	600 ... 4000	80 ... 400	3VA2340-5HM42-0AA0
3VA24	400	160 ... 400	600 ... 4800 <sup>1)</sup>	80 ... 400	3VA2440-5HM42-0AA0
	630	250 ... 630	945 ... 5670	126 ... 630	3VA2463-5HM42-0AA0
3VA25 <b>NEW</b>	630 <sup>2)</sup>	250 ... 630	945 ... 7560	126 ... 630	3VA2563-5HM42-0AA0
	800	320 ... 800	1200 ... 8000	160 ... 800	3VA2580-5HM42-0AA0
	1000	400 ... 1000	1500 ... 10000	200 ... 1000	3VA2510-5HM42-0AA0

<sup>1)</sup> At breaking capacity L 4400 A

<sup>2)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

## 3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

## Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>	Basic price per PU	SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>	Basic price per PU	SD	$I_{cu}$ up to 150 kA at 415 V, extremely high switching capacity L <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">L</span>	Basic price per PU
A	d	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>		d	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>		d	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	

**Line protection, ETU330 LIG**

With adjustable overload protection  $I_n$ , adjustable instantaneous short-circuit protection  $I_i$ , with neutral protection against overload and short circuit 0%, 50% or 100% (50% only from  $I_n \geq 100$  A) and adjustable ground-fault protection  $I_g$

**Connection with box terminal**

25	3VA2025-6HM46-0AA0	3VA2025-7HM46-0AA0	3VA2025-8HM46-0AA0
40	3VA2040-6HM46-0AA0	3VA2040-7HM46-0AA0	3VA2040-8HM46-0AA0
63	3VA2063-6HM46-0AA0	3VA2063-7HM46-0AA0	3VA2063-8HM46-0AA0
100	3VA2010-6HM46-0AA0	3VA2010-7HM46-0AA0	3VA2010-8HM46-0AA0
25	3VA2125-6HM46-0AA0	3VA2125-7HM46-0AA0	3VA2125-8HM46-0AA0
40	3VA2140-6HM46-0AA0	3VA2140-7HM46-0AA0	3VA2140-8HM46-0AA0
63	3VA2163-6HM46-0AA0	3VA2163-7HM46-0AA0	3VA2163-8HM46-0AA0
100	3VA2110-6HM46-0AA0	3VA2110-7HM46-0AA0	3VA2110-8HM46-0AA0
160	3VA2116-6HM46-0AA0	3VA2116-7HM46-0AA0	3VA2116-8HM46-0AA0

**Connection with nut keeper kit**

25	3VA2025-6HM42-0AA0	3VA2025-7HM42-0AA0	3VA2025-8HM42-0AA0
40	3VA2040-6HM42-0AA0	3VA2040-7HM42-0AA0	3VA2040-8HM42-0AA0
63	3VA2063-6HM42-0AA0	3VA2063-7HM42-0AA0	3VA2063-8HM42-0AA0
100	3VA2010-6HM42-0AA0	3VA2010-7HM42-0AA0	3VA2010-8HM42-0AA0
25	3VA2125-6HM42-0AA0	3VA2125-7HM42-0AA0	3VA2125-8HM42-0AA0
40	3VA2140-6HM42-0AA0	3VA2140-7HM42-0AA0	3VA2140-8HM42-0AA0
63	3VA2163-6HM42-0AA0	3VA2163-7HM42-0AA0	3VA2163-8HM42-0AA0
100	3VA2110-6HM42-0AA0	3VA2110-7HM42-0AA0	3VA2110-8HM42-0AA0
160	3VA2116-6HM42-0AA0	3VA2116-7HM42-0AA0	3VA2116-8HM42-0AA0
160	3VA2216-6HM42-0AA0	3VA2216-7HM42-0AA0	3VA2216-8HM42-0AA0
250	3VA2225-6HM42-0AA0	3VA2225-7HM42-0AA0	3VA2225-8HM42-0AA0
250	3VA2325-6HM42-0AA0	3VA2325-7HM42-0AA0	3VA2325-8HM42-0AA0
400	3VA2340-6HM42-0AA0	3VA2340-7HM42-0AA0	3VA2340-8HM42-0AA0
400	3VA2440-6HM42-0AA0	3VA2440-7HM42-0AA0	3VA2440-8HM42-0AA0
630	3VA2463-6HM42-0AA0	3VA2463-7HM42-0AA0	3VA2463-8HM42-0AA0
<b>NEW</b> 630 <sup>1)</sup>	3VA2563-6HM42-0AA0	3VA2563-7HM42-0AA0	--
800	3VA2580-6HM42-0AA0	3VA2580-7HM42-0AA0	--
1000	3VA2510-6HM42-0AA0	3VA2510-7HM42-0AA0	--

<sup>1)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2

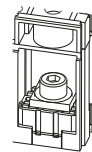
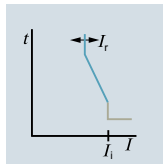


Connection technology	Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	Operating current of the instantaneous short-circuit protection "I" $I_i$	SD	$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Basic price per PU
		A	A	A	d			

4-pole, fixed-mounted, 3VA21 to 3VA25, up to 1000 A  
Electronic trip unit



1201\_19627



#### Line protection, ETU340 ELISA

With **easily** adjustable characteristic (characteristic form of a fuse)  
with neutral protection against overload and short circuit 0%, 50% or 100% (50% only from  $I_n \geq 100$  A)

##### Connection with box terminal

3VA21	25	10 ... 25	375	3VA2125-5HK46-0AA0
	40	16 ... 40	600	3VA2140-5HK46-0AA0
	63	25 ... 63	945	3VA2163-5HK46-0AA0
	100	40 ... 100	1500	3VA2110-5HK46-0AA0

##### Connection with nut keeper kit

3VA21	25	10 ... 25	375	3VA2125-5HK42-0AA0
	40	16 ... 40	600	3VA2140-5HK42-0AA0
	63	25 ... 63	945	3VA2163-5HK42-0AA0
	100	40 ... 100	1500	3VA2110-5HK42-0AA0
3VA22	160	63 ... 160	2400	3VA2216-5HK42-0AA0
3VA23	250	100 ... 250	3750	3VA2325-5HK42-0AA0
3VA24	400	160 ... 400	6000 <sup>1)</sup>	3VA2440-5HK42-0AA0
	500	200 ... 500	7000	3VA2450-5HK42-0AA0
	630	250 ... 630	5670	3VA2463-5HK42-0AA0
3VA25 <b>NEW</b>	630 <sup>2)</sup>	250 ... 630	7560	3VA2563-5HK42-0AA0
	800	320 ... 800	8000	3VA2580-5HK42-0AA0
	1000	400 ... 1000	10000	3VA2510-5HK42-0AA0

<sup>1)</sup> At breaking capacity L 4400 A

<sup>2)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>		SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		SD	$I_{cu}$ up to 150 kA at 415 V, extremely high switching capacity L <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">L</span>	
		See "Overview", p. 2/6 and 2/7			See "Overview", p. 2/6 and 2/7			See "Overview", p. 2/6 and 2/7	
		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d			d		

2

**Line protection, ETU340 ELISA**

With **easily** adjustable characteristic (characteristic form of a **fuse**)  
with neutral protection against overload and short circuit 0%, 50% or 100% (50% only from  $I_n \geq 100$  A)

**Connection with box terminal**

25	3VA2125-6HK46-0AA0	3VA2125-7HK46-0AA0	3VA2125-8HK46-0AA0
40	3VA2140-6HK46-0AA0	3VA2140-7HK46-0AA0	3VA2140-8HK46-0AA0
63	3VA2163-6HK46-0AA0	3VA2163-7HK46-0AA0	3VA2163-8HK46-0AA0
100	3VA2110-6HK46-0AA0	3VA2110-7HK46-0AA0	3VA2110-8HK46-0AA0

**Connection with nut keeper kit**

25	3VA2125-6HK42-0AA0	3VA2125-7HK42-0AA0	3VA2125-8HK42-0AA0
40	3VA2140-6HK42-0AA0	3VA2140-7HK42-0AA0	3VA2140-8HK42-0AA0
63	3VA2163-6HK42-0AA0	3VA2163-7HK42-0AA0	3VA2163-8HK42-0AA0
100	3VA2110-6HK42-0AA0	3VA2110-7HK42-0AA0	3VA2110-8HK42-0AA0
160	3VA2216-6HK42-0AA0	3VA2216-7HK42-0AA0	3VA2216-8HK42-0AA0
250	3VA2325-6HK42-0AA0	3VA2325-7HK42-0AA0	3VA2325-8HK42-0AA0
400	3VA2440-6HK42-0AA0	3VA2440-7HK42-0AA0	3VA2440-8HK42-0AA0
500	3VA2450-6HK42-0AA0	3VA2450-7HK42-0AA0	3VA2450-8HK42-0AA0
630	3VA2463-6HK42-0AA0	3VA2463-7HK42-0AA0	3VA2463-8HK42-0AA0
<b>NEW</b> 630 <sup>1)</sup>	3VA2563-6HK42-0AA0	3VA2563-7HK42-0AA0	--
800	3VA2580-6HK42-0AA0	3VA2580-7HK42-0AA0	--
1000	3VA2510-6HK42-0AA0	3VA2510-7HK42-0AA0	--

<sup>1)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB



Connection technology

Type

Rated current  $I_n$

Current setting of the inverse-time delayed overload protection "L"  $I_r$

S function (short-time delayed short-circuit protection "S")  $I_{sd}$

Operating current of the instantaneous short-circuit protection "I"  $I_i$

SD

$I_{cu}$  up to 55 kA at 415 V, medium breaking capacity M   
 See "Overview", p. 2/6 and 2/7

(M)

Article No.   
 [www.siemens.com/product?Article No.](http://www.siemens.com/product?Article No.)

Basic price per PU

A

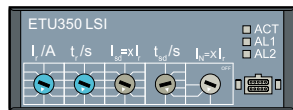
A

A

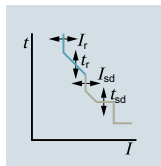
A

d

### 4-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A Electronic trip unit



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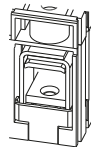


#### Line and generator protection, ETU350 LSI

With adjustable overload protection  $I_n$ , adjustable delayed short-circuit protection  $I_{sd}$  and fixed instantaneous short-circuit protection  $I_i$ , with neutral protection against overload and short circuit 0%, 50% or 100% (50% only from  $I_n \geq 100$  A)

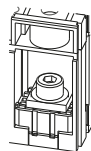
$I_r \times \dots$

#### Connection with box terminal



Rated current $I_n$	Current setting $I_r$	Operating current $I_i$	SD	Article No.
3VA20	25	10 ... 25	1.5 ... 10	3VA2025-5HN46-0AA0
	40	16 ... 40	1.5 ... 10	3VA2040-5HN46-0AA0
	63	25 ... 63	1.5 ... 10	3VA2063-5HN46-0AA0
	100	40 ... 100	1.5 ... 10	3VA2010-5HN46-0AA0
3VA21	25	10 ... 25	1.5 ... 10	3VA2125-5HN46-0AA0
	40	16 ... 40	1.5 ... 10	3VA2140-5HN46-0AA0
	63	25 ... 63	1.5 ... 10	3VA2163-5HN46-0AA0
	100	40 ... 100	1.5 ... 10	3VA2110-5HN46-0AA0
	160	63 ... 160	1.5 ... 10	3VA2116-5HN46-0AA0

#### Connection with nut keeper kit



Rated current $I_n$	Current setting $I_r$	Operating current $I_i$	SD	Article No.
3VA20	25	10 ... 25	1.5 ... 10	3VA2025-5HN42-0AA0
	40	16 ... 40	1.5 ... 10	3VA2040-5HN42-0AA0
	63	25 ... 63	1.5 ... 10	3VA2063-5HN42-0AA0
	100	40 ... 100	1.5 ... 10	3VA2010-5HN42-0AA0
3VA21	25	10 ... 25	1.5 ... 10	3VA2125-5HN42-0AA0
	40	16 ... 40	1.5 ... 10	3VA2140-5HN42-0AA0
	63	25 ... 63	1.5 ... 10	3VA2163-5HN42-0AA0
	100	40 ... 100	1.5 ... 10	3VA2110-5HN42-0AA0
	160	63 ... 160	1.5 ... 10	3VA2116-5HN42-0AA0
3VA22	160	63 ... 160	1.5 ... 10	3VA2216-5HN42-0AA0
	250	100 ... 250	1.5 ... 10	3VA2225-5HN42-0AA0
3VA23	250	100 ... 250	1.5 ... 10	3VA2325-5HN42-0AA0
	400	160 ... 400	1.5 ... 10	3VA2340-5HN42-0AA0
3VA24	400	160 ... 400	1.5 ... 10	3VA2440-5HN42-0AA0
	630	250 ... 630	1.5 ... 9	3VA2463-5HN42-0AA0
3VA25 <b>NEW</b>	630 <sup>2)</sup>	250 ... 630	1.5 ... 10	3VA2563-5HN42-0AA0
	800	320 ... 800	1.5 ... 10	3VA2580-5HN42-0AA0
	1000	400 ... 1000	1.5 ... 10	3VA2510-5HN42-0AA0

<sup>1)</sup> At breaking capacity L 4400 A

<sup>2)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>		SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		SD	$I_{cu}$ up to 150 kA at 415 V, extremely high switching capacity L <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">L</span>	
		See "Overview", p. 2/6 and 2/7			See "Overview", p. 2/6 and 2/7			See "Overview", p. 2/6 and 2/7	
		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Basic price per PU
A	d			d			d		

2

**Line and generator protection, ETU350 LSI**

With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$  and fixed instantaneous short-circuit protection  $I_i$ , with neutral protection against overload and short circuit 0%, 50% or 100% (50% only from  $I_n \geq 100$  A)

**Connection with box terminal**

25	3VA2025-6HN46-0AA0	3VA2025-7HN46-0AA0	3VA2025-8HN46-0AA0
40	3VA2040-6HN46-0AA0	3VA2040-7HN46-0AA0	3VA2040-8HN46-0AA0
63	3VA2063-6HN46-0AA0	3VA2063-7HN46-0AA0	3VA2063-8HN46-0AA0
100	3VA2010-6HN46-0AA0	3VA2010-7HN46-0AA0	3VA2010-8HN46-0AA0
25	3VA2125-6HN46-0AA0	3VA2125-7HN46-0AA0	3VA2125-8HN46-0AA0
40	3VA2140-6HN46-0AA0	3VA2140-7HN46-0AA0	3VA2140-8HN46-0AA0
63	3VA2163-6HN46-0AA0	3VA2163-7HN46-0AA0	3VA2163-8HN46-0AA0
100	3VA2110-6HN46-0AA0	3VA2110-7HN46-0AA0	3VA2110-8HN46-0AA0
160	3VA2116-6HN46-0AA0	3VA2116-7HN46-0AA0	3VA2116-8HN46-0AA0

**Connection with nut keeper kit**

25	3VA2025-6HN42-0AA0	3VA2025-7HN42-0AA0	3VA2025-8HN42-0AA0
40	3VA2040-6HN42-0AA0	3VA2040-7HN42-0AA0	3VA2040-8HN42-0AA0
63	3VA2063-6HN42-0AA0	3VA2063-7HN42-0AA0	3VA2063-8HN42-0AA0
100	3VA2010-6HN42-0AA0	3VA2010-7HN42-0AA0	3VA2010-8HN42-0AA0
25	3VA2125-6HN42-0AA0	3VA2125-7HN42-0AA0	3VA2125-8HN42-0AA0
40	3VA2140-6HN42-0AA0	3VA2140-7HN42-0AA0	3VA2140-8HN42-0AA0
63	3VA2163-6HN42-0AA0	3VA2163-7HN42-0AA0	3VA2163-8HN42-0AA0
100	3VA2110-6HN42-0AA0	3VA2110-7HN42-0AA0	3VA2110-8HN42-0AA0
160	3VA2116-6HN42-0AA0	3VA2116-7HN42-0AA0	3VA2116-8HN42-0AA0
160	3VA2216-6HN42-0AA0	3VA2216-7HN42-0AA0	3VA2216-8HN42-0AA0
250	3VA2225-6HN42-0AA0	3VA2225-7HN42-0AA0	3VA2225-8HN42-0AA0
250	3VA2325-6HN42-0AA0	3VA2325-7HN42-0AA0	3VA2325-8HN42-0AA0
400	3VA2340-6HN42-0AA0	3VA2340-7HN42-0AA0	3VA2340-8HN42-0AA0
400	3VA2440-6HN42-0AA0	3VA2440-7HN42-0AA0	3VA2440-8HN42-0AA0
630	3VA2463-6HN42-0AA0	3VA2463-7HN42-0AA0	3VA2463-8HN42-0AA0
<b>NEW</b> 630 <sup>1)</sup>	3VA2563-6HN42-0AA0	3VA2563-7HN42-0AA0	--
800	3VA2580-6HN42-0AA0	3VA2580-7HN42-0AA0	--
1000	3VA2510-6HN42-0AA0	3VA2510-7HN42-0AA0	--

<sup>1)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

### 3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

#### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2

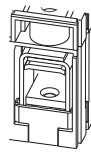
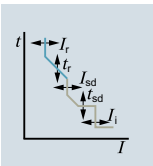


Connection technology	Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	S function (short-time delayed short-circuit protection "S") $I_{sd}$	Operating current of the instantaneous short-circuit protection "I" $I_i$	SD	$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M
		A	A	A	A	d	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a> Basic price per PU

#### 4-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A Electronic trip unit



I201\_18480

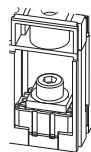


#### Line and generator protection, with display, ETU550 LSI

With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$  and adjustable instantaneous short-circuit protection  $I_i$ , with neutral protection against overload and short circuit from 20%/40% to 100%/160%

##### Connection with box terminal

Model	Rated current $I_n$	Overload protection $I_r$	Delayed short-circuit protection $I_{sd}$	Instantaneous short-circuit protection $I_i$	Product Code
3VA20	25	10 ... 25	15 ... 250	38 ... 300	3VA2025-5JP46-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2040-5JP46-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2063-5JP46-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2010-5JP46-0AA0
3VA21	25	10 ... 25	15 ... 250	38 ... 300	3VA2125-5JP46-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2140-5JP46-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2163-5JP46-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2110-5JP46-0AA0
	160	63 ... 160	96 ... 1600	240 ... 1600	3VA2116-5JP46-0AA0



##### Connection with nut keeper kit

Model	Rated current $I_n$	Overload protection $I_r$	Delayed short-circuit protection $I_{sd}$	Instantaneous short-circuit protection $I_i$	Product Code
3VA20	25	10 ... 25	15 ... 250	38 ... 300	3VA2025-5JP42-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2040-5JP42-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2063-5JP42-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2010-5JP42-0AA0
3VA21	25	10 ... 25	15 ... 250	38 ... 300	3VA2125-5JP42-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2140-5JP42-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2163-5JP42-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2110-5JP42-0AA0
	160	63 ... 160	96 ... 1600	240 ... 1600	3VA2116-5JP42-0AA0
3VA22	160	63 ... 160	96 ... 1600	240 ... 1920	3VA2216-5JP42-0AA0
	250	100 ... 250	150 ... 2500	375 ... 2500	3VA2225-5JP42-0AA0
3VA23	250	100 ... 250	150 ... 2500	375 ... 3000	3VA2325-5JP42-0AA0
	400	160 ... 400	240 ... 4000	600 ... 4000	3VA2340-5JP42-0AA0
3VA24	400	160 ... 400	240 ... 4000	600 ... 6000 <sup>1)</sup>	3VA2440-5JP42-0AA0
	500	200 ... 500	300 ... 5000	750 ... 7000	3VA2450-5JP42-0AA0
	630	250 ... 630	378 ... 5670	945 ... 5670	3VA2463-5JP42-0AA0
3VA25 <b>NEW</b>	630 <sup>2)</sup>	250 ... 630	378 ... 6300	945 ... 7560	3VA2563-5JP42-0AA0
	800	320 ... 800	480 ... 8000	1200 ... 8000	3VA2580-5JP42-0AA0
	1000	400 ... 1000	600 ... 10000	1500 ... 10000	3VA2510-5JP42-0AA0

<sup>1)</sup> At breaking capacity L 4400 A

<sup>2)</sup> Start of delivery scheduled for 1st quarter 2018



## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>		SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		SD	$I_{cu}$ up to 150 kA at 415 V, extremely high switching capacity L <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">L</span>	
		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d			d		

2

**Line and generator protection, with display, ETU550 LSI**

With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$   
and adjustable instantaneous short-circuit protection  $I_i$ ,  
with neutral protection against overload and short circuit from 20%/40% to 100%/160%

**Connection with box terminal**

25	3VA2025-6JP46-0AA0	3VA2025-7JP46-0AA0	3VA2025-8JP46-0AA0
40	3VA2040-6JP46-0AA0	3VA2040-7JP46-0AA0	3VA2040-8JP46-0AA0
63	3VA2063-6JP46-0AA0	3VA2063-7JP46-0AA0	3VA2063-8JP46-0AA0
100	3VA2010-6JP46-0AA0	3VA2010-7JP46-0AA0	3VA2010-8JP46-0AA0
25	3VA2125-6JP46-0AA0	3VA2125-7JP46-0AA0	3VA2125-8JP46-0AA0
40	3VA2140-6JP46-0AA0	3VA2140-7JP46-0AA0	3VA2140-8JP46-0AA0
63	3VA2163-6JP46-0AA0	3VA2163-7JP46-0AA0	3VA2163-8JP46-0AA0
100	3VA2110-6JP46-0AA0	3VA2110-7JP46-0AA0	3VA2110-8JP46-0AA0
160	3VA2116-6JP46-0AA0	3VA2116-7JP46-0AA0	3VA2116-8JP46-0AA0

**Connection with nut keeper kit**

25	3VA2025-6JP42-0AA0	3VA2025-7JP42-0AA0	3VA2025-8JP42-0AA0
40	3VA2040-6JP42-0AA0	3VA2040-7JP42-0AA0	3VA2040-8JP42-0AA0
63	3VA2063-6JP42-0AA0	3VA2063-7JP42-0AA0	3VA2063-8JP42-0AA0
100	3VA2010-6JP42-0AA0	3VA2010-7JP42-0AA0	3VA2010-8JP42-0AA0
25	3VA2125-6JP42-0AA0	3VA2125-7JP42-0AA0	3VA2125-8JP42-0AA0
40	3VA2140-6JP42-0AA0	3VA2140-7JP42-0AA0	3VA2140-8JP42-0AA0
63	3VA2163-6JP42-0AA0	3VA2163-7JP42-0AA0	3VA2163-8JP42-0AA0
100	3VA2110-6JP42-0AA0	3VA2110-7JP42-0AA0	3VA2110-8JP42-0AA0
160	3VA2116-6JP42-0AA0	3VA2116-7JP42-0AA0	3VA2116-8JP42-0AA0
160	3VA2216-6JP42-0AA0	3VA2216-7JP42-0AA0	3VA2216-8JP42-0AA0
250	3VA2225-6JP42-0AA0	3VA2225-7JP42-0AA0	3VA2225-8JP42-0AA0
250	3VA2325-6JP42-0AA0	3VA2325-7JP42-0AA0	3VA2325-8JP42-0AA0
400	3VA2340-6JP42-0AA0	3VA2340-7JP42-0AA0	3VA2340-8JP42-0AA0
400	3VA2440-6JP42-0AA0	3VA2440-7JP42-0AA0	3VA2440-8JP42-0AA0
500	3VA2450-6JP42-0AA0	3VA2450-7JP42-0AA0	--
630	3VA2463-6JP42-0AA0	3VA2463-7JP42-0AA0	3VA2463-8JP42-0AA0
<b>NEW</b> 630 <sup>1)</sup>	3VA2563-6JP42-0AA0	3VA2563-7JP42-0AA0	--
800	3VA2580-6JP42-0AA0	3VA2580-7JP42-0AA0	--
1000	3VA2510-6JP42-0AA0	3VA2510-7JP42-0AA0	--

<sup>1)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

### 3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

#### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2

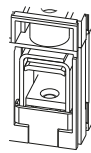
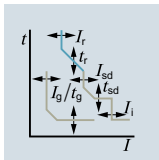


Connection technology	Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	S function (short-time delayed short-circuit protection "S") $I_{sd}$	Operating current of the instantaneous short-circuit protection "I" $I_i$	SD	$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a>	Basic price per PU
		A	A	A	A	d			

#### 4-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A Electronic trip unit



I201\_18481



#### Line and generator protection, with display, ETU560 LSIG

With adjustable overload protection  $I_n$ , adjustable delayed short-circuit protection  $I_{sd}$  and adjustable instantaneous short-circuit protection  $I_i$ , with neutral protection against overload and short circuit from 20%/40% to 100%/160% and adjustable ground-fault protection  $I_g$

#### Connection with box terminal

3VA20	25	10 ... 25	15 ... 250	38 ... 300	3VA2025-5JQ46-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2040-5JQ46-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2063-5JQ46-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2010-5JQ46-0AA0
3VA21	25	10 ... 25	15 ... 250	38 ... 300	3VA2125-5JQ46-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2140-5JQ46-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2163-5JQ46-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2110-5JQ46-0AA0
160	63 ... 160	96 ... 1600	240 ... 1600	3VA2116-5JQ46-0AA0	

#### Connection with nut keeper kit

3VA20	25	10 ... 25	15 ... 250	38 ... 300	3VA2025-5JQ42-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2040-5JQ42-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2063-5JQ42-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2010-5JQ42-0AA0
3VA21	25	10 ... 25	15 ... 250	38 ... 300	3VA2125-5JQ42-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2140-5JQ42-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2163-5JQ42-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2110-5JQ42-0AA0
160	63 ... 160	96 ... 1600	240 ... 1600	3VA2116-5JQ42-0AA0	
3VA22	160	63 ... 160	96 ... 1600	240 ... 1920	3VA2216-5JQ42-0AA0
	250	100 ... 250	150 ... 2500	375 ... 2500	3VA2225-5JQ42-0AA0
3VA23	250	100 ... 250	150 ... 2500	375 ... 3000	3VA2325-5JQ42-0AA0
	400	160 ... 400	240 ... 4000	600 ... 4000	3VA2340-5JQ42-0AA0
3VA24	400	160 ... 400	240 ... 4000	600 ... 6000 <sup>1)</sup>	3VA2440-5JQ42-0AA0
	500	200 ... 500	300 ... 5000	750 ... 7000	3VA2450-5JQ42-0AA0
	630	250 ... 630	378 ... 5670	945 ... 5670	3VA2463-5JQ42-0AA0

<sup>1)</sup> At breaking capacity L 4400 A

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>		SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		SD	$I_{cu}$ up to 150 kA at 415 V, extremely high switching capacity L <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">L</span>	
		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d			d		

2

**Line and generator protection, with display, ETU560 LSIG**

With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$  and adjustable instantaneous short-circuit protection  $I_i$ , with neutral protection against overload and short circuit from 20%/40% to 100%/160% and adjustable ground-fault protection  $I_g$

**Connection with box terminal**

25	3VA2025-6JQ46-0AA0	3VA2025-7JQ46-0AA0	3VA2025-8JQ46-0AA0
40	3VA2040-6JQ46-0AA0	3VA2040-7JQ46-0AA0	3VA2040-8JQ46-0AA0
63	3VA2063-6JQ46-0AA0	3VA2063-7JQ46-0AA0	3VA2063-8JQ46-0AA0
100	3VA2010-6JQ46-0AA0	3VA2010-7JQ46-0AA0	3VA2010-8JQ46-0AA0
25	3VA2125-6JQ46-0AA0	3VA2125-7JQ46-0AA0	3VA2125-8JQ46-0AA0
40	3VA2140-6JQ46-0AA0	3VA2140-7JQ46-0AA0	3VA2140-8JQ46-0AA0
63	3VA2163-6JQ46-0AA0	3VA2163-7JQ46-0AA0	3VA2163-8JQ46-0AA0
100	3VA2110-6JQ46-0AA0	3VA2110-7JQ46-0AA0	3VA2110-8JQ46-0AA0
160	3VA2116-6JQ46-0AA0	3VA2116-7JQ46-0AA0	3VA2116-8JQ46-0AA0

**Connection with nut keeper kit**

25	3VA2025-6JQ42-0AA0	3VA2025-7JQ42-0AA0	3VA2025-8JQ42-0AA0
40	3VA2040-6JQ42-0AA0	3VA2040-7JQ42-0AA0	3VA2040-8JQ42-0AA0
63	3VA2063-6JQ42-0AA0	3VA2063-7JQ42-0AA0	3VA2063-8JQ42-0AA0
100	3VA2010-6JQ42-0AA0	3VA2010-7JQ42-0AA0	3VA2010-8JQ42-0AA0
25	3VA2125-6JQ42-0AA0	3VA2125-7JQ42-0AA0	3VA2125-8JQ42-0AA0
40	3VA2140-6JQ42-0AA0	3VA2140-7JQ42-0AA0	3VA2140-8JQ42-0AA0
63	3VA2163-6JQ42-0AA0	3VA2163-7JQ42-0AA0	3VA2163-8JQ42-0AA0
100	3VA2110-6JQ42-0AA0	3VA2110-7JQ42-0AA0	3VA2110-8JQ42-0AA0
160	3VA2116-6JQ42-0AA0	3VA2116-7JQ42-0AA0	3VA2116-8JQ42-0AA0
160	3VA2216-6JQ42-0AA0	3VA2216-7JQ42-0AA0	3VA2216-8JQ42-0AA0
250	3VA2225-6JQ42-0AA0	3VA2225-7JQ42-0AA0	3VA2225-8JQ42-0AA0
250	3VA2325-6JQ42-0AA0	3VA2325-7JQ42-0AA0	3VA2325-8JQ42-0AA0
400	3VA2340-6JQ42-0AA0	3VA2340-7JQ42-0AA0	3VA2340-8JQ42-0AA0
400	3VA2440-6JQ42-0AA0	3VA2440-7JQ42-0AA0	3VA2440-8JQ42-0AA0
500	3VA2450-6JQ42-0AA0	3VA2450-7JQ42-0AA0	--
630	3VA2463-6JQ42-0AA0	3VA2463-7JQ42-0AA0	3VA2463-8JQ42-0AA0

## Molded Case Circuit Breakers

### 3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

#### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

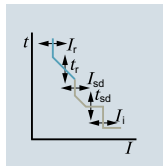


Connection technology	Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	S function (short-time delayed short-circuit protection "S") $I_{sd}$	Operating current of the instantaneous short-circuit protection "I" $I_i$	SD	$I_{cu}$ up to 55 kA at 415 V, medium breaking capacity M See "Overview", p. 2/6 and 2/7
		A	A	A	A	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a> Basic price per PU

#### 4-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A Electronic trip unit



i201\_18482

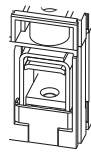


#### Line and generator protection, with display, with metering function, ETU850 LSI

With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$  and adjustable instantaneous short-circuit protection  $I_i$ , with neutral protection against overload and short circuit from 20%/40% to 100%/160%

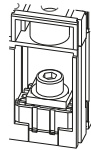
##### Connection with box terminal

3VA20	25	10 ... 25	15 ... 250	38 ... 300	3VA2025-5KP46-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2040-5KP46-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2063-5KP46-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2010-5KP46-0AA0
3VA21	25	10 ... 25	15 ... 250	38 ... 300	3VA2125-5KP46-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2140-5KP46-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2163-5KP46-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2110-5KP46-0AA0
	160	63 ... 160	96 ... 1600	240 ... 1600	3VA2116-5KP46-0AA0



##### Connection with nut keeper kit

3VA20	25	10 ... 25	15 ... 250	38 ... 300	3VA2025-5KP42-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2040-5KP42-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2063-5KP42-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2010-5KP42-0AA0
3VA21	25	10 ... 25	15 ... 250	38 ... 300	3VA2125-5KP42-0AA0
	40	16 ... 40	24 ... 400	60 ... 480	3VA2140-5KP42-0AA0
	63	25 ... 63	38 ... 630	95 ... 756	3VA2163-5KP42-0AA0
	100	40 ... 100	60 ... 1000	150 ... 1200	3VA2110-5KP42-0AA0
	160	63 ... 160	96 ... 1600	240 ... 1600	3VA2116-5KP42-0AA0
3VA22	160	63 ... 160	96 ... 1600	240 ... 1920	3VA2216-5KP42-0AA0
	250	100 ... 250	150 ... 2500	375 ... 2500	3VA2225-5KP42-0AA0
3VA23	250	100 ... 250	150 ... 2500	375 ... 3000	3VA2325-5KP42-0AA0
	400	160 ... 400	240 ... 4000	600 ... 4000	3VA2340-5KP42-0AA0
3VA24	400	160 ... 400	240 ... 4000	600 ... 6000 <sup>1)</sup>	3VA2440-5KP42-0AA0
	500	200 ... 500	300 ... 5000	750 ... 7000	3VA2450-5KP42-0AA0
	630	250 ... 630	378 ... 5670	945 ... 5670	3VA2463-5KP42-0AA0



<sup>1)</sup> At breaking capacity L 4400 A

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>	Basic price per PU	SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>	Basic price per PU	SD	$I_{cu}$ up to 150 kA at 415 V, extremely high switching capacity L <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">L</span>	Basic price per PU
A	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>		d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>		d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	

**Line and generator protection, with display, with metering function, ETU850 LSI**

With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$   
and adjustable instantaneous short-circuit protection  $I_i$ ,  
with neutral protection against overload and short circuit from 20%/40% to 100%/160%

**Connection with box terminal**

25	3VA2025-6KP46-0AA0	3VA2025-7KP46-0AA0	3VA2025-8KP46-0AA0
40	3VA2040-6KP46-0AA0	3VA2040-7KP46-0AA0	3VA2040-8KP46-0AA0
63	3VA2063-6KP46-0AA0	3VA2063-7KP46-0AA0	3VA2063-8KP46-0AA0
100	3VA2010-6KP46-0AA0	3VA2010-7KP46-0AA0	3VA2010-8KP46-0AA0
25	3VA2125-6KP46-0AA0	3VA2125-7KP46-0AA0	3VA2125-8KP46-0AA0
40	3VA2140-6KP46-0AA0	3VA2140-7KP46-0AA0	3VA2140-8KP46-0AA0
63	3VA2163-6KP46-0AA0	3VA2163-7KP46-0AA0	3VA2163-8KP46-0AA0
100	3VA2110-6KP46-0AA0	3VA2110-7KP46-0AA0	3VA2110-8KP46-0AA0
160	3VA2116-6KP46-0AA0	3VA2116-7KP46-0AA0	3VA2116-8KP46-0AA0

**Connection with nut keeper kit**

25	3VA2025-6KP42-0AA0	3VA2025-7KP42-0AA0	3VA2025-8KP42-0AA0
40	3VA2040-6KP42-0AA0	3VA2040-7KP42-0AA0	3VA2040-8KP42-0AA0
63	3VA2063-6KP42-0AA0	3VA2063-7KP42-0AA0	3VA2063-8KP42-0AA0
100	3VA2010-6KP42-0AA0	3VA2010-7KP42-0AA0	3VA2010-8KP42-0AA0
25	3VA2125-6KP42-0AA0	3VA2125-7KP42-0AA0	3VA2125-8KP42-0AA0
40	3VA2140-6KP42-0AA0	3VA2140-7KP42-0AA0	3VA2140-8KP42-0AA0
63	3VA2163-6KP42-0AA0	3VA2163-7KP42-0AA0	3VA2163-8KP42-0AA0
100	3VA2110-6KP42-0AA0	3VA2110-7KP42-0AA0	3VA2110-8KP42-0AA0
160	3VA2116-6KP42-0AA0	3VA2116-7KP42-0AA0	3VA2116-8KP42-0AA0
160	3VA2216-6KP42-0AA0	3VA2216-7KP42-0AA0	3VA2216-8KP42-0AA0
250	3VA2225-6KP42-0AA0	3VA2225-7KP42-0AA0	3VA2225-8KP42-0AA0
250	3VA2325-6KP42-0AA0	3VA2325-7KP42-0AA0	3VA2325-8KP42-0AA0
400	3VA2340-6KP42-0AA0	3VA2340-7KP42-0AA0	3VA2340-8KP42-0AA0
400	3VA2440-6KP42-0AA0	3VA2440-7KP42-0AA0	3VA2440-8KP42-0AA0
500	3VA2450-6KP42-0AA0	3VA2450-7KP42-0AA0	---
630	3VA2463-6KP42-0AA0	3VA2463-7KP42-0AA0	3VA2463-8KP42-0AA0

## Molded Case Circuit Breakers

### 3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

#### Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

2



Connection technology

Type

Rated current  $I_n$ Current setting of the inverse-time delayed overload protection "L"  $I_r$ S function (short-time delayed short-circuit protection "S")  $I_{sd}$ Operating current of the instantaneous short-circuit protection "I"  $I_i$ 

SD

$I_{cu}$  up to 55 kA at 415 V, medium breaking capacity M  
See "Overview", p. 2/6 and 2/7

Article No.  
[www.siemens.com/product?Article No.](http://www.siemens.com/product?Article No.)

Basic price per PU

A

A

A

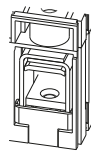
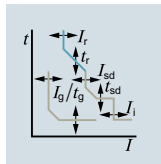
A

d

#### 4-pole, fixed-mounted, 3VA20 to 3VA25, up to 1000 A Electronic trip unit



I201\_18483

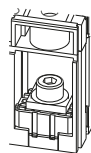


#### Line and generator protection, with display, with metering function, ETU860 LSIG

With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$  and adjustable instantaneous short-circuit protection  $I_i$ , with neutral protection against overload and short circuit from 20%/40% to 100%/160% and adjustable ground-fault protection  $I_g$

##### Connection with box terminal

3VA20	25	10 ... 25	15 ... 250	38 ... 300	<b>3VA2025-5KQ46-0AA0</b>
	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA2040-5KQ46-0AA0</b>
	63	25 ... 63	38 ... 630	95 ... 756	<b>3VA2063-5KQ46-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA2010-5KQ46-0AA0</b>
3VA21	25	10 ... 25	15 ... 250	38 ... 300	<b>3VA2125-5KQ46-0AA0</b>
	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA2140-5KQ46-0AA0</b>
	63	25 ... 63	38 ... 630	95 ... 756	<b>3VA2163-5KQ46-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA2110-5KQ46-0AA0</b>
3VA21	160	63 ... 160	96 ... 1600	240 ... 1600	<b>3VA2116-5KQ46-0AA0</b>



##### Connection with nut keeper kit

3VA20	25	10 ... 25	15 ... 250	38 ... 300	<b>3VA2025-5KQ42-0AA0</b>	
	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA2040-5KQ42-0AA0</b>	
	63	25 ... 63	38 ... 630	95 ... 756	<b>3VA2063-5KQ42-0AA0</b>	
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA2010-5KQ42-0AA0</b>	
3VA21	25	10 ... 25	15 ... 250	38 ... 300	<b>3VA2125-5KQ42-0AA0</b>	
	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA2140-5KQ42-0AA0</b>	
	63	25 ... 63	38 ... 630	95 ... 756	<b>3VA2163-5KQ42-0AA0</b>	
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA2110-5KQ42-0AA0</b>	
3VA21	160	63 ... 160	96 ... 1600	240 ... 1600	<b>3VA2116-5KQ42-0AA0</b>	
	3VA22	160	63 ... 160	96 ... 1600	240 ... 1920	<b>3VA2216-5KQ42-0AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA2225-5KQ42-0AA0</b>	
	3VA23	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA2325-5KQ42-0AA0</b>
400		160 ... 400	240 ... 4000	600 ... 4000	<b>3VA2340-5KQ42-0AA0</b>	
3VA24	400	160 ... 400	240 ... 4000	600 ... 6000 <sup>1)</sup>	<b>3VA2440-5KQ42-0AA0</b>	
	500	200 ... 500	300 ... 5000	750 ... 7000	<b>3VA2450-5KQ42-0AA0</b>	
	630	250 ... 630	378 ... 5670	945 ... 5670	<b>3VA2463-5KQ42-0AA0</b>	
3VA25	630 <sup>2)</sup>	250 ... 630	378 ... 6300	945 ... 7560	<b>3VA2563-5KQ42-0AA0</b>	
	800	320 ... 800	480 ... 8000	1200 ... 8000	<b>3VA2580-5KQ42-0AA0</b>	
	1000	400 ... 1000	600 ... 10000	1500 ... 10000	<b>3VA2510-5KQ42-0AA0</b>	

<sup>1)</sup> At breaking capacity L 4400 A

<sup>2)</sup> Start of delivery scheduled for 1st quarter 2018

## Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

Line protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">H</span>		SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">C</span>		SD	$I_{cu}$ up to 150 kA at 415 V, extremely high switching capacity L <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">L</span>	
		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d			d		

2

**Line and generator protection, with display, with metering function, ETU860 LSIG**

With adjustable overload protection  $I_f$ , adjustable delayed short-circuit protection  $I_{sd}$  and adjustable instantaneous short-circuit protection  $I_i$ , with neutral protection against overload and short circuit from 20%/40% to 100%/160% and adjustable ground-fault protection  $I_g$

**Connection with box terminal**

25	3VA2025-6KQ46-0AA0	3VA2025-7KQ46-0AA0	3VA2025-8KQ46-0AA0
40	3VA2040-6KQ46-0AA0	3VA2040-7KQ46-0AA0	3VA2040-8KQ46-0AA0
63	3VA2063-6KQ46-0AA0	3VA2063-7KQ46-0AA0	3VA2063-8KQ46-0AA0
100	3VA2010-6KQ46-0AA0	3VA2010-7KQ46-0AA0	3VA2010-8KQ46-0AA0
25	3VA2125-6KQ46-0AA0	3VA2125-7KQ46-0AA0	3VA2125-8KQ46-0AA0
40	3VA2140-6KQ46-0AA0	3VA2140-7KQ46-0AA0	3VA2140-8KQ46-0AA0
63	3VA2163-6KQ46-0AA0	3VA2163-7KQ46-0AA0	3VA2163-8KQ46-0AA0
100	3VA2110-6KQ46-0AA0	3VA2110-7KQ46-0AA0	3VA2110-8KQ46-0AA0
160	3VA2116-6KQ46-0AA0	3VA2116-7KQ46-0AA0	3VA2116-8KQ46-0AA0

**Connection with nut keeper kit**

25	3VA2025-6KQ42-0AA0	3VA2025-7KQ42-0AA0	3VA2025-8KQ42-0AA0
40	3VA2040-6KQ42-0AA0	3VA2040-7KQ42-0AA0	3VA2040-8KQ42-0AA0
63	3VA2063-6KQ42-0AA0	3VA2063-7KQ42-0AA0	3VA2063-8KQ42-0AA0
100	3VA2010-6KQ42-0AA0	3VA2010-7KQ42-0AA0	3VA2010-8KQ42-0AA0
25	3VA2125-6KQ42-0AA0	3VA2125-7KQ42-0AA0	3VA2125-8KQ42-0AA0
40	3VA2140-6KQ42-0AA0	3VA2140-7KQ42-0AA0	3VA2140-8KQ42-0AA0
63	3VA2163-6KQ42-0AA0	3VA2163-7KQ42-0AA0	3VA2163-8KQ42-0AA0
100	3VA2110-6KQ42-0AA0	3VA2110-7KQ42-0AA0	3VA2110-8KQ42-0AA0
160	3VA2116-6KQ42-0AA0	3VA2116-7KQ42-0AA0	3VA2116-8KQ42-0AA0
160	3VA2216-6KQ42-0AA0	3VA2216-7KQ42-0AA0	3VA2216-8KQ42-0AA0
250	3VA2225-6KQ42-0AA0	3VA2225-7KQ42-0AA0	3VA2225-8KQ42-0AA0
250	3VA2325-6KQ42-0AA0	3VA2325-7KQ42-0AA0	3VA2325-8KQ42-0AA0
400	3VA2340-6KQ42-0AA0	3VA2340-7KQ42-0AA0	3VA2340-8KQ42-0AA0
400	3VA2440-6KQ42-0AA0	3VA2440-7KQ42-0AA0	3VA2440-8KQ42-0AA0
500	3VA2450-6KQ42-0AA0	3VA2450-7KQ42-0AA0	--
630	3VA2463-6KQ42-0AA0	3VA2463-7KQ42-0AA0	3VA2463-8KQ42-0AA0
<b>NEW</b> 630 <sup>1)</sup>	3VA2563-6KQ42-0AA0	3VA2563-7KQ42-0AA0	--
800	3VA2580-6KQ42-0AA0	3VA2580-7KQ42-0AA0	--
1000	3VA2510-6KQ42-0AA0	3VA2510-7KQ42-0AA0	--

<sup>1)</sup> Start of delivery scheduled for 1st quarter 2018



# Molded Case Circuit Breakers

3VA2 Molded Case Circuit Breakers up to 1000 A, IEC

## Motor and starter protection

PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1 CCB

2

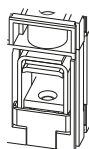
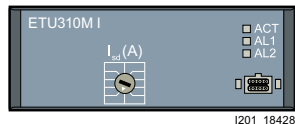


Connection technology	Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	S function (short-time delayed short-circuit protection "S") $I_{sd}$	Operating current of the instantaneous short-circuit protection "I" $I_i$	SD
		A	A	A	A	d

**$I_{cu}$  up to 55 kA at 415 V, medium breaking capacity M** M

Article No. [www.siemens.com/product?Article.No.](http://www.siemens.com/product?Article.No.) Basic price per PU

### 3-pole, fixed-mounted, 3VA20 to 3VA24, up to 630 A Electronic trip unit



#### Starter protection, ETU310M I

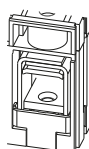
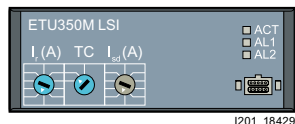
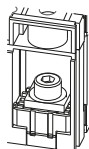
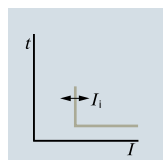
With adjustable short-circuit protection  $I_i$

##### Connection with box terminal

3VA21	25	40	63	100	--	--	75 ... 375	120 ... 600	189 ... 945	300 ... 1500

##### Connection with nut keeper kit

3VA21	25	40	63	100	--	--	75 ... 375	120 ... 600	189 ... 945	300 ... 1500
3VA22	160	200	--	--	--	--	480 ... 2400	600 ... 3000	--	--
3VA23	250	--	--	--	--	--	750 ... 3750	--	--	--
3VA24	400	500	--	--	--	--	1200 ... 6000	1500 ... 7500	--	--



#### Motor protection, ETU350M LSI

With adjustable overload protection  $I_r$  (delay adjustable via trip class  $T_C$  (10A, 10/10E, 20/20E), adjustable delayed short-circuit protection  $I_{sd}$ , and fixed instantaneous short-circuit protection  $I_i$

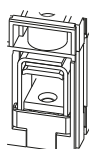
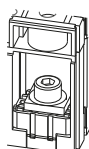
$I_r \times \dots$

##### Connection with box terminal

3VA21	25	40	63	100	10 ... 25	16 ... 40	25 ... 63	40 ... 100	3 ... 15	3 ... 15	3 ... 15	3 ... 15	375	600	945	1500

##### Connection with screw terminal

3VA21	25	40	63	100	10 ... 25	16 ... 40	25 ... 63	40 ... 100	3 ... 15	3 ... 15	3 ... 15	3 ... 15	375	600	945	1500
3VA22	160	200	--	--	63 ... 160	80 ... 200	--	--	3 ... 15	3 ... 15	3 ... 15	3 ... 15	2400	3000	--	--
3VA23	250	--	--	--	100 ... 250	--	--	--	3 ... 15	3 ... 15	3 ... 15	3 ... 15	3750	--	--	--
3VA24	400	500	--	--	160 ... 400	200 ... 500	--	--	3 ... 15	3 ... 15	3 ... 15	3 ... 15	6000	7500	--	--



#### Motor protection, with display, with metering function, ETU860M LSIG

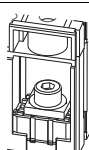
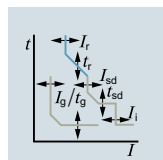
With adjustable overload protection  $I_r$  (delay adjustable via trip class  $T_C$  (10A, 10/10E, 20/20E, 30/30E) or directly via  $T_P$  in the range of 3 ... 30 s at 7.2 x I (depending on size)), adjustable delayed short-circuit protection  $I_{sd}$ , and adjustable instantaneous short-circuit protection  $I_i$ , and fixed ground-fault protection  $I_g$

##### Connection with box terminal

3VA21	25	40	63	100	10 ... 25	16 ... 40	25 ... 63	40 ... 100	38 ... 375	48 ... 600	95 ... 945	150 ... 1500	75 ... 375	120 ... 600	189 ... 945	300 ... 1500

##### Connection with screw terminal

3VA21	25	40	63	100	10 ... 25	16 ... 40	25 ... 63	40 ... 100	30 ... 375	48 ... 600	76 ... 945	120 ... 1500	75 ... 375	120 ... 600	189 ... 945	300 ... 1500
3VA22	160	200	--	--	63 ... 160	80 ... 200	--	--	192 ... 2400	240 ... 3000	240 ... 3000	240 ... 3000	480 ... 2400	600 ... 3000	--	--
3VA23	250	--	--	--	100 ... 250	--	--	--	300 ... 3750	300 ... 3750	300 ... 3750	300 ... 3750	750 ... 3750	--	--	--
3VA24	400	500	--	--	160 ... 400	200 ... 500	--	--	480 ... 6000	600 ... 7500	600 ... 7500	600 ... 7500	1200 ... 6000	1500 ... 7500	--	--



<b>3VA2125-5MN36-0AA0</b>
<b>3VA2140-5MN36-0AA0</b>
<b>3VA2163-5MN36-0AA0</b>
<b>3VA2110-5MN36-0AA0</b>
<b>3VA2125-5MN32-0AA0</b>
<b>3VA2140-5MN32-0AA0</b>
<b>3VA2163-5MN32-0AA0</b>
<b>3VA2110-5MN32-0AA0</b>
<b>3VA2216-5MN32-0AA0</b>
<b>3VA2220-5MN32-0AA0</b>
<b>3VA2325-5MN32-0AA0</b>
<b>3VA2440-5MN32-0AA0</b>
<b>3VA2450-5MN32-0AA0</b>
<b>3VA2125-5MQ36-0AA0</b>
<b>3VA2140-5MQ36-0AA0</b>
<b>3VA2163-5MQ36-0AA0</b>
<b>3VA2110-5MQ36-0AA0</b>
<b>3VA2125-5MQ32-0AA0</b>
<b>3VA2140-5MQ32-0AA0</b>
<b>3VA2163-5MQ32-0AA0</b>
<b>3VA2110-5MQ32-0AA0</b>
<b>3VA2216-5MQ32-0AA0</b>
<b>3VA2220-5MQ32-0AA0</b>
<b>3VA2325-5MQ32-0AA0</b>
<b>3VA2440-5MQ32-0AA0</b>
<b>3VA2450-5MQ32-0AA0</b>



PU (UNIT, SET, M) = 1

PS = 1 UNIT

PG = 1CB

Rated current $I_n$	SD	$I_{cu}$ up to 85 kA at 415 V, high breaking capacity H See "Overview", p. 2/6 and 2/7	(H)	SD	$I_{cu}$ up to 110 kA at 415 V, very high switching capacity C See "Overview", p. 2/6 and 2/7	(C)
		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU		Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU
A	d			d		

**Starter protection, ETU310M I**With adjustable short-circuit protection  $I_i$ 

	Connection with box terminal	Connection with box terminal
25	--	3VA2125-7MS36-0AA0
40	--	3VA2140-7MS36-0AA0
63	--	3VA2163-7MS36-0AA0
100	--	3VA2110-7MS36-0AA0
	Connection with nut keeper kit	Connection with nut keeper kit
25	--	3VA2125-7MS32-0AA0
40	--	3VA2140-7MS32-0AA0
63	--	3VA2163-7MS32-0AA0
100	--	3VA2110-7MS32-0AA0
160	--	3VA2216-7MS32-0AA0
200	--	3VA22 20-7MS32-0AA0
250	--	3VA2325-7MS32-0AA0
400	--	3VA2440-7MS32-0AA0
500	--	3VA2450-7MS32-0AA0

**Motor protection, ETU350M LSI**With adjustable overload protection  $I_r$  (delay adjustable via trip class  $T_C$  (10A, 10/10E, 20/20E), adjustable delayed short-circuit protection  $I_{sd}$ , and fixed instantaneous short-circuit protection  $I_i$ 

	Connection with box terminal	Connection with box terminal
25	--	3VA2125-7MN36-0AA0
40	--	3VA2140-7MN36-0AA0
63	--	3VA2163-7MN36-0AA0
100	--	3VA2110-7MN36-0AA0
	Connection with nut keeper kit	Connection with nut keeper kit
25	--	3VA2125-7MN32-0AA0
40	--	3VA2140-7MN32-0AA0
63	--	3VA2163-7MN32-0AA0
100	--	3VA2110-7MN32-0AA0
160	--	3VA2216-7MN32-0AA0
200	--	3VA2220-7MN32-0AA0
250	--	3VA2325-7MN32-0AA0
400	--	3VA2440-7MN32-0AA0
500	--	3VA2450-7MN32-0AA0

**Motor protection, with display, with metering function, ETU860M LSI G**With adjustable overload protection  $I_r$  (delay adjustable via trip class  $T_C$  (10A, 10/10E, 20/20E, 30/30E) or directly via  $T_p$  in the range of 3 ... 30 s at  $7.2 \times I$  (depending on size)), adjustable delayed short-circuit protection  $I_{sd}$ , and adjustable instantaneous short-circuit protection  $I_i$ , and fixed ground-fault protection  $I_g$ 

	Connection with box terminal	Connection with box terminal
25	--	3VA2125-7MQ36-0AA0
40	--	3VA2140-7MQ36-0AA0
63	--	3VA2163-7MQ36-0AA0
100	--	3VA2110-7MQ36-0AA0
	Connection with nut keeper kit	Connection with nut keeper kit
25	--	3VA2125-7MQ32-0AA0
40	--	3VA2140-7MQ32-0AA0
63	--	3VA2163-7MQ32-0AA0
100	--	3VA2110-7MQ32-0AA0
160	--	3VA2216-7MQ32-0AA0
200	--	3VA2220-7MQ32-0AA0
250	--	3VA2325-7MQ32-0AA0
400	--	3VA2440-7MQ32-0AA0
500	--	3VA2450-7MQ32-0AA0

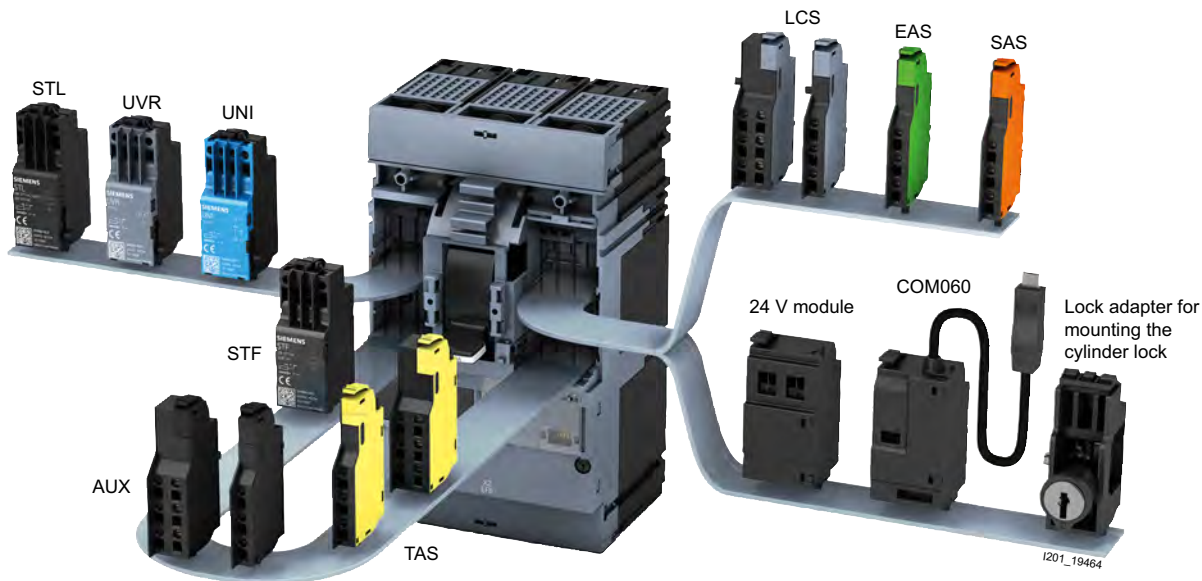
## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – 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	<ul style="list-style-type: none"> <li>• Shunt trip left STL</li> <li>• Shunt trip flexible STF</li> </ul>
Gray	Leading changeover switch LCS	<ul style="list-style-type: none"> <li>• Undervoltage release UVR</li> </ul>
Yellow	Trip alarm switches 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.

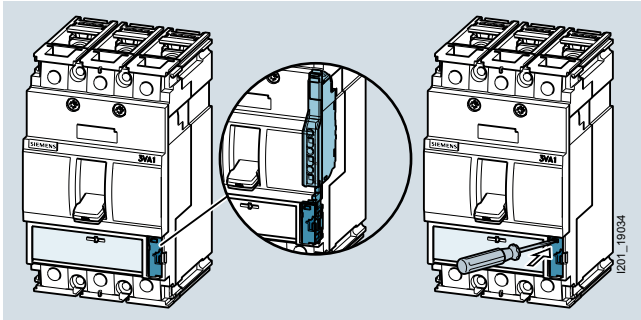
Undervoltage releases trip the 3VA molded case circuit breaker in the event that the rated voltage of a monitored circuit drops below a minimum permissible limit or fails altogether.

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.

### 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 mm<sup>2</sup>. 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](http://www.siemens.com/lowvoltage/configurator-3VA)

3VA molded-case circuit breaker Language

The configuration is complete. You can order this product. Additional actions

Basic configuration | Release | Form type | Main conductor connection | **Auxiliary release/auxiliary switch** | Mountable accessories | Result | CAD/CAE 1.81

Assembly option

Self-assembly

When selecting factory installation by Siemens, an assembly surcharge will be added to the value of the built-in components. The standard delivery time for fitted 3VA switches is 10 working days. The best possible delivery times will only be offered on purchase of the components.

**Auxiliary release**

No auxiliary release

STL 24 V AC 50/60 Hz / 12-30

STL 110-127 V AC 50/60 Hz / DC

STL 208-277 V AC 50/60 Hz / 220-250 V DC

LVR 24 V DC

LVR 120-127 V AC 50/60 Hz

LVR 208-230 V AC 50/60 Hz

UNI 24 V DC

**Slot assignment**

**Auxiliary switch/alarm switch**

Without auxiliary/alarm switches

Type HP 2 AUX

Type HQ 2 AUX

Type HQ 3 AUX

Type HQ 4 AUX

Type HQ 1 AUX + 1 TAS

Type HP 1 AUX + 1 TAS

Type HQ 2 AUX + 1 TAS

Type HP 2 AUX + 1 TAS

Type HQ 1 AUX + 1 TAS + 1 EAS

Type HQ 2 AUX + 1 TAS + 1 EAS

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Internal accessories

#### Design

2

Internal accessories		3VA11 2-pole	3VA10 3- and 4-pole	3VA11 3- and 4-pole	3VA12 3- and 4-pole
Optional equipment		160 A	100 A	160 A	250 A
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
<b>Auxiliary switch</b>	<b>Type</b>				
Auxiliary switch	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
	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
	AUX_HP	x		x	x x x
Leading changeover switch	LCS_HQ				
	LCS_HQ_el			x	x
	LCS_HP			x	x
<b>Alarm switch</b>	<b>Type</b>				
Trip alarm switch	TAS_HQ	x x	x x x x	x x x x	x x x x
	TAS_HQ_el	x x	x x x x	x x x x	x x x x
	TAS_HP	x		x	x
Short circuit alarm switch	SAS_HQ				x
	SAS_HQ_el				x
<b>Auxiliary release</b>	<b>Type</b>				
Shunt trip flexible	STF	x	x	x	x
Shunt trip left	STL	x	x	x	x
	STL (EI)	x	x	x	x
Residual current release	RCR <sup>1)</sup>			x	x
Undervoltage release	UVR	x	x	x	x
Universal release	UNI	x	x	x	x
<b>Other</b>					
Cylinder lock (type Ronis)			x	x	x

<sup>1)</sup> Included in the scope of supply for side mounted residual current devices

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

I201\_18812

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Internal accessories

2

Internal accessories Optional equipment		3VA23/24 3-pole										3VA23/24 4-pole																	
		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			
<b>Auxiliary switch</b>	<b>Type</b>																												
Auxiliary switch	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
	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
	AUX_HP			x	x					x	x				x	x						x	x					x	x
Leading changeover switch	LCS_HQ										x																		x
	LCS_HQ_el										x																		x
	LCS_HP											x																	x
<b>Alarm switch</b>	<b>Type</b>																												
Trip alarm switch	TAS_HQ				x	x			x	x												x	x						
	TAS_HQ_el				x	x			x	x												x	x						
	TAS_HP				x				x													x							
Electrical alarm switch	EAS_HQ																												x
	EAS_HQ_el																												x
<b>Auxiliary release</b>	<b>Type</b>																												
Shunt trip flexible	STF				x						x											x							x
Shunt trip left	STL				x																								
	STL (EI)				x																								
Undervoltage release	UVR				x																								
Universal release	UNI				x																								
<b>ETU/communication</b>	<b>Type</b>																												
Breaker data server communication module	COM060																												x
24 V module																													x
<b>Other</b>																													
Cylinder lock (type Ronis)																													x

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## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Internal accessories

2

Internal accessories		3VA25 3-pole										3VA25 4-pole																						
Optional equipment		3VA25 3-pole										3VA25 4-pole																						
Slot-No.:		24	23	22	21							11	12	13	14	15	16	24	23	22	21								11	12	13	14	15	16
<b>Auxiliary switch</b>	<b>Type</b>																																	
Auxiliary switch	AUX_HQ	x	x	x	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	x	x		
	AUX_HP	x	x											x	x			x	x										x	x				
Leading changeover switch	LCS_HQ											x														x								
	LCS_HQ_el											x														x								
	LCS_HP												x														x							
<b>Alarm switch</b>	<b>Type</b>																																	
Trip alarm switch	TAS_HQ											x	x													x	x							
	TAS_HQ_el											x	x													x	x							
	TAS_HP												x														x							
Electrical alarm switch	EAS_HQ																x														x			
	EAS_HQ_el																x														x			
<b>Auxiliary release</b>	<b>Type</b>																																	
Shunt trip flexible	STF		x																x															
Shunt trip left	STL		x																x															
	STL (EI)		x																x															
Undervoltage release	UVR		x																x															
Universal release	UNI		x																x															
<b>ETU/communication</b>	<b>Type</b>																																	
Breaker data server communication module	COM060												x																					
Module 24 V													x																					
<b>Other</b>																																		
Cylinder lock																	x														x			

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## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Internal accessories

#### Selection and ordering data





	Version	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Auxiliary switches and alarm switches (changeover contacts)</b>							
 3VA9988-0AA11 3VA9988-0AA12	<b>Auxiliary switch AUX</b>						
	Type/switching capacity/size	Electronic-compatible					
	HP/high switching capacity/2 slots	--	<b>3VA9988-0AA11</b>		1	1 unit	1CB
	HQ/compact size/1 slot	--	<b>3VA9988-0AA12</b>		1	1 unit	1CB
	HQ_el/compact size/1 slot	✓	<b>3VA9988-0AA13</b>		1	1 unit	1CB
 3VA9988-0AA21 3VA9988-0AA22	<b>Leading changeover switch LCS</b>						
	Type/switching capacity/size	Electronic-compatible					
	HP/high switching capacity/2 slots	--	<b>3VA9988-0AA21</b>		1	1 unit	1CB
	HQ/compact size/1 slot	--	<b>3VA9988-0AA22</b>		1	1 unit	1CB
	HQ_el/compact size/1 slot	✓	<b>3VA9988-0AA23</b>		1	1 unit	1CB
 3VA9988-0AB11 3VA9988-0AB12	<b>Trip alarm switch TAS</b>						
	Type/switching capacity/size	Electronic-compatible					
	HP/high switching capacity/2 slots	--	<b>3VA9988-0AB11</b>		1	1 unit	1CB
	HQ/compact size/1 slot	--	<b>3VA9988-0AB12</b>		1	1 unit	1CB
	HQ_el/compact size/1 slot	✓	<b>3VA9988-0AB13</b>		1	1 unit	1CB
 3VA9988-0AB32	<b>Short circuit alarm switch SAS (3VA1 only)</b>						
	For molded case circuit breakers/ Article No. stem	Electronic-compatible					
	For 3VA10, 3VA11						
	• HQ/compact size/1 slot	--	<b>3VA9988-0AB32</b>		1	1 unit	1CB
	• HQ_el/compact size/1 slot	✓	<b>3VA9988-0AB33</b>		1	1 unit	1CB
	For 3VA1 250 A						
• HQ/compact size/1 slot	--	<b>3VA9988-0AB34</b>		1	1 unit	1CB	
	• HQ_el/compact size/1 slot	✓	<b>3VA9988-0AB35</b>		1	1 unit	1CB
 3VA9988-0AB22	<b>Electrical alarm switch EAS (3VA2 only)</b>						
	Type/switching capacity/size	Electronic-compatible					
	HQ/compact size/1 slot	--	<b>3VA9988-0AB22</b>		1	1 unit	1CB
	HQ_el/compact size/1 slot	✓	<b>3VA9988-0AB23</b>		1	1 unit	1CB
<b>Undervoltage releases</b>							
 3VA9908-0BB15	<b>Undervoltage release UVR</b>						
	50/60 Hz V AC	V DC					
	--	12	<b>3VA9908-0BB10</b>		1	1 unit	1CB
	--	24	<b>3VA9908-0BB11</b>		1	1 unit	1CB
	--	48	<b>3VA9908-0BB12</b>		1	1 unit	1CB
	--	60	<b>3VA9908-0BB13</b>		1	1 unit	1CB
	--	125 ... 127	<b>3VA9908-0BB14</b>		1	1 unit	1CB
	--	220 ... 230	<b>3VA9908-0BB15</b>		1	1 unit	1CB
	--	250	<b>3VA9908-0BB16</b>		1	1 unit	1CB
	24	--	<b>3VA9908-0BB20</b>		1	1 unit	1CB
	48	--	<b>3VA9908-0BB21</b>		1	1 unit	1CB
	60	--	<b>3VA9908-0BB22</b>		1	1 unit	1CB
	110	--	<b>3VA9908-0BB23</b>		1	1 unit	1CB
	120 ... 127	--	<b>3VA9908-0BB24</b>		1	1 unit	1CB
208 ... 230	--	<b>3VA9908-0BB25</b>		1	1 unit	1CB	
380 ... 400	--	<b>3VA9908-0BB26</b>		1	1 unit	1CB	
440 ... 480	--	<b>3VA9908-0BB27</b>		1	1 unit	1CB	



## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Internal accessories

	Version	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	
<b>Shunt trip left</b>								
 3VA9988-0BL33	<b>Shunt trip left STL</b>							
	50/60 Hz V AC	V DC						
	--	12	<b>3VA9988-0BL10</b>		1	1 unit	1CB	
	24	24 ... 30	<b>3VA9988-0BL30</b>		1	1 unit	1CB	
	48 ... 60	48 ... 60	<b>3VA9988-0BL31</b>		1	1 unit	1CB	
	110 ... 127	110 ... 127	<b>3VA9988-0BL32</b>		1	1 unit	1CB	
	208 ... 277	220 ... 250	<b>3VA9988-0BL33</b>		1	1 unit	1CB	
	--	12	<b>3VA9988-0BL10</b>		1	1 unit	1CB	
	380 ... 600	--	<b>3VA9988-0BL20</b>		1	1 unit	1CB	
	<b>Shunt trip left STL (EI)</b>							
50/60 Hz V AC	V DC							
--	24	<b>3VA9988-0BM10</b>		1	1 unit	1CB		
<b>Shunt trip flexible STF</b>								
 3VA9988-0BA23	<b>Shunt trip flexible</b>							
	50/60 Hz V AC	V DC						
	24	--	<b>3VA9988-0BA20</b>		1	1 unit	1CB	
	48 ... 60	--	<b>3VA9988-0BA21</b>		1	1 unit	1CB	
	110 ... 127	--	<b>3VA9988-0BA22</b>		1	1 unit	1CB	
	208 ... 277	--	<b>3VA9988-0BA23</b>		1	1 unit	1CB	
	380 ... 500	--	<b>3VA9988-0BA24</b>		1	1 unit	1CB	
	600	--	<b>3VA9988-0BA25</b>		1	1 unit	1CB	
	<b>Universal release UNI</b>							
	 3VA9908-0BD13	<b>Universal release</b>						
50/60 Hz V AC		V DC						
--		12	<b>3VA9908-0BD11</b>		1	1 unit	1CB	
--		24	<b>3VA9908-0BD12</b>		1	1 unit	1CB	
--	48	<b>3VA9908-0BD13</b>		1	1 unit	1CB		
<b>Time-delay device for undervoltage releases</b>								
 3VA9988-0BF22	<b>Time-delay device</b>							
	V AC	V DC	Delay time					
	110	110	Fixed	<b>3VA9988-0BF21</b>		1	1 unit	1CB
	230	230	Fixed	<b>3VA9988-0BF22</b>		1	1 unit	1CB
	--	24	Fixed	<b>3VA9988-0BF23</b>		1	1 unit	1CB

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – 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.

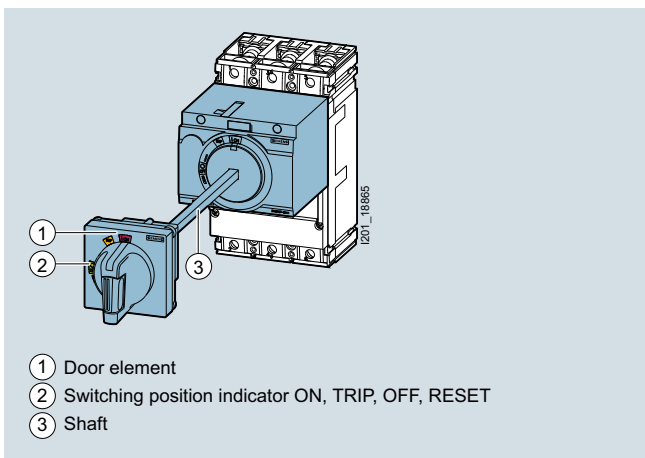
##### Front mounted rotary operator

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

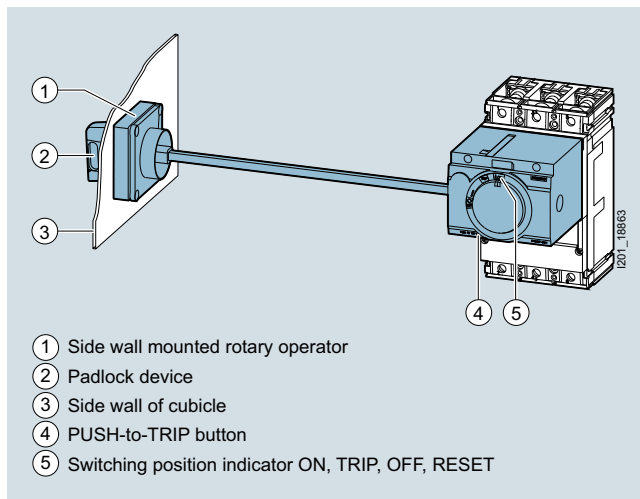
The door mounted rotary operator enables operation of the molded case circuit breaker from the cubicle door. The door element meets the requirements for degree of protection IP65 and features a door interlocking system and tolerance compensation. A variable depth adapter can be deployed to allow use 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.



- ① Side wall mounted rotary operator
- ② Padlock device
- ③ Side wall of cubicle
- ④ PUSH-to-TRIP button
- ⑤ Switching position indicator ON, TRIP, OFF, RESET

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 removed 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

## Selection and ordering data

Version	For molded case circuit breakers/ Article No. stem					SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	
	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24	3VA25							
<b>Front mounted rotary operators</b>												
 <p><b>Front mounted rotary operators</b></p> <ul style="list-style-type: none"> <li>• Rotary operator</li> <li>• Handle</li> <li>• For IEC</li> <li>• Degree of protection IP30</li> </ul>												
Type	Color											
• Standard, without illumination kit	Gray	✓	--	--	--	--	<b>3VA9157-0EK11</b>		1	1 unit	1CB	
		--	✓	--	--	--	<b>3VA9257-0EK11</b>		1	1 unit	1CB	
		--	--	✓	--	--	<b>3VA9267-0EK11</b>		1	1 unit	1CB	
		--	--	--	✓	--	<b>3VA9467-0EK11</b>		1	1 unit	1CB	
• Standard, with illumination kit	Gray	--	--	--	--	✓ <b>NEW</b>	<b>3VA9687-0EK11</b>		1	1 unit	1CB	
		✓	--	--	--	--	<b>3VA9157-0EK13</b>		1	1 unit	1CB	
		--	✓	--	--	--	<b>3VA9257-0EK13</b>		1	1 unit	1CB	
		--	--	✓	--	--	<b>3VA9267-0EK13</b>		1	1 unit	1CB	
• EMERGENCY-OFF, without illumination kit	Yellow-red	--	--	✓	--	--	<b>3VA9467-0EK13</b>		1	1 unit	1CB	
		✓	--	--	--	--	<b>3VA9157-0EK15</b>		1	1 unit	1CB	
		--	✓	--	--	--	<b>3VA9257-0EK15</b>		1	1 unit	1CB	
		--	--	✓	--	--	<b>3VA9267-0EK15</b>		1	1 unit	1CB	
• EMERGENCY-OFF, with illumination kit	Yellow-red	--	--	--	✓	--	<b>3VA9467-0EK15</b>		1	1 unit	1CB	
		✓	--	--	--	--	✓ <b>NEW</b>	<b>3VA9687-0EK15</b>		1	1 unit	1CB
		--	✓	--	--	--	<b>3VA9157-0EK17</b>		1	1 unit	1CB	
		--	--	✓	--	--	<b>3VA9257-0EK17</b>		1	1 unit	1CB	
• Standard, with door interlock	Gray	--	--	--	✓	--	<b>3VA9267-0EK17</b>		1	1 unit	1CB	
		✓	--	--	--	--	<b>3VA9157-0EK21</b>		1	1 unit	1CB	
		--	✓	--	--	--	<b>3VA9257-0EK21</b>		1	1 unit	1CB	
		--	--	✓	--	--	<b>3VA9267-0EK21</b>		1	1 unit	1CB	
• Standard, with door interlock, with illumination kit	Gray	--	--	--	✓	--	<b>3VA9467-0EK21</b>		1	1 unit	1CB	
		✓	--	--	--	--	<b>3VA9157-0EK23</b>		1	1 unit	1CB	
		--	✓	--	--	--	<b>3VA9257-0EK23</b>		1	1 unit	1CB	
		--	--	✓	--	--	<b>3VA9267-0EK23</b>		1	1 unit	1CB	
• EMERGENCY-OFF, with door interlock	Yellow-red	--	--	--	✓	--	<b>3VA9467-0EK23</b>		1	1 unit	1CB	
		✓	--	--	--	--	<b>3VA9157-0EK25</b>		1	1 unit	1CB	
		--	✓	--	--	--	<b>3VA9257-0EK25</b>		1	1 unit	1CB	
		--	--	✓	--	--	<b>3VA9267-0EK25</b>		1	1 unit	1CB	
• EMERGENCY-OFF, with door interlock, with illumination kit	Yellow-red	--	--	--	✓	--	<b>3VA9467-0EK25</b>		1	1 unit	1CB	
		✓	--	--	--	--	<b>3VA9157-0EK27</b>		1	1 unit	1CB	
		--	✓	--	--	--	<b>3VA9257-0EK27</b>		1	1 unit	1CB	
		--	--	✓	--	--	<b>3VA9267-0EK27</b>		1	1 unit	1CB	
• Without handle, with shaft stub, without door interlock	Gray	--	--	--	✓	--	<b>3VA9467-0EK27</b>		1	1 unit	1CB	
		✓	--	--	--	--	<b>3VA9157-0GK00</b>		1	1 unit	1CB	
		--	✓	--	--	--	<b>3VA9257-0GK00</b>		1	1 unit	1CB	
		--	--	✓	--	--	<b>3VA9267-0GK00</b>		1	1 unit	1CB	
		--	--	--	✓	✓ <b>NEW</b>	<b>3VA9467-0GK00</b>		1	1 unit	1CB	
		--	--	--	--	✓ <b>NEW</b>	<b>3VA9687-0GK00</b>		1	1 unit	1CB	


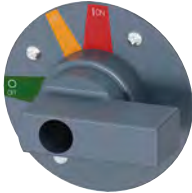
3VA9267-0GK00

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Manual operators

2

Version	For molded case circuit breakers/ Article No. stem					SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?ArticleNo.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG																																																																																																																																																																																																								
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 <p><b>Door mounted rotary operator</b></p> <ul style="list-style-type: none"> <li>• Rotary operator</li> <li>• Shaft 300 mm (325 mm for 1000 A)</li> <li>• Mounting tolerance compensation</li> <li>• Handle with masking plate 75 × 75 mm</li> <li>• Degree of protection IP65</li> </ul>																																																																																																																																																																																																																			
<table border="1"> <thead> <tr> <th>Type</th> <th>Color</th> <th>3VA10 3VA11</th> <th>3VA12</th> <th>3VA20 3VA21 3VA22</th> <th>3VA23 3VA24</th> <th>3VA25</th> <th>Article No.</th> <th>Price</th> <th>PU</th> <th>PS</th> <th>PG</th> </tr> </thead> <tbody> <tr> <td rowspan="5">• Standard</td> <td rowspan="5">Gray</td> <td>✓</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>3VA9157-0FK21</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td>--</td> <td>✓</td> <td>--</td> <td>--</td> <td>--</td> <td>3VA9257-0FK21</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td>--</td> <td>--</td> <td>✓</td> <td>--</td> <td>--</td> <td>3VA9267-0FK21</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td>--</td> <td>--</td> <td>--</td> <td>✓</td> <td>--</td> <td>3VA9467-0FK21</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>✓ <b>NEW</b></td> <td>3VA9687-0FK21</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td rowspan="4">• Standard, with illumination kit</td> <td rowspan="4">Gray</td> <td>✓</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>3VA9157-0FK23</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td>--</td> <td>✓</td> <td>--</td> <td>--</td> <td>--</td> <td>3VA9257-0FK23</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td>--</td> <td>--</td> <td>✓</td> <td>--</td> <td>--</td> <td>3VA9267-0FK23</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td>--</td> <td>--</td> <td>--</td> <td>✓</td> <td>--</td> <td>3VA9467-0FK23</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td rowspan="5">• EMERGENCY-OFF</td> <td rowspan="5">Yellow-red</td> <td>✓</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>3VA9157-0FK25</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td>--</td> <td>✓</td> <td>--</td> <td>--</td> <td>--</td> <td>3VA9257-0FK25</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td>--</td> <td>--</td> <td>✓</td> <td>--</td> <td>--</td> <td>3VA9267-0FK25</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td>--</td> <td>--</td> <td>--</td> <td>✓</td> <td>--</td> <td>3VA9467-0FK25</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>✓ <b>NEW</b></td> <td>3VA9687-0FK25</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td rowspan="4">• EMERGENCY-OFF, with illumination kit</td> <td rowspan="4">Yellow-red</td> <td>✓</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>3VA9157-0FK27</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td>--</td> <td>✓</td> <td>--</td> <td>--</td> <td>--</td> <td>3VA9257-0FK27</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td>--</td> <td>--</td> <td>✓</td> <td>--</td> <td>--</td> <td>3VA9267-0FK27</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> <tr> <td>--</td> <td>--</td> <td>--</td> <td>✓</td> <td>--</td> <td>3VA9467-0FK27</td> <td></td> <td>1</td> <td>1 unit</td> <td>1CB</td> </tr> </tbody> </table>												Type	Color	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24	3VA25	Article No.	Price	PU	PS	PG	• Standard	Gray	✓	--	--	--	--	3VA9157-0FK21		1	1 unit	1CB	--	✓	--	--	--	3VA9257-0FK21		1	1 unit	1CB	--	--	✓	--	--	3VA9267-0FK21		1	1 unit	1CB	--	--	--	✓	--	3VA9467-0FK21		1	1 unit	1CB	--	--	--	--	✓ <b>NEW</b>	3VA9687-0FK21		1	1 unit	1CB	• Standard, with illumination kit	Gray	✓	--	--	--	--	3VA9157-0FK23		1	1 unit	1CB	--	✓	--	--	--	3VA9257-0FK23		1	1 unit	1CB	--	--	✓	--	--	3VA9267-0FK23		1	1 unit	1CB	--	--	--	✓	--	3VA9467-0FK23		1	1 unit	1CB	• EMERGENCY-OFF	Yellow-red	✓	--	--	--	--	3VA9157-0FK25		1	1 unit	1CB	--	✓	--	--	--	3VA9257-0FK25		1	1 unit	1CB	--	--	✓	--	--	3VA9267-0FK25		1	1 unit	1CB	--	--	--	✓	--	3VA9467-0FK25		1	1 unit	1CB	--	--	--	--	✓ <b>NEW</b>	3VA9687-0FK25		1	1 unit	1CB	• EMERGENCY-OFF, with illumination kit	Yellow-red	✓	--	--	--	--	3VA9157-0FK27		1	1 unit	1CB	--	✓	--	--	--	3VA9257-0FK27		1	1 unit	1CB	--	--	✓	--	--	3VA9267-0FK27		1	1 unit	1CB	--	--	--	✓	--	3VA9467-0FK27		1	1 unit	1CB
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8UD1900-2WB00


8UD1900-4WB00

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Manual operators

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	Version	For molded case circuit breakers/ Article No. stem					SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24	3VA25						
<b>Adapter for shaft</b>												
Versions												
	• 8 mm x 8 mm With door mounted rotary operator and side wall mounted rotary operator	✓	✓	✓	✓	--		<b>8UD1900-2DA00</b>		1	1 unit	1CB
	• 12 mm x 12 mm <b>NEW</b> With door mounted rotary operator	--	--	--	--	✓		<b>8UD1900-4DA00</b>		1	1 unit	1CB
<b>Door coupling</b>												
Versions												
	• 8 mm x 8 mm	✓	✓	✓	✓	--		<b>8UD1900-2HA00</b>		1	1 unit	1CB
	• 12 mm x 12 mm <b>NEW</b>	--	--	--	--	✓		<b>8UD1900-4HA00</b>		1	1 unit	1CL
<b>Mounting tolerance compensation</b>												
Versions												
	• 8 mm x 8 mm	✓	✓	✓	✓	--		<b>8UD1900-2GA00</b>		1	1 unit	1CB
	• 12 mm x 12 mm <b>NEW</b>	--	--	--	--	✓		<b>8UD1900-4GA00</b>		1	1 unit	1CL
<b>Fixing bracket for shaft</b>												
		✓	✓	--	--	--		<b>3VA9287-0GA80</b>		1	1 unit	1CB
		--	--	✓	✓	--		<b>3VA9487-0GA80</b>		1	1 unit	1CB
	<b>Variable depth adapter</b> 8 x 8 mm							<b>3VA9487-0GB10</b>		1	1 unit	1CB

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Manual operators

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Version	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	
	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24							
<b>Side wall mounted rotary operators</b>											
<b>Side wall mounted rotary operators</b> <ul style="list-style-type: none"> <li>Without mounting plate           <ul style="list-style-type: none"> <li>Rotary operator with shaft 300 mm</li> <li>Handle with masking plate 75 x 75 mm</li> <li>Degree of protection IP65</li> </ul> </li> </ul>											
 3VA9267-0PK11	Type	Color									
	• Standard	Gray	✓	--	--	--	3VA9157-0PK11	1	1 unit	1CB	
			--	✓	--	--	3VA9257-0PK11	1	1 unit	1CB	
			--	--	✓	--	3VA9267-0PK11	1	1 unit	1CB	
			--	--	--	✓	3VA9467-0PK11	1	1 unit	1CB	
	• Standard, with illumination kit	Gray	✓	--	--	--	3VA9157-0PK13	1	1 unit	1CB	
			--	✓	--	--	3VA9257-0PK13	1	1 unit	1CB	
			--	--	✓	--	3VA9267-0PK13	1	1 unit	1CB	
			--	--	--	✓	3VA9467-0PK13	1	1 unit	1CB	
	• EMERGENCY-OFF	Yellow-red	✓	--	--	--	3VA9157-0PK15	1	1 unit	1CB	
			--	✓	--	--	3VA9257-0PK15	1	1 unit	1CB	
			--	--	✓	--	3VA9267-0PK15	1	1 unit	1CB	
			--	--	--	✓	3VA9467-0PK15	1	1 unit	1CB	
	• EMERGENCY-OFF, with illumination kit	Yellow-red	✓	--	--	--	3VA9157-0PK17	1	1 unit	1CB	
			--	✓	--	--	3VA9257-0PK17	1	1 unit	1CB	
			--	--	✓	--	3VA9267-0PK17	1	1 unit	1CB	
--			--	--	✓	3VA9467-0PK17	1	1 unit	1CB		
<b>Side wall mounted rotary operators</b>											
<b>Side wall mounted rotary operators</b> <ul style="list-style-type: none"> <li>With mounting plate           <ul style="list-style-type: none"> <li>Rotary operator with short shaft</li> <li>Handle with masking plate 75 x 75 mm</li> <li>Degree of protection IP65</li> </ul> </li> </ul>											
 3VA9267-0PK51	Type	Color									
	• Standard	Gray	✓	--	--	--	3VA9157-0PK51	1	1 unit	1CB	
			--	✓	--	--	3VA9257-0PK51	1	1 unit	1CB	
			--	--	✓	--	3VA9267-0PK51	1	1 unit	1CB	
	• Standard, with illumination kit	Gray	✓	--	--	--	3VA9157-0PK53	1	1 unit	1CB	
			--	✓	--	--	3VA9257-0PK53	1	1 unit	1CB	
			--	--	✓	--	3VA9267-0PK53	1	1 unit	1CB	
	• EMERGENCY-OFF	Yellow-red	✓	--	--	--	3VA9157-0PK55	1	1 unit	1CB	
			--	✓	--	--	3VA9257-0PK55	1	1 unit	1CB	
			--	--	✓	--	3VA9267-0PK55	1	1 unit	1CB	
	• EMERGENCY-OFF, with illumination kit	Yellow-red	✓	--	--	--	3VA9157-0PK57	1	1 unit	1CB	
			--	✓	--	--	3VA9257-0PK57	1	1 unit	1CB	
			--	--	✓	--	3VA9267-0PK57	1	1 unit	1CB	
	<b>Extended DIN rail for N/PE terminal</b>						3VA9987-0GL30	1	1 unit	1CB	
	<ul style="list-style-type: none"> <li>For mounting plate</li> <li>Up to 250 A</li> </ul>										
	 3VA9987-0GL30										

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Manual operators

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Version	For molded case circuit breakers/Article No. stem					SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG																																																																																																																																																																																		
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## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Manual operators

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Version	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>General accessories for manual operators</b>						
 3VA9087-0SX10		<b>Labeling plate for manual operators</b>	<b>3VA9087-0SX10</b>	1	10 units	1CB
 8UD1900-0KA20		<b>Illumination kit for manual operators</b> 24 V DC voltage	For molded case circuit breakers			
		3VA1, 100 ... 250 A	Front mounted rotary operators	<b>8UD1900-0KA10</b>	1	1 unit 1CB
		3VA2, 100 ... 630 A	Front mounted rotary operators	<b>8UD1900-0KA20</b>	1	1 unit 1CB
		3VA1, 3VA2, 100 ... 630 A	Door mounted rotary operator and side wall mounted rotary operator	<b>8UD1900-0KA20</b>	1	1 unit 1CB
 8UD1900-0MB01		<b>Cylinder lock (type Kaba)</b> • For door mounted rotary operator and side wall mounted rotary operator (in the masking plate) • Standard masking plate	Key 1	<b>8UD1900-0MB01</b>	1	1 unit 1CB
			Key 2	<b>8UD1900-0NB01</b>	1	1 unit 1CB
			Key 3	<b>8UD1900-0PB01</b>	1	1 unit 1CB
			Key 4	<b>8UD1900-0QB01</b>	1	1 unit 1CB
 8UD1900-0MB05		<b>Cylinder lock (type Kaba)</b> • For door mounted rotary operator and side wall mounted rotary operator (in the masking plate) • EMERGENCY-OFF masking plate	Key 1	<b>8UD1900-0MB05</b>	1	1 unit 1CB
			Key 2	<b>8UD1900-0NB05</b>	1	1 unit 1CB
			Key 3	<b>8UD1900-0PB05</b>	1	1 unit 1CB
			Key 4	<b>8UD1900-0QB05</b>	1	1 unit 1CB
 3VA9980-0VL10		<b>Cylinder lock (type Ronis)</b> • 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	Key 1	<b>3VA9980-0VL10</b>	1	1 unit 1CB
			Key 2	<b>3VA9980-0VL20</b>	1	1 unit 1CB
			Key 3	<b>3VA9980-0VL30</b>	1	1 unit 1CB
			Key 4	<b>3VA9980-0VL40</b>	1	1 unit 1CB
		Note	The cylinder lock adapter for rotary operators is also needed for locking or interlocking circuit breakers via rotary operators.			
 3VA9980-0LF20		<b>Cylinder lock adapter for rotary operators</b> To mount the cylinder lock in the rotary operator (also possible with door mounted rotary operator and side wall mounted rotary operator)	<b>3VA9980-0LF20</b>	1	1 unit	1CB



## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Motor operators

2

#### 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 supply voltage)	42 V ... 60 V AC/ 24 V ... 60 V DC (0.85 ... 1.26) 110 V ... 230 V AC/ 110 V ... 250 V DC (0.85 ... 1.1)
Power consumption	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 IP30			
Rated control supply voltage (operating range of control supply voltage)	24 V ... 60 V DC (0.85 ... 1.26) 110 V ... 230 V AC/ 110 V ... 250 V DC (0.85 ... 1.1)			
Power consumption	250 W, max. 500 W (60 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	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?ArticleNo">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
<b>Motor operators</b>										
<b>Side mounted motor operator (MO310)</b>										
Versions										
 3VA9267-0HB10	• 24 ... 60 V DC 42 ... 60 V AC	✓	--	--	--					
	• 110 ... 230 V AC, 110 ... 250 V DC	✓	--	--	--					
<b>Motor operator without stored energy feature (MO320)</b>										
Versions										
 3VA9267-0HA10	• 24 ... 60 V DC	✓	--	--	--					
		--	✓	--	--					
		--	--	✓	--					
		--	--	--	✓					
	• 110 ... 230 V AC, 110 ... 250 V DC	✓	--	--	--					
		--	✓	--	--					
		--	--	✓	--					
		--	--	--	✓					

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – 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:

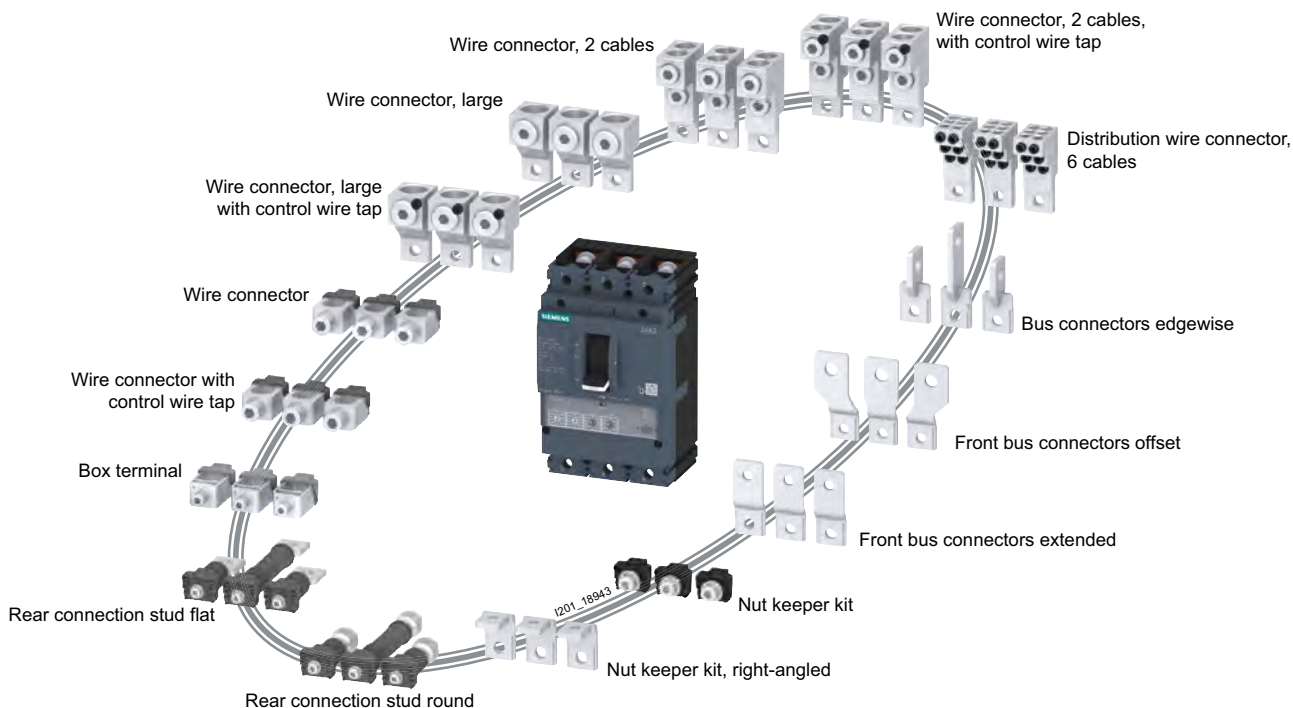
- Installation, e.g. connection to cables or busbars
- Dimensioning of the cables and busbars
- Installation medium, e.g. rigid or flexible

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.



#### 3VA2 conductor cross-sections 1000 A







Connection technology	Cable medium	Cables and busbars	Dimensions	3VA2 1000 A
  	Stranded cable	Cu/Al cable	mm <sup>2</sup>	120 ... 300
	Finely stranded cable	Cu cable	mm <sup>2</sup>	120 ... 185
	Finely stranded with insulated end sleeve	Cu cable	mm <sup>2</sup>	120 ... 185
Front busbar connector	Direct (width x height)	Busbar	mm x mm	50 x 28
	Front bus connectors extended	Busbar	mm x mm	50 x 28

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Connection technology

#### 3VA1/3VA2 conductor cross-sections

Connection technology	Cable medium	Cables and busbars	Dimensions	3VA1		3VA2		
				100 A/160 A	250 A	100 A/160 A/250 A	400 A	630 A
 Box terminal	Solid cable	Cu cable	mm <sup>2</sup>	1.5 ... 16	6 ... 16	6 ... 16	--	--
	Stranded cable	Cu cable	mm <sup>2</sup>	1.5 ... 70	6 ... 120 50 ... 185	6 ... 120 25 ... 185	35 ... 300	35 ... 300 <sup>1)</sup>
	Finely stranded cable	Cu cable	mm <sup>2</sup>	1.5 ... 50	10 ... 95 95 ... 150	10 ... 95 35 ... 150	25 ... 240	25 ... 240 <sup>1)</sup>
	Finely stranded with insulated end sleeve	Cu cable	mm <sup>2</sup>	1.5 ... 50	6 ... 95 50 ... 150	6 ... 95 25 ... 150	25 ... 240	25 ... 240 <sup>1)</sup>
	Flexible copper busbar	Flexible busbar	mm x mm	2x ..6x [13 x 0.5] ... 2x ..9x [9 x 0.8]	2x ..6x [13 x 0.5] ... 2x ..6x [15.5 x 0.8] ... 2x ..6x [20 x 1]	2x ..6x [13 x 0.5] ... 2x ..6x [15.5 x 0.8] 2x ..6x [20 x 1]	2x ..10x [20 x 1] ... 2x ..10x [24 x 1]	2x ..10x [20 x 1] ... 2x ..10x [24 x 1]
 Wire connectors	Solid cable	Cu/Al cable	mm <sup>2</sup>	2.5/4 ... 16	--	1.5/4 ... 16	--	--
	Stranded cable	Cu/Al cable	mm <sup>2</sup>	1.5/4 ... 95	35 ... 185	1.5/4 ... 50 16 ... 185	50 ... 300	--
	Finely stranded cable	Cu cable	mm <sup>2</sup>	1.5 ... 35	35 ... 150	1.5 ... 35 25 ... 150	50 ... 240	--
	Finely stranded with insulated end sleeve	Cu cable	mm <sup>2</sup>	1.5 ... 35	35 ... 150	1.5 ... 35 16 ... 120	50 ... 240	--
 Wire connector, large	Solid cable			--	--	--	--	--
	Stranded cable	Cu/Al cable	mm <sup>2</sup>	25 ... 150	50 ... 240	50 ... 240	--	--
	Finely stranded cable	Cu cable	mm <sup>2</sup>	25 ... 120	50 ... 185	50 ... 185	--	--
	Finely stranded with insulated end sleeve	Cu cable	mm <sup>2</sup>	25 ... 95	50 ... 185	50 ... 185	--	--
 Wire connector for 2 cables	Solid cable			--	--	--	--	--
	Stranded cable	Cu/Al cable	mm <sup>2</sup>	--	25 ... 150	25 ... 150	70 ... 300	70 ... 300
	Finely stranded cable	Cu cable	mm <sup>2</sup>	--	25 ... 150	25 ... 150	70 ... 240	70 ... 240
	Finely stranded with insulated end sleeve	Cu cable	mm <sup>2</sup>	--	25 ... 70	25 ... 70	70 ... 185	70 ... 185
 Distribution wire connector for 6 cables	Solid cable	Cu/Al cable	mm <sup>2</sup>	1.5/4 ... 16	1.5/4 ... 16	1.5/4 ... 16	1.5/4 ... 16	1.5/4 ... 16
	Stranded cable	Cu/Al cable	mm <sup>2</sup>	1.5/4 ... 35	1.5/4 ... 35	1.5/4 ... 35	1.5/4 ... 35	1.5/4 ... 35
	Finely stranded cable	Cu cable	mm <sup>2</sup>	1.5 ... 25	1.5 ... 25	1.5 ... 25	1.5 ... 25	1.5 ... 25
	Finely stranded with insulated end sleeve	Cu cable	mm <sup>2</sup>	1.5 ... 25	1.5 ... 25	1.5 ... 25	1.5 ... 25	1.5 ... 25
 Front busbar connector	Direct (width x height)	Busbar	mm x mm	17 x 6.5	25 x 8	25 x 8	35 x 10	35 x 10
	Front bus connectors extended	Busbar	mm x mm	22 x 8	32 x 10	32 x 10	40 x 12.5	40 x 12.5
	Front bus connectors offset	Busbar	mm x mm	30 x 8	35 x 10	35 x 10	60 x 12.5	60 x 12.5

<sup>1)</sup> Only approved up to rated current 400 A

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

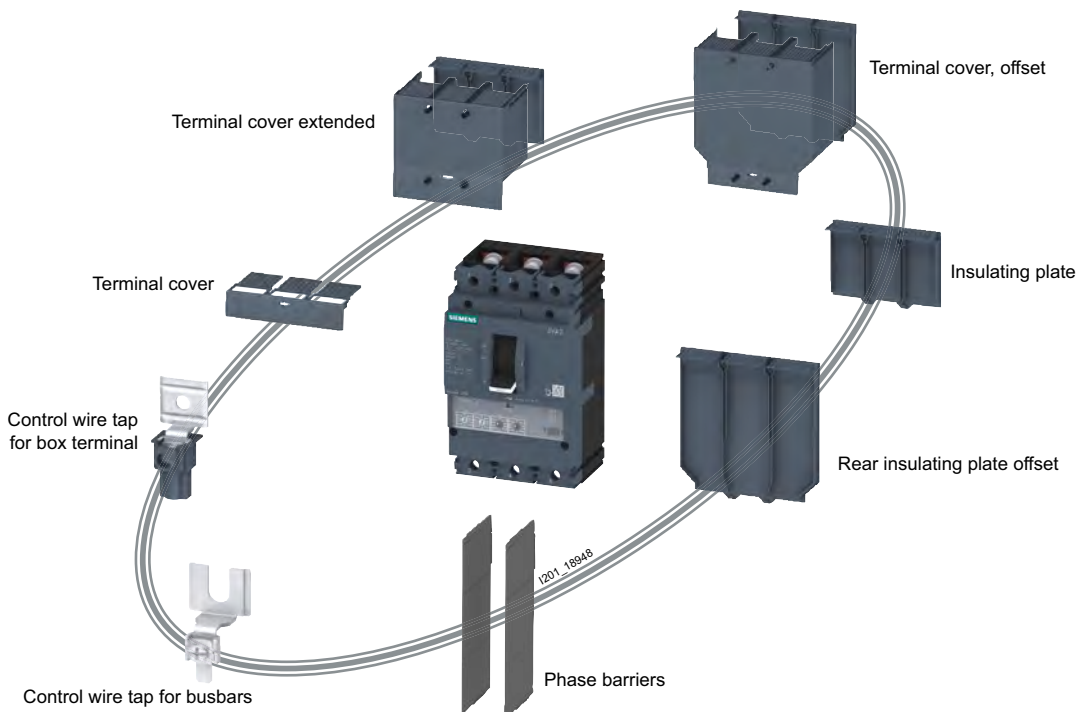
#### Connection technology

##### 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.
- Broad 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 2/10, [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 6 A. Cables of up to 2.5 mm<sup>2</sup> 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

## Molded Case Circuit Breakers

## 3VA Molded Case Circuit Breakers – 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	For molded case circuit breakers/ Article No. stem					SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	
			3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24	3VA25	d						
<b>Box terminals – suitable for all installation types (fixed-mounted, plug-in and draw-out versions)</b>														
 3VA9163-0JA12	<b>Box terminal</b> • Connection of Cu cable • Included in scope of supply: 3 single terminals	1.5 mm <sup>2</sup> 70 mm <sup>2</sup>	✓	--	--	--	--		<b>3VA9153-0JA11</b>		1	1 unit	1CB	
		6 mm <sup>2</sup> 120 mm <sup>2</sup>	--	✓	--	--	--	--		<b>3VA9253-0JA11</b>		1	1 unit	1CB
		50 mm <sup>2</sup> 185 mm <sup>2</sup>	--	✓	--	--	--	--		<b>3VA9253-0JA12</b>		1	1 unit	1CB
		6 mm <sup>2</sup> 120 mm <sup>2</sup>	--	--	✓	--	--	--		<b>3VA9163-0JA12</b>		1	1 unit	1CB
		25 mm <sup>2</sup> 185 mm <sup>2</sup>	--	--	✓	--	--	--		<b>3VA9263-0JA12</b>		1	1 unit	1CB
		35 mm <sup>2</sup> 300 mm <sup>2</sup>	--	--	--	--	✓ <sup>1)</sup>	--		<b>3VA9483-0JA13</b>		1	1 unit	1CB
 3VA9164-0JA12	<b>Box terminal</b> • Connection of Cu cable • Included in scope of supply: 4 single terminals	1.5 mm <sup>2</sup> 70 mm <sup>2</sup>	✓	--	--	--	--		<b>3VA9154-0JA11</b>		1	1 unit	1CB	
		6 mm <sup>2</sup> 120 mm <sup>2</sup>	--	✓	--	--	--	--		<b>3VA9254-0JA11</b>		1	1 unit	1CB
		50 mm <sup>2</sup> 185 mm <sup>2</sup>	--	✓	--	--	--	--		<b>3VA9254-0JA12</b>		1	1 unit	1CB
		6 mm <sup>2</sup> 120 mm <sup>2</sup>	--	--	✓	--	--	--		<b>3VA9164-0JA12</b>		1	1 unit	1CB
		25 mm <sup>2</sup> 185 mm <sup>2</sup>	--	--	✓	--	--	--		<b>3VA9264-0JA12</b>		1	1 unit	1CB
		35 mm <sup>2</sup> 300 mm <sup>2</sup>	--	--	--	--	✓ <sup>1)</sup>	--		<b>3VA9484-0JA13</b>		1	1 unit	1CB
<b>Wire connectors suitable for all installation types (fixed-mounted, plug-in and draw-out versions)</b>														
 3VA9103-0JB11	<b>Wire connector</b> • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals	1.5 mm <sup>2</sup> 95 mm <sup>2</sup>	✓	--	--	--	--		<b>3VA9113-0JB11</b>		1	1 unit	1CB	
		35 mm <sup>2</sup> 185 mm <sup>2</sup>	--	✓	--	--	--	--		<b>3VA9253-0JB12</b>		1	1 unit	1CB
		1.5 mm <sup>2</sup> 50 mm <sup>2</sup>	--	--	✓	--	--	--		<b>3VA9103-0JB11</b>		1	1 unit	1CB
		16 mm <sup>2</sup> 185 mm <sup>2</sup>	--	--	✓	--	--	--		<b>3VA9263-0JB12</b>		1	1 unit	1CB
		50 mm <sup>2</sup> 300 mm <sup>2</sup>	--	--	--	--	✓	--		<b>3VA9383-0JB13</b>		1	1 unit	1CB
 3VA9503-0JB23	<b>Wire connector, 2 cables</b> • Connection of Cu/Al cable • included in scope of supply: 3 single terminals and 1 terminal cover, short	120 mm <sup>2</sup> 300 mm <sup>2</sup>	--	--	--	--	✓ <b>NEW</b>		<b>3VA9503-0JB23</b>		1	1 unit	1CB	
 3VA9104-0JB11	<b>Wire connector</b> • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals	1.5 mm <sup>2</sup> 95 mm <sup>2</sup>	✓	--	--	--	--		<b>3VA9114-0JB11</b>		1	1 unit	1CB	
		35 mm <sup>2</sup> 185 mm <sup>2</sup>	--	✓	--	--	--	--		<b>3VA9254-0JB12</b>		1	1 unit	1CB
		1.5 mm <sup>2</sup> 50 mm <sup>2</sup>	--	--	✓	--	--	--		<b>3VA9104-0JB11</b>		1	1 unit	1CB
		16 mm <sup>2</sup> 185 mm <sup>2</sup>	--	--	✓	--	--	--		<b>3VA9264-0JB12</b>		1	1 unit	1CB
		50 mm <sup>2</sup> 300 mm <sup>2</sup>	--	--	--	--	✓	--		<b>3VA9384-0JB13</b>		1	1 unit	1CB
 3VA9504-0JB23	<b>Wire connector, 2 cables</b> • Connection of Cu/Al cable • included in scope of supply: 4 single terminals and 1 terminal cover, short	120 mm <sup>2</sup> 300 mm <sup>2</sup>	--	--	--	--	✓ <b>NEW</b>		<b>3VA9504-0JB23</b>		1	1 unit	1CB	
 3VA9103-0JG11	<b>Wire connector with control wire tap</b> • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals	16 mm <sup>2</sup> 95 mm <sup>2</sup>	✓	--	--	--	--		<b>3VA9113-0JG11</b>		1	1 unit	1CB	
		35 mm <sup>2</sup> 185 mm <sup>2</sup>	--	✓	--	--	--	--		<b>3VA9253-0JG12</b>		1	1 unit	1CB
		1.5 mm <sup>2</sup> 50 mm <sup>2</sup>	--	--	✓	--	--	--		<b>3VA9103-0JG11</b>		1	1 unit	1CB
		16 mm <sup>2</sup> 185 mm <sup>2</sup>	--	--	✓	--	--	--		<b>3VA9263-0JG12</b>		1	1 unit	1CB
		50 mm <sup>2</sup> 300 mm <sup>2</sup>	--	--	--	--	✓	--		<b>3VA9383-0JG13</b>		1	1 unit	1CB




1) Only approved up to rated current 400 A





## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

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

2

	Version	Minimum for stranded cable	Maximum for stranded cable	For molded case circuit breakers/ Article No. stem					SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24	3VA25						
 3VA9503-0JG23	<b>Wire connector, 2 cables, with control wire tap</b> • Connection of Cu/Al cable • included in scope of supply: 3 single terminals and 1 terminal cover, short	120 mm <sup>2</sup>	300 mm <sup>2</sup>	--	--	--	--	✓ <b>NEW</b>			1	1 unit	1CB	
 3VA9104-0JG11	<b>Wire connector with control wire tap</b> • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals	16 mm <sup>2</sup>	95 mm <sup>2</sup>	✓	--	--	--	--			1	1 unit	1CB	
		35 mm <sup>2</sup>	185 mm <sup>2</sup>	--	✓	--	--	--			1	1 unit	1CB	
		1.5 mm <sup>2</sup>	50 mm <sup>2</sup>	--	--	✓	--	--			1	1 unit	1CB	
		16 mm <sup>2</sup>	185 mm <sup>2</sup>	--	--	✓	--	--			1	1 unit	1CB	
		50 mm <sup>2</sup>	300 mm <sup>2</sup>	--	--	--	✓	--			1	1 unit	1CB	
 3VA9504-0JG23	<b>Wire connector, 2 cables, with control wire tap</b> • Connection of Cu/Al cable • included in scope of supply: 4 single terminals and 1 terminal cover, short	120 mm <sup>2</sup>	300 mm <sup>2</sup>	--	--	--	--	✓ <b>NEW</b>			1	1 unit	1CB	

	Version	Max. tap width	Max. tap thickness	For molded case circuit breakers/ Article No. stem					SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24	3VA25						
<b>Nut keeper kits suitable for all installation types (fixed-mounted, plug-in and draw-out versions)</b>														
 3VA9203-0QA00	<b>Nut keeper kit</b> Included in scope of supply: • 3 single terminals	17 mm	6.5 mm	✓	--	--	--	--			1	1 unit	1CB	
		25 mm	8 mm	--	✓	--	--	--			1	1 unit	1CB	
		25 mm	8 mm	--	--	✓	--	--			1	1 unit	1CB	
		35 mm	10 mm	--	--	--	✓	--			1	1 unit	1CB	
 3VA9603-0QA00	<b>Nut keeper kit</b> Included in scope of supply: • Nut keeper kit for 3-pole breakers • 1 terminal cover	50 mm	28 mm	--	--	--	--	✓ <b>NEW</b>			1	1 unit	1CB	
 3VA9204-0QA00	<b>Nut keeper kit</b> Included in scope of supply: • 4 single terminals	17 mm	6.5 mm	✓	--	--	--	--			1	1 unit	1CB	
		25 mm	8 mm	--	✓	--	--	--			1	1 unit	1CB	
		25 mm	8 mm	--	--	✓	--	--			1	1 unit	1CB	
		35 mm	10 mm	--	--	--	✓	--			1	1 unit	1CB	
 3VA9604-0QA00	<b>Nut keeper kit</b> Included in scope of supply: • Nut keeper kit for 4-pole breakers • 1 terminal cover	50 mm	28 mm	--	--	--	--	✓ <b>NEW</b>			1	1 unit	1CB	









## Molded Case Circuit Breakers

## 3VA Molded Case Circuit Breakers – Accessories, IEC

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





2

	Version	Max. tap width	Max. tap thickness	For molded case circuit breakers/Article No. stem						SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24	3VA25	3VA26						
<b>Bus connectors extended suitable for all installation types (fixed-mounted, plug-in and draw-out versions)</b>															
 3VA9263-0QB00	<b>Front bus connectors extended</b> Included in scope of supply: • 3 single terminals • 2 phase barriers	22 mm	8 mm	✓	--	--	--	--		3VA9153-0QB00		1	1 unit	1CB	
		32 mm	10 mm	--	✓	--	--	--		3VA9253-0QB00		1	1 unit	1CB	
		32 mm	10 mm	--	--	✓	--	--		3VA9263-0QB00		1	1 unit	1CB	
		40 mm	12.5 mm	--	--	--	✓	--		3VA9483-0QB00		1	1 unit	1CB	
 3VA9603-0QB00	<b>Front bus connectors extended</b> Included in scope of supply: • 3 single terminals • 2 phase barriers	50 mm	28 mm	--	--	--	--	✓ <b>NEW</b>		3VA9603-0QB00		1	1 unit	1CB	
 3VA9264-0QB00	<b>Front bus connectors extended</b> Included in scope of supply: • 4 single terminals • 3 phase barriers	22 mm	8 mm	✓	--	--	--	--		3VA9154-0QB00		1	1 unit	1CB	
		32 mm	10 mm	--	✓	--	--	--		3VA9254-0QB00		1	1 unit	1CB	
		32 mm	10 mm	--	--	✓	--	--		3VA9264-0QB00		1	1 unit	1CB	
		40 mm	12.5 mm	--	--	--	✓	--		3VA9484-0QB00		1	1 unit	1CB	
 3VA9604-0QB00	<b>Front bus connectors extended</b> Included in scope of supply: • 4 single terminals • 3 phase barriers	50 mm	28 mm	--	--	--	--	✓ <b>NEW</b>		3VA9604-0QB00		1	1 unit	1CB	
 3VA9263-0QC00	<b>Front bus connectors offset</b> Included in scope of supply: • 3 single terminals • 2 phase barriers  Distance between pole centers: 100/160 A = 35 mm 250 A = 45 mm 400/630 A = 70 mm	30 mm	8 mm	✓	--	--	--	--		3VA9153-0QC00		1	1 unit	1CB	
		35 mm	10 mm	--	✓	--	--	--		3VA9253-0QC00		1	1 unit	1CB	
		35 mm	10 mm	--	--	✓	--	--		3VA9263-0QC00		1	1 unit	1CB	
		60 mm	12.5 mm	--	--	--	✓	--		3VA9483-0QC00		1	1 unit	1CB	
<b>Bus connectors offset suitable for all installation types (fixed-mounted, plug-in and draw-out versions)</b>															
 3VA9264-0QC00	<b>Front bus connectors offset</b> Included in scope of supply: • 4 single terminals • 3 phase barriers  Distance between pole centers: 100/160 A = 35 mm 250 A = 45 mm 400/630 A = 70 mm	30 mm	8 mm	✓	--	--	--	--		3VA9154-0QC00		1	1 unit	1CB	
		35 mm	10 mm	--	✓	--	--	--		3VA9254-0QC00		1	1 unit	1CB	
		35 mm	10 mm	--	--	✓	--	--		3VA9264-0QC00		1	1 unit	1CB	
		60 mm	12.5 mm	--	--	--	✓	--		3VA9484-0QC00		1	1 unit	1CB	

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

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

	Version	Max. tap width	Max. tap thickness	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
 3VA9263-0QD00	<b>Bus connectors edgewise</b> Included in scope of supply: • 3 single terminals • 2 phase barriers	20 mm	6 mm	✓	--	--	--	d	<b>3VA9153-0QD00</b>		1	1 unit	1CB
		25 mm	7 mm	--	✓	--	--		<b>3VA9253-0QD00</b>		1	1 unit	1CB
		25 mm	7 mm	--	--	✓	--		<b>3VA9263-0QD00</b>		1	1 unit	1CB
		40 mm	8 mm	--	--	--	✓		<b>3VA9483-0QD00</b>		1	1 unit	1CB
 3VA9264-0QD00	<b>Bus connectors edgewise</b> Included in scope of supply: • 4 single terminals • 3 phase barriers	20 mm	6 mm	✓	--	--	--	d	<b>3VA9154-0QD00</b>		1	1 unit	1CB
		25 mm	7 mm	--	✓	--	--		<b>3VA9254-0QD00</b>		1	1 unit	1CB
		25 mm	7 mm	--	--	✓	--		<b>3VA9264-0QD00</b>		1	1 unit	1CB
		40 mm	8 mm	--	--	--	✓		<b>3VA9484-0QD00</b>		1	1 unit	1CB
 3VA9223-0QG00	<b>Nut keeper kit right-angled<sup>1)</sup></b> Included in scope of supply: • 3 single terminals • 2 phase barriers	22 mm	8 mm	✓	--	--	--	d	<b>3VA9113-0QG00</b>		1	1 unit	1CB
		32 mm	10 mm	--	✓	--	--		<b>3VA9213-0QG00</b>		1	1 unit	1CB
		32 mm	10 mm	--	--	✓	--		<b>3VA9223-0QG00</b>		1	1 unit	1CB
		40 mm	12.5 mm	--	--	--	✓		<b>3VA9403-0QG00</b>		1	1 unit	1CB
 3VA9224-0QG00	<b>Nut keeper kit right-angled<sup>1)</sup></b> Included in scope of supply: • 4 single terminals • 3 phase barriers	22 mm	8 mm	✓	--	--	--	d	<b>3VA9114-0QG00</b>		1	1 unit	1CB
		32 mm	10 mm	--	✓	--	--		<b>3VA9214-0QG00</b>		1	1 unit	1CB
		32 mm	10 mm	--	--	✓	--		<b>3VA9224-0QG00</b>		1	1 unit	1CB
		40 mm	12.5 mm	--	--	--	✓		<b>3VA9404-0QG00</b>		1	1 unit	1CB

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











## Molded Case Circuit Breakers

## 3VA Molded Case Circuit Breakers – Accessories, IEC

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

2


Version	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
<b>Rear connection studs flat suitable for all installation types (fixed-mounted, plug-in and draw-out versions)</b>										
 3VA9203-0QE00 <b>Rear connection stud flat</b> Included in scope of supply: • 2 short connection studs flat • 1 long connection stud flat	✓	--	--	--		3VA9113-0QE00		1	1 unit	1CB
	--	✓	--	--		3VA9213-0QE00		1	1 unit	1CB
	--	--	✓	--		3VA9203-0QE00		1	1 unit	1CB
	--	--	--	✓		3VA9403-0QE00		1	1 unit	1CB
 3VA9204-0QE00 <b>Rear connection stud flat</b> Included in scope of supply: • 2 short connection studs flat • 2 long connection studs flat	✓	--	--	--		3VA9114-0QE00		1	1 unit	1CB
	--	✓	--	--		3VA9214-0QE00		1	1 unit	1CB
	--	--	✓	--		3VA9204-0QE00		1	1 unit	1CB
	--	--	--	✓		3VA9404-0QE00		1	1 unit	1CB
 3VA9201-0QE10 <b>Rear connection stud flat</b> Included in scope of supply: • 1 short connection stud flat	✓	--	--	--		3VA9111-0QE10		1	1 unit	1CB
	--	✓	--	--		3VA9211-0QE10		1	1 unit	1CB
	--	--	✓	--		3VA9201-0QE10		1	1 unit	1CB
	--	--	--	✓		3VA9401-0QE10		1	1 unit	1CB
 3VA9201-0QE20 <b>Rear connection stud flat</b> Included in scope of supply: • 1 long connection stud flat	✓	--	--	--		3VA9111-0QE20		1	1 unit	1CB
	--	✓	--	--		3VA9211-0QE20		1	1 unit	1CB
	--	--	✓	--		3VA9201-0QE20		1	1 unit	1CB
	--	--	--	✓		3VA9401-0QE20		1	1 unit	1CB
<b>Rear connection studs round suitable for all installation types (fixed-mounted, plug-in and draw-out versions)</b>										
 3VA9203-0QF00 <b>Rear connection stud round</b> Included in scope of supply: • 1 long connection stud round • 2 short connection studs	✓	--	--	--		3VA9113-0QF00		1	1 unit	1CB
	--	✓	--	--		3VA9213-0QF00		1	1 unit	1CB
	--	--	✓	--		3VA9203-0QF00		1	1 unit	1CB
	--	--	--	✓		3VA9403-0QF00		1	1 unit	1CB
 3VA9204-0QF00 <b>Rear connection stud round</b> Included in scope of supply: • 2 long connection studs round • 2 short connection studs round	✓	--	--	--		3VA9114-0QF00		1	1 unit	1CB
	--	✓	--	--		3VA9214-0QF00		1	1 unit	1CB
	--	--	✓	--		3VA9204-0QF00		1	1 unit	1CB
	--	--	--	✓		3VA9404-0QF00		1	1 unit	1CB
 3VA9201-0QF10 <b>Rear connection stud round</b> Included in scope of supply: • 1 short connection stud round	✓	--	--	--		3VA9111-0QF10		1	1 unit	1CB
	--	✓	--	--		3VA9211-0QF10		1	1 unit	1CB
	--	--	✓	--		3VA9201-0QF10		1	1 unit	1CB
	--	--	--	✓		3VA9401-0QF10		1	1 unit	1CB
 3VA9111-0QF20 <b>Rear connection stud round</b> Included in scope of supply: • 1 long connection stud round	✓	--	--	--		3VA9111-0QF20		1	1 unit	1CB
	--	✓	--	--		3VA9211-0QF20		1	1 unit	1CB
	--	--	✓	--		3VA9201-0QF20		1	1 unit	1CB
	--	--	--	✓		3VA9401-0QF20		1	1 unit	1CB

## Molded Case Circuit Breakers


### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Connection technology – specially for fixed mounting

2

Version	For molded case circuit breakers/ Article No. stem					SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24	3VA25						
<b>Phase barriers suitable for all installation types (fixed-mounted, plug-in and draw-out versions)</b>											
 <p><b>Phase barriers</b> Included in scope of supply: • 2 phase barriers</p>	✓	--	--	--	--		<b>3VA9152-0WA00</b>		1	1 unit	1CB
	--	✓	--	--	--		<b>3VA9252-0WA00</b>		1	1 unit	1CB
	--	--	✓	--	--		<b>3VA9262-0WA00</b>		1	1 unit	1CB
	--	--	--	✓	--		<b>3VA9482-0WA00</b>		1	1 unit	1CB
	--	--	--	--	✓ <b>NEW</b>		<b>3VA9602-0WA00</b>		1	1 unit	1CB
	--	--	--	--	--						

3VA9262-0WA00

Version	Max. tap width	Max. tap thickness	For molded case circuit breakers/ Article No. stem					SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
			3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24	3VA25						
<b>Bus connectors extended specially for fixed mounting</b>													
 <p><b>Front bus connectors extended</b> Included in scope of supply: • 1 busbar connection piece</p>	32 mm	10 mm	✓	--	--	--		<b>3VA9151-0QB00</b>		1	1 unit	1CB	
			--	--	--	--							







3VA9151-0QB00

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

Connection technology – specially for fixed mounting








2

Version	Minimum for stranded cable	Maximum for stranded cable	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
			3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
<b>Wire connectors specially for fixed mounting</b>												
 <b>Wire connector, large</b> • Connection of Cu/Al cable • Included in scope of supply: - 2 single terminals - 1 terminal cover extended - 1 insulating plate 3VA9112-0JJ12	25 mm <sup>2</sup>	150 mm <sup>2</sup>	✓	--	--	--		<b>3VA9112-0JJ12</b>		1	1 unit	1CB
	50 mm <sup>2</sup>	240 mm <sup>2</sup>	--	✓	--	--		<b>3VA9113-0JJ12</b>		1	1 unit	1CB
 <b>Wire connector, large</b> • Connection of Cu/Al cable • Included in scope of supply: - 3 single terminals - 1 terminal cover extended - 1 insulating plate 3VA9113-0JJ12	25 mm <sup>2</sup>	150 mm <sup>2</sup>	✓	--	--	--		<b>3VA9113-0JJ12</b>		1	1 unit	1CB
	50 mm <sup>2</sup>	240 mm <sup>2</sup>	--	✓	--	--		<b>3VA9213-0JJ13</b>		1	1 unit	1CB
	50 mm <sup>2</sup>	240 mm <sup>2</sup>	--	--	✓	--		<b>3VA9223-0JJ13</b>		1	1 unit	1CB
 <b>Wire connector, large</b> • Connection of Cu/Al cable • Included in scope of supply: - 4 single terminals - 1 terminal cover extended - 1 insulating plate 3VA9114-0JJ12	25 mm <sup>2</sup>	150 mm <sup>2</sup>	✓	--	--	--		<b>3VA9114-0JJ12</b>		1	1 unit	1CB
	50 mm <sup>2</sup>	240 mm <sup>2</sup>	--	✓	--	--		<b>3VA9214-0JJ13</b>		1	1 unit	1CB
	50 mm <sup>2</sup>	240 mm <sup>2</sup>	--	--	✓	--		<b>3VA9224-0JJ13</b>		1	1 unit	1CB
 <b>Wire connector, large, with control wire tap</b> • Connection of Cu/Al cable • Included in scope of supply: - 2 single terminals - 1 terminal cover extended - 1 insulating plate 3VA9112-0JC12	25 mm <sup>2</sup>	150 mm <sup>2</sup>	✓	--	--	--		<b>3VA9112-0JC12</b>		1	1 unit	1CB
	50 mm <sup>2</sup>	240 mm <sup>2</sup>	--	✓	--	--		<b>3VA9113-0JC12</b>		1	1 unit	1CB
 <b>Wire connector, large, with control wire tap</b> • Connection of Cu/Al cable • Included in scope of supply: - 3 single terminals - 1 terminal cover extended - 1 insulating plate 3VA9223-0JC13	50 mm <sup>2</sup>	240 mm <sup>2</sup>	--	--	✓	--		<b>3VA9213-0JC13</b>		1	1 unit	1CB
	50 mm <sup>2</sup>	240 mm <sup>2</sup>	--	--	✓	--		<b>3VA9223-0JC13</b>		1	1 unit	1CB
	50 mm <sup>2</sup>	240 mm <sup>2</sup>	--	--	✓	--		<b>3VA9223-0JC13</b>		1	1 unit	1CB
 <b>Wire connector, large, with control wire tap</b> • Connection of Cu/Al cable • Included in scope of supply: - 4 single terminals - 1 terminal cover extended - 1 insulating plate 3VA9114-0JC12	25 mm <sup>2</sup>	150 mm <sup>2</sup>	✓	--	--	--		<b>3VA9114-0JC12</b>		1	1 unit	1CB
	50 mm <sup>2</sup>	240 mm <sup>2</sup>	--	✓	--	--		<b>3VA9214-0JC13</b>		1	1 unit	1CB
	50 mm <sup>2</sup>	240 mm <sup>2</sup>	--	--	✓	--		<b>3VA9224-0JC13</b>		1	1 unit	1CB

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Connection technology – specially for fixed mounting









	Version	Minimum for stranded cable	Maximum for stranded cable	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?ArticleNo.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG		
				3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24								
 <p><b>Wire connector, 2 cables</b></p> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply:               <ul style="list-style-type: none"> <li>- 3 single terminals</li> <li>- 1 terminal cover extended</li> <li>- 1 insulating plate</li> </ul> </li> </ul>	<p><b>Wire connector, 2 cables</b></p> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply:               <ul style="list-style-type: none"> <li>- 3 single terminals</li> <li>- 1 terminal cover extended</li> <li>- 1 insulating plate</li> </ul> </li> </ul>	2 x 25 mm <sup>2</sup>	2 x 150 mm <sup>2</sup>	--	✓	--	--	<p><b>3VA9213-0JJ22</b></p> <p><b>3VA9223-0JJ22</b></p> <p><b>3VA9403-0JJ23</b></p>		1	1 unit	1CB			
		2 x 25 mm <sup>2</sup>	2 x 150 mm <sup>2</sup>	--	--	✓	--						1	1 unit	1CB
		2 x 70 mm <sup>2</sup>	2 x 300 mm <sup>2</sup>	--	--	--	✓								
3VA9223-0JJ22															
 <p><b>Wire connector, 2 cables</b></p> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply:               <ul style="list-style-type: none"> <li>- 4 single terminals</li> <li>- 1 terminal cover extended</li> <li>- 1 insulating plate</li> </ul> </li> </ul>	<p><b>Wire connector, 2 cables</b></p> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply:               <ul style="list-style-type: none"> <li>- 4 single terminals</li> <li>- 1 terminal cover extended</li> <li>- 1 insulating plate</li> </ul> </li> </ul>	2 x 25 mm <sup>2</sup>	2 x 150 mm <sup>2</sup>	--	✓	--	--	<p><b>3VA9214-0JJ22</b></p> <p><b>3VA9224-0JJ22</b></p> <p><b>3VA9404-0JJ23</b></p>		1	1 unit	1CB			
		2 x 25 mm <sup>2</sup>	2 x 150 mm <sup>2</sup>	--	--	✓	--						1	1 unit	1CB
		2 x 70 mm <sup>2</sup>	2 x 300 mm <sup>2</sup>	--	--	--	✓								
3VA9224-0JJ22															
 <p><b>Wire connector, 2 cables, with control wire tap</b></p> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply:               <ul style="list-style-type: none"> <li>- 3 single terminals</li> <li>- 1 terminal cover extended</li> <li>- 1 insulating plate</li> </ul> </li> </ul>	<p><b>Wire connector, 2 cables, with control wire tap</b></p> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply:               <ul style="list-style-type: none"> <li>- 3 single terminals</li> <li>- 1 terminal cover extended</li> <li>- 1 insulating plate</li> </ul> </li> </ul>	2 x 25 mm <sup>2</sup>	2 x 150 mm <sup>2</sup>	--	✓	--	--	<p><b>3VA9213-0JC22</b></p> <p><b>3VA9223-0JC22</b></p> <p><b>3VA9403-0JC23</b></p>		1	1 unit	1CB			
		2 x 25 mm <sup>2</sup>	2 x 150 mm <sup>2</sup>	--	--	✓	--						1	1 unit	1CB
		2 x 70 mm <sup>2</sup>	2 x 300 mm <sup>2</sup>	--	--	--	✓								
3VA9223-0JC22															
 <p><b>Wire connector, 2 cables, with control wire tap</b></p> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply:               <ul style="list-style-type: none"> <li>- 4 single terminals</li> <li>- 1 terminal cover extended</li> <li>- 1 insulating plate</li> </ul> </li> </ul>	<p><b>Wire connector, 2 cables, with control wire tap</b></p> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply:               <ul style="list-style-type: none"> <li>- 4 single terminals</li> <li>- 1 terminal cover extended</li> <li>- 1 insulating plate</li> </ul> </li> </ul>	2 x 25 mm <sup>2</sup>	2 x 150 mm <sup>2</sup>	--	✓	--	--	<p><b>3VA9214-0JC22</b></p> <p><b>3VA9224-0JC22</b></p> <p><b>3VA9404-0JC23</b></p>		1	1 unit	1CB			
		2 x 25 mm <sup>2</sup>	2 x 150 mm <sup>2</sup>	--	--	✓	--						1	1 unit	1CB
		2 x 70 mm <sup>2</sup>	2 x 300 mm <sup>2</sup>	--	--	--	✓								
3VA9224-0JC22															
 <p><b>Distribution wire connector, 6 cables</b></p> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply:               <ul style="list-style-type: none"> <li>- 2 single terminals</li> <li>- 1 terminal cover extended</li> <li>- 1 insulating plate</li> </ul> </li> </ul>	<p><b>Distribution wire connector, 6 cables</b></p> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply:               <ul style="list-style-type: none"> <li>- 2 single terminals</li> <li>- 1 terminal cover extended</li> <li>- 1 insulating plate</li> </ul> </li> </ul>	6 x 1.5 mm <sup>2</sup>	6 x 35 mm <sup>2</sup>	✓	--	--	--	<b>3VA9112-0JF60</b>		1	1 unit	1CB			
3VA9112-0JF60															
 <p><b>Distribution wire connector, 6 cables</b></p> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply:               <ul style="list-style-type: none"> <li>- 3 single terminals</li> <li>- 1 terminal cover extended</li> <li>- 1 insulating plate</li> </ul> </li> </ul>	<p><b>Distribution wire connector, 6 cables</b></p> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply:               <ul style="list-style-type: none"> <li>- 3 single terminals</li> <li>- 1 terminal cover extended</li> <li>- 1 insulating plate</li> </ul> </li> </ul>	6 x 1.5 mm <sup>2</sup>	6 x 35 mm <sup>2</sup>	✓	--	--	--	<b>3VA9113-0JF60</b>		1	1 unit	1CB			
				--	✓	--	--	<b>3VA9213-0JF60</b>		1	1 unit	1CB			
				--	--	✓	--	<b>3VA9223-0JF60</b>		1	1 unit	1CB			
				--	--	--	✓	<b>3VA9303-0JF60</b>		1	1 unit	1CB			
3VA9223-0JF60															
 <p><b>Distribution wire connector, 6 cables</b></p> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply:               <ul style="list-style-type: none"> <li>- 4 single terminals</li> <li>- 1 terminal cover extended</li> <li>- 1 insulating plate</li> </ul> </li> </ul>	<p><b>Distribution wire connector, 6 cables</b></p> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply:               <ul style="list-style-type: none"> <li>- 4 single terminals</li> <li>- 1 terminal cover extended</li> <li>- 1 insulating plate</li> </ul> </li> </ul>	6 x 1.5 mm <sup>2</sup>	6 x 35 mm <sup>2</sup>	✓	--	--	--	<b>3VA9114-0JF60</b>		1	1 unit	1CB			
				--	✓	--	--	<b>3VA9214-0JF60</b>		1	1 unit	1CB			
				--	--	✓	--	<b>3VA9224-0JF60</b>		1	1 unit	1CB			
				--	--	--	✓	<b>3VA9304-0JF60</b>		1	1 unit	1CB			
3VA9224-0JF60															

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

Connection technology – specially for fixed mounting

2

Version	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
<b>Terminal covers specially for fixed mounting</b>										
 3VA9111-0WD10	<b>Terminal cover for 1-pole breakers</b>	✓	--	--	--		<b>3VA9111-0WD10</b>	1	1 unit	1CB
 3VA9111-0WD20	<b>Terminal cover for 2-pole breakers</b>	✓	--	--	--		<b>3VA9111-0WD20</b>	1	1 unit	1CB
 3VA9221-0WD30	<b>Terminal cover for 3-pole breakers</b>	✓	--	--	--		<b>3VA9111-0WD30</b>	1	1 unit	1CB
		--	✓	--	--		<b>3VA9211-0WD30</b>	1	1 unit	1CB
		--	--	✓	--		<b>3VA9221-0WD30</b>	1	1 unit	1CB
		--	--	--	✓		<b>3VA9481-0WD30</b>	1	1 unit	1CB
 3VA9221-0WD40	<b>Terminal cover for 4-pole breakers</b>	✓	--	--	--		<b>3VA9111-0WD40</b>	1	1 unit	1CB
		--	✓	--	--		<b>3VA9211-0WD40</b>	1	1 unit	1CB
		--	--	✓	--		<b>3VA9221-0WD40</b>	1	1 unit	1CB
		--	--	--	✓		<b>3VA9481-0WD40</b>	1	1 unit	1CB
 3VA9111-0WF20	<b>Terminal cover extended, 2-pole including insulating plate</b>	✓	--	--	--		<b>3VA9111-0WF20</b>	1	1 unit	1CB
 3VA9221-0WF30	<b>Terminal cover extended for 3-pole breakers including insulating plate</b>	✓	--	--	--		<b>3VA9111-0WF30</b>	1	1 unit	1CB
		--	✓	--	--		<b>3VA9211-0WF30</b>	1	1 unit	1CB
		--	--	✓	--		<b>3VA9221-0WF30</b>	1	1 unit	1CB
		--	--	--	✓		<b>3VA9481-0WF30</b>	1	1 unit	1CB
 3VA9221-0WF40	<b>Terminal cover extended for 4-pole breakers including insulating plate</b>	✓	--	--	--		<b>3VA9111-0WF40</b>	1	1 unit	1CB
		--	✓	--	--		<b>3VA9211-0WF40</b>	1	1 unit	1CB
		--	--	✓	--		<b>3VA9221-0WF40</b>	1	1 unit	1CB
		--	--	--	✓		<b>3VA9481-0WF40</b>	1	1 unit	1CB
 3VA9221-0WG30	<b>Terminal cover offset for 3-pole breakers including insulating plate</b>	✓	--	--	--		<b>3VA9111-0WG30</b>	1	1 unit	1CB
		--	✓	--	--		<b>3VA9211-0WG30</b>	1	1 unit	1CB
		--	--	✓	--		<b>3VA9221-0WG30</b>	1	1 unit	1CB
		--	--	--	✓		<b>3VA9401-0WG30</b>	1	1 unit	1CB

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Connection technology – specially for fixed mounting




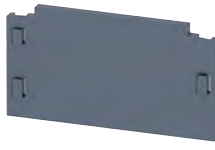
2

Version	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
 <p><b>Terminal cover offset for 4-pole breakers</b> including insulating plate</p>	✓	--	--	--		<b>3VA9111-0WG40</b>	1	1 unit	1CB	
	--	✓	--	--		<b>3VA9211-0WG40</b>	1	1 unit	1CB	
	--	--	✓	--		<b>3VA9221-0WG40</b>	1	1 unit	1CB	
	--	--	--	✓		<b>3VA9401-0WG40</b>	1	1 unit	1CB	
3VA9221-0WG40	<b>Insulating plates specially for fixed mounting</b>									
 <p><b>Insulating plate, 2-pole</b></p>	✓	--	--	--		<b>3VA9111-0WJ20</b>	1	1 unit	1CB	
	✓	--	--	--		<b>3VA9111-0WJ30</b>	1	1 unit	1CB	
	--	✓	--	--		<b>3VA9211-0WJ30</b>	1	1 unit	1CB	
	--	--	✓	--		<b>3VA9221-0WJ30</b>	1	1 unit	1CB	
3VA9111-0WJ20	 <p><b>Insulating plate, 3-pole</b></p>	✓	--	--	--		<b>3VA9111-0WJ40</b>	1	1 unit	1CB
--		✓	--	--		<b>3VA9211-0WJ40</b>	1	1 unit	1CB	
--		--	✓	--		<b>3VA9221-0WJ40</b>	1	1 unit	1CB	
--		--	--	✓		<b>3VA9481-0WJ40</b>	1	1 unit	1CB	
3VA9221-0WJ30	 <p><b>Insulating plate, 4-pole</b></p>	✓	--	--	--		<b>3VA9111-0WK30</b>	1	1 unit	1CB
--		✓	--	--		<b>3VA9211-0WK30</b>	1	1 unit	1CB	
--		--	✓	--		<b>3VA9221-0WK30</b>	1	1 unit	1CB	
--		--	--	✓		<b>3VA9481-0WK30</b>	1	1 unit	1CB	
3VA9221-0WJ40	 <p><b>Insulating plate offset, 3-pole</b></p>	✓	--	--	--		<b>3VA9111-0WK40</b>	1	1 unit	1CB
--		✓	--	--		<b>3VA9211-0WK40</b>	1	1 unit	1CB	
--		--	✓	--		<b>3VA9221-0WK40</b>	1	1 unit	1CB	
--		--	--	✓		<b>3VA9481-0WK40</b>	1	1 unit	1CB	
3VA9221-0WK30	 <p><b>Insulating plate offset, 4-pole</b></p>	✓	--	--	--		<b>3VA9111-0WK40</b>	1	1 unit	1CB
--		✓	--	--		<b>3VA9211-0WK40</b>	1	1 unit	1CB	
--		--	✓	--		<b>3VA9221-0WK40</b>	1	1 unit	1CB	
--		--	--	✓		<b>3VA9481-0WK40</b>	1	1 unit	1CB	
3VA9221-0WK40										

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Connection technology – specially for fixed mounting

Version	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
<b>Control wire taps specially for fixed mounting</b>										
 3VA9200-0WB00	<b>Control wire tap for box terminal</b>					<b>3VA9110-0WB00</b>		1	10 units	1CB
						<b>3VA9200-0WB00</b>		1	10 units	1CB
						<b>3VA9480-0WB00</b>		1	10 units	1CB
 3VA9200-0WC00	<b>Control wire tap for busbar</b>					<b>3VA9110-0WC00</b>		1	10 units	1CB
						<b>3VA9200-0WC00</b>		1	10 units	1CB
						<b>3VA9480-0WC00</b>		1	10 units	1CB
<b>DC insulating plates specially for fixed mounting</b>										
 3VA9113-0SG10	<b>DC insulating plate for 3VA1</b>									
	Versions									
	• For fixed-mounted molded case circuit breakers									
						<b>3VA9113-0SG10</b>		1	10 units	1CB
						<b>3VA9114-0SG10</b>		1	10 units	1CB
<b>Side plate specially for fixed mounting</b>										
 3VA9112-0SG20	<b>Side plate for 3VA1</b>									
	Versions									
	• For fixed-mounted molded case circuit breakers									
						<b>3VA9112-0SG20</b>		1	5 units	1CB





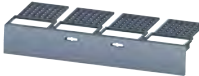





## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

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

2

Version	For molded case circuit breakers/Article No. stem	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA11 3VA12 3VA20 3VA21 3VA22	3VA23 3VA24	d				
<b>Terminal covers specially for plug-in and draw-out units</b>							
<b>Terminal cover for plug-in/draw-out unit (spare part)</b>							
<ul style="list-style-type: none"> <li>To provide circuit breaker touch protection</li> <li>For mounting on the molded case circuit breaker</li> </ul>							
<b>Versions</b>							
	• 3-pole	✓	--	--	--	<b>3VA9113-0KB01</b>	1 1 unit 1CB
	• Included in scope of supply: Cover for infeed and outgoing side	--	✓	--	--	<b>3VA9213-0KB01</b>	1 1 unit 1CB
		--	--	✓	--	<b>3VA9123-0KB01</b>	1 1 unit 1CB
		--	--	--	✓	<b>3VA9353-0KB01</b>	1 1 unit 1CB
 3VA9123-0KB01	• 4-pole	✓	--	--	--	<b>3VA9114-0KB01</b>	1 1 unit 1CB
	• Included in scope of supply: Cover for infeed and outgoing side	--	✓	--	--	<b>3VA9214-0KB01</b>	1 1 unit 1CB
		--	--	✓	--	<b>3VA9124-0KB01</b>	1 1 unit 1CB
		--	--	--	✓	<b>3VA9354-0KB01</b>	1 1 unit 1CB
 3VA9124-0KB01	<b>Terminal cover for plug-in or draw-out socket</b>						
	<ul style="list-style-type: none"> <li>For touch protection in the termination area of the plug-in or draw-out socket</li> <li>For mounting on the plug-in or draw-out socket</li> </ul>						
	<b>Versions</b>						
	 3VA9153-0KB03	• 3-pole	✓	--	--	--	<b>3VA9153-0KB03</b>
		--	✓	--	--	<b>3VA9253-0KB03</b>	1 1 unit 1CB
		--	--	✓	--	<b>3VA9163-0KB03</b>	1 1 unit 1CB
		--	--	--	✓	<b>3VA9353-0KB03</b>	1 1 unit 1CB
 3VA9154-0KB03	• 4-pole	✓	--	--	--	<b>3VA9154-0KB03</b>	1 1 unit 1CB
		--	✓	--	--	<b>3VA9254-0KB03</b>	1 1 unit 1CB
		--	--	✓	--	<b>3VA9164-0KB03</b>	1 1 unit 1CB
		--	--	--	✓	<b>3VA9354-0KB03</b>	1 1 unit 1CB
 3VA9153-0KB04	<b>Terminal cover, extended, for plug-in or draw-out socket</b>						
	<ul style="list-style-type: none"> <li>For touch protection in the termination area of the plug-in or draw-out socket</li> <li>For mounting on the plug-in or draw-out socket</li> <li>1 insulating plate</li> </ul>						
	<b>Versions</b>						
	 3VA9154-0KB04	• 3-pole	✓	--	--	--	<b>3VA9153-0KB04</b>
		--	✓	--	--	<b>3VA9253-0KB04</b>	1 1 unit 1CB
		--	--	✓	--	<b>3VA9163-0KB04</b>	1 1 unit 1CB
		--	--	--	✓	<b>3VA9353-0KB04</b>	1 1 unit 1CB
 3VA9154-0KB04	• 4-pole	✓	--	--	--	<b>3VA9154-0KB04</b>	1 1 unit 1CB
		--	✓	--	--	<b>3VA9254-0KB04</b>	1 1 unit 1CB
		--	--	✓	--	<b>3VA9164-0KB04</b>	1 1 unit 1CB
		--	--	--	✓	<b>3VA9354-0KB04</b>	1 1 unit 1CB



## Molded Case Circuit Breakers

## 3VA Molded Case Circuit Breakers – Accessories, IEC

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

2

Version	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
<b>Terminal cover, offset, for plug-in or draw-out socket</b>					d					
<ul style="list-style-type: none"> <li>For touch protection in the termination area of the plug-in or draw-out socket</li> <li>For mounting on the plug-in or draw-out socket</li> <li>1 insulating plate</li> </ul>										
<b>Versions</b>										
• 3-pole	✓	--	--	--		<b>3VA9153-0KB05</b>		1	1 unit	1CB
	--	✓	--	--		<b>3VA9253-0KB05</b>		1	1 unit	1CB
	--	--	✓	--		<b>3VA9163-0KB05</b>		1	1 unit	1CB
	--	--	--	✓		<b>3VA9353-0KB05</b>		1	1 unit	1CB
• 4-pole	✓	--	--	--		<b>3VA9154-0KB05</b>		1	1 unit	1CB
	--	✓	--	--		<b>3VA9254-0KB05</b>		1	1 unit	1CB
	--	--	✓	--		<b>3VA9164-0KB05</b>		1	1 unit	1CB
	--	--	--	✓		<b>3VA9354-0KB05</b>		1	1 unit	1CB



3VA9153-0KB05



3VA9154-0KB05

Version	Minimum for stranded cable	Maximum for stranded cable	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
			3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
<b>Wire connectors specially for plug-in and draw-out units</b>												
<p><b>Wire connector, large, with control wire tap</b> Included in scope of supply:</p> <ul style="list-style-type: none"> <li>3 single terminals</li> <li>1 terminal cover extended</li> <li>1 insulating plate</li> </ul>	25 mm <sup>2</sup>	150 mm <sup>2</sup>	✓	--	--	--		<b>3VA9153-0JC12</b>		1	1 unit	1CB
	50 mm <sup>2</sup>	240 mm <sup>2</sup>	--	✓	--	--		<b>3VA9253-0JC13</b>		1	1 unit	1CB
	50 mm <sup>2</sup>	240 mm <sup>2</sup>	--	--	✓	--		<b>3VA9263-0JC13</b>		1	1 unit	1CB
<p><b>Wire connector, large, with control wire tap</b> Included in scope of supply:</p> <ul style="list-style-type: none"> <li>4 single terminals</li> <li>1 terminal cover extended</li> <li>1 insulating plate</li> </ul>	25 mm <sup>2</sup>	150 mm <sup>2</sup>	✓	--	--	--		<b>3VA9154-0JC12</b>		1	1 unit	1CB
	50 mm <sup>2</sup>	240 mm <sup>2</sup>	--	✓	--	--		<b>3VA9254-0JC13</b>		1	1 unit	1CB
	50 mm <sup>2</sup>	240 mm <sup>2</sup>	--	--	✓	--		<b>3VA9264-0JC13</b>		1	1 unit	1CB







3VA9153-0JC12

3VA9154-0JC12

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

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

Version	Minimum for stranded cable	Maximum for stranded cable	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
			3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
 <p><b>Wire connector, 2 cables, with control wire tap</b> Included in scope of supply: • 3 single terminals • 1 terminal cover extended • 1 insulating plate</p>	2 x 25 mm <sup>2</sup>	2 x 150 mm <sup>2</sup>	--	✓	--	--	<b>3VA9253-0JC22</b>		1	1 unit	1CB	
	2 x 25 mm <sup>2</sup>	2 x 150 mm <sup>2</sup>	--	--	✓	--	<b>3VA9263-0JC22</b>		1	1 unit	1CB	
	2 x 70 mm <sup>2</sup>	2 x 300 mm <sup>2</sup>	--	--	--	✓	<b>3VA9483-0JC23</b>		1	1 unit	1CB	
 <p><b>Wire connector, 2 cables, with control wire tap</b> Included in scope of supply: • 4 single terminals • 1 terminal cover extended • 1 insulating plate</p>	2 x 25 mm <sup>2</sup>	2 x 150 mm <sup>2</sup>	--	✓	--	--	<b>3VA9254-0JC22</b>		1	1 unit	1CB	
	2 x 25 mm <sup>2</sup>	2 x 150 mm <sup>2</sup>	--	--	✓	--	<b>3VA9264-0JC22</b>		1	1 unit	1CB	
	2 x 70 mm <sup>2</sup>	2 x 300 mm <sup>2</sup>	--	--	--	✓	<b>3VA9484-0JC23</b>		1	1 unit	1CB	
 <p><b>Distribution wire connector, 6 cables</b> Included in scope of supply: • 3 single terminals • 1 terminal cover extended • 1 insulating plate</p>	6 x 1.5 mm <sup>2</sup>	6 x 35 mm <sup>2</sup>	✓	--	--	--	<b>3VA9153-0JF60</b>		1	1 unit	1CB	
	6 x 1.5 mm <sup>2</sup>	6 x 35 mm <sup>2</sup>	--	✓	--	--	<b>3VA9253-0JF60</b>		1	1 unit	1CB	
	6 x 1.5 mm <sup>2</sup>	6 x 35 mm <sup>2</sup>	--	--	✓	--	<b>3VA9263-0JF60</b>		1	1 unit	1CB	
	6 x 1.5 mm <sup>2</sup>	6 x 35 mm <sup>2</sup>	--	--	--	✓	<b>3VA9383-0JF60</b>		1	1 unit	1CB	
 <p><b>Distribution wire connector, 6 cables</b> Included in scope of supply: • 4 single terminals • 1 terminal cover extended • 1 insulating plate</p>	6 x 1.5 mm <sup>2</sup>	6 x 35 mm <sup>2</sup>	✓	--	--	--	<b>3VA9154-0JF60</b>		1	1 unit	1CB	
	6 x 1.5 mm <sup>2</sup>	6 x 35 mm <sup>2</sup>	--	✓	--	--	<b>3VA9254-0JF60</b>		1	1 unit	1CB	
	6 x 1.5 mm <sup>2</sup>	6 x 35 mm <sup>2</sup>	--	--	✓	--	<b>3VA9264-0JF60</b>		1	1 unit	1CB	
	6 x 1.5 mm <sup>2</sup>	6 x 35 mm <sup>2</sup>	--	--	--	✓	<b>3VA9384-0JF60</b>		1	1 unit	1CB	
<b>Control wire taps specially for plug-in and draw-out units</b>												
 <p><b>Control wire tap for box terminal</b></p>			✓	--	--	--	<b>3VA9150-0WB00</b>		1	10 units	1CB	
			--	✓	✓	--	<b>3VA9280-0WB00</b>		1	10 units	1CB	
			--	--	--	✓	<b>3VA9480-0WB00</b>		1	10 units	1CB	
 <p><b>Control wire tap for busbar</b></p>			✓	--	--	--	<b>3VA9150-0WC00</b>		1	10 units	1CB	
			--	✓	✓	--	<b>3VA9280-0WC00</b>		1	10 units	1CB	
			--	--	--	✓	<b>3VA9480-0WC00</b>		1	10 units	1CB	

**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.

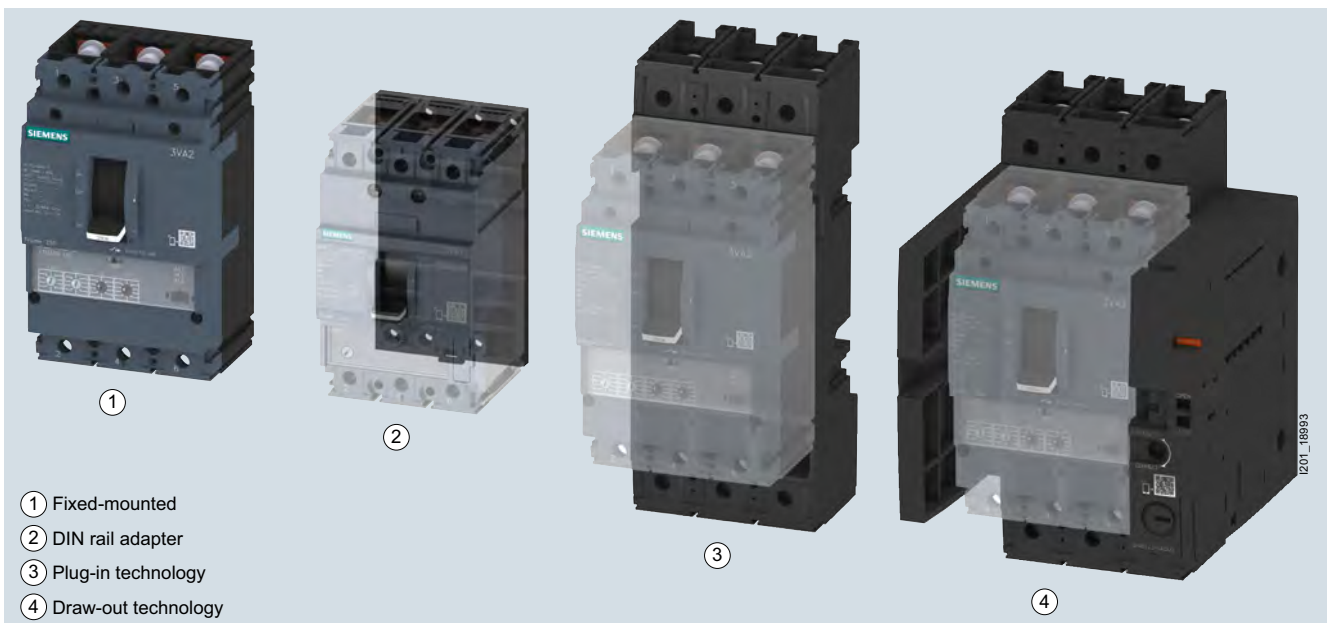
The main differences between plug-in units and draw-out units are convenience of operation and the potential for functional expansion.

**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.

Installation variants

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

**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

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Plug-in and draw-out technology

#### Selection and ordering data





Version	For molded case circuit breakers/ Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
<b>Plug-in socket</b>										
<b>Plug-in unit, complete kit</b> Comprising: • Plug-in socket • Conversion kit • Mounting screw kit										
Versions										
 3VA9123-0KP00	• 3-pole									
	✓	--	--	--		<b>3VA9113-0KP00</b>	1	1 unit	1CB	
	--	✓	--	--		<b>3VA9213-0KP00</b>	1	1 unit	1CB	
	--	--	✓	--		<b>3VA9123-0KP00</b>	1	1 unit	1CB	
	--	--	--	✓		<b>3VA9323-0KP00</b>	1	1 unit	1CB	
 3VA9124-0KP00	• 4-pole									
	✓	--	--	--		<b>3VA9114-0KP00</b>	1	1 unit	1CB	
	--	✓	--	--		<b>3VA9214-0KP00</b>	1	1 unit	1CB	
	--	--	✓	--		<b>3VA9124-0KP00</b>	1	1 unit	1CB	
	--	--	--	✓		<b>3VA9324-0KP00</b>	1	1 unit	1CB	
<b>Plug-in unit, conversion kit</b> Comprising: • Screw-fastened terminal covers for molded case circuit breakers • Plug-in contacts • Cable cages • Autotrip plunger										
Versions										
 3VA9123-0KP10	• 3-pole									
	✓	--	--	--		<b>3VA9113-0KP10</b>	1	1 unit	1CB	
	--	✓	--	--		<b>3VA9213-0KP10</b>	1	1 unit	1CB	
	--	--	✓	--		<b>3VA9123-0KP10</b>	1	1 unit	1CB	
	--	--	--	✓		<b>3VA9323-0KP10</b>	1	1 unit	1CB	
 3VA9124-0KP10	• 4-pole									
	✓	--	--	--		<b>3VA9114-0KP10</b>	1	1 unit	1CB	
	--	✓	--	--		<b>3VA9214-0KP10</b>	1	1 unit	1CB	
	--	--	✓	--		<b>3VA9124-0KP10</b>	1	1 unit	1CB	
	--	--	--	✓		<b>3VA9324-0KP10</b>	1	1 unit	1CB	

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Plug-in and draw-out technology

2

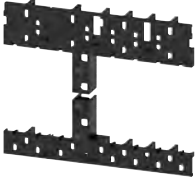

Version	For molded case circuit breakers/ Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
<b>Draw-out units</b>										
<b>Draw-out unit, complete kit</b>										
Comprising:										
<ul style="list-style-type: none"> <li>• Draw-out socket</li> <li>• Conversion kit</li> <li>• Mounting screw kit</li> </ul>										
<b>Versions</b>										
 3VA9123-0KD00	• 3-pole	--	✓	--	--	<b>3VA9213-0KD00</b>		1	1 unit	1CB
		--	--	✓	--	<b>3VA9123-0KD00</b>		1	1 unit	1CB
		--	--	--	✓	<b>3VA9323-0KD00</b>		1	1 unit	1CB
 3VA9124-0KD00	• 4-pole	--	✓	--	--	<b>3VA9214-0KD00</b>		1	1 unit	1CB
		--	--	✓	--	<b>3VA9124-0KD00</b>		1	1 unit	1CB
		--	--	--	✓	<b>3VA9324-0KD00</b>		1	1 unit	1CB
<b>Note</b>										
The crank handle for the draw-out unit must be ordered separately.										
<b>Draw-out unit, conversion kit</b>										
Conversion kit comprising:										
<ul style="list-style-type: none"> <li>• Screw-fastened terminal covers for molded case circuit breakers</li> <li>• Side walls</li> <li>• Plug-in contacts</li> <li>• Cable cages</li> <li>• Autotrip plungers</li> </ul>										
<b>Versions</b>										
 3VA9123-0KD10	• 3-pole	--	✓	--	--	<b>3VA9213-0KD10</b>		1	1 unit	1CB
		--	--	✓	--	<b>3VA9123-0KD10</b>		1	1 unit	1CB
		--	--	--	✓	<b>3VA9323-0KD10</b>		1	1 unit	1CB
 3VA9124-0KD10	• 4-pole	--	✓	--	--	<b>3VA9214-0KD10</b>		1	1 unit	1CB
		--	--	✓	--	<b>3VA9124-0KD10</b>		1	1 unit	1CB
		--	--	--	✓	<b>3VA9324-0KD10</b>		1	1 unit	1CB


## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Plug-in and draw-out technology

2

Version	For molded case circuit breakers/ Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
<b>Cable cage</b>										
 <p><b>Cable cage for plug-in/draw-out unit 3/4-pole (spare part)</b> Cable duct for routing of the required cables from the internal accessories on the back of the circuit breaker</p> <p>3VA9167-0KB02</p>	✓	--	--	--	d	<b>3VA9157-0KB02</b>		1	1 unit	1CB
	--	✓	--	--		<b>3VA9257-0KB02</b>		1	1 unit	1CB
	--	--	✓	--		<b>3VA9167-0KB02</b>		1	1 unit	1CB
	--	--	--	✓		<b>3VA9367-0KB02</b>		1	1 unit	1CB
<b>Door feedthrough</b>										
 <p><b>Door feedthrough</b></p> <p>3VA9167-0KT00</p>	--	✓	--	--		<b>3VA9257-0KT00</b>		1	1 unit	1CB
	--	--	✓	--		<b>3VA9167-0KT00</b>		1	1 unit	1CB
	--	--	--	✓		<b>3VA9367-0KT00</b>		1	1 unit	1CB








Version	For molded case circuit breakers/ Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
<b>Spare part: autotrip plunger <span style="color: orange;">NEW</span></b>										
 <p><b>Autotrip plunger</b></p> <ul style="list-style-type: none"> <li>• Accessories for plug-in unit</li> <li>• Accessories for draw-out unit</li> </ul> <p>3VA9457-0KP81</p>	✓	--	--	--	d	<b>3VA9157-0KP81</b>		1	1 unit	1CB
	--	✓	--	--		<b>3VA9257-0KP81</b>		1	1 unit	1CB
	--	--	✓	--		<b>3VA9267-0KP81</b>		1	1 unit	1CB
	--	--	--	✓		<b>3VA9457-0KP81</b>		1	1 unit	1CB
	--	✓	--	--		<b>3VA9257-0KD81</b>		1	1 unit	1CB
	--	--	✓	--		<b>3VA9267-0KD81</b>		1	1 unit	1CB
	--	--	--	✓		<b>3VA9457-0KD81</b>		1	1 unit	1CB

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

Plug-in and draw-out technology

2

Version	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Other accessories</b>						
 3VA9987-0KC00		<b>Communication link for draw-out unit</b> Comprising: <ul style="list-style-type: none"> <li>• Cable kit with 3 special position signaling switches</li> <li>• Connecting cable 3VA9987-0KC10</li> </ul>	<b>3VA9987-0KC00</b>		1	1 unit 1CB
 3VA9987-0KB00		<b>Position signaling switches</b> <ul style="list-style-type: none"> <li>• For draw-out unit</li> <li>• For plug-in unit</li> </ul>	<b>3VA9987-0KB00</b>		1	1 unit 1CB
 3VA9987-0KC10		<b>Spare part: connecting cable</b> To connect the position signaling switches for communication with the COM060	<b>3VA9987-0KC10</b>		1	1 unit 1CB
 3VA9987-0KD81		<b>Crank handle for draw-out unit</b> Insulated, incl. crank holder	<b>3VA9987-0KD81</b>		1	1 unit 1CB
 3VA9987-0KD80		<b>Auxiliary circuit connector</b> Versions				
		<ul style="list-style-type: none"> <li>• For all draw-out units</li> <li>• For all plug-in units</li> </ul>	<b>3VA9987-0KD80</b>		1	1 unit 1CB
		Note Each auxiliary circuit connector is designed for 4 cables.	<b>3VA9987-0KP80</b>		1	1 unit 1CB
<b>Cylinder lock (type Ronis)</b>						
 3VA9980-0VL10		<ul style="list-style-type: none"> <li>• Includes a lock with 2 keys</li> <li>• For locking</li> <li>• For installation in all rotary operators</li> <li>• For mounting in the adapter kit for the accessories compartment</li> </ul>				
		Key 1	<b>3VA9980-0VL10</b>		1	1 unit 1CB
		Key 2	<b>3VA9980-0VL20</b>		1	1 unit 1CB
		Key 3	<b>3VA9980-0VL30</b>		1	1 unit 1CB
		Key 4	<b>3VA9980-0VL40</b>		1	1 unit 1CB
 3VA9980-0LF40		<b>Cylinder lock adapter for draw-out unit</b> <ul style="list-style-type: none"> <li>• For fitting a cylinder lock in the right-hand side wall of the draw-out unit</li> <li>• To prevent unauthorized withdrawal or insertion of the circuit breaker into the draw-out unit</li> <li>• Circuit breaker can be locked in the CONNECT, TEST and DISCONNECT positions</li> </ul>	<b>3VA9980-0LF40</b>		1	1 unit 1CB



## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – 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 up to the largest circuit breaker size. All residual current devices detect both purely sinusoidal AC residual currents as well as pulsating DC residual currents (type A), and 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 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

On the residual current devices of the 5-series (RCD5..), tripping can be delayed by up to three seconds 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 and RCD520

The RCD320 or RCD520 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

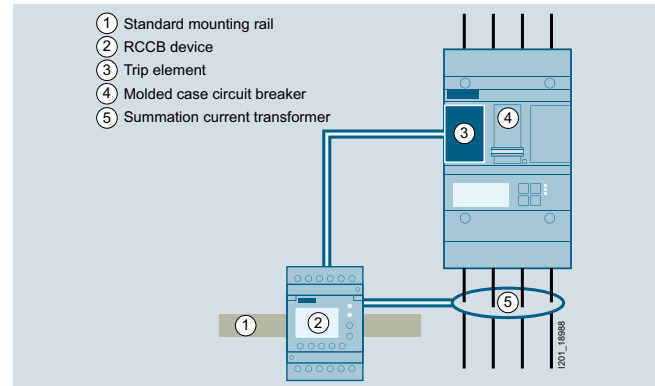
"Advanced" residual current devices can detect fault type A currents up to 10 A and type AC up to 30 A. Status message can be forwarded via the large number of auxiliary contacts on the unit or via the communication connection. LEDs for signaling the "ready" state of the residual current device, the 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, an external solution is also available. The modular solution consists of a residual current protection device, a separate summation current transformer and a trip element.

If the trip element is omitted, the combination of residual current device and summation current transformer works purely as a display unit.

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



Modular residual current device

##### 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

##### 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

##### Modular residual current device

- Modular design allows mounting on different breaker designs (e.g. 1, 2, 3 and 4-pole breakers)
- Reuse in the event of a change of application ensures cost savings
- Time savings thanks to simple upgrading of the residual current functionality in an existing plant
- Especially suitable for use where installation space is restricted









## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Residual current devices

#### Selection and ordering data



Version	For molded case circuit breakers/ Article No. stem		SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA11	3VA12						
<b>Residual current devices (RCD) for 3VA1</b>								
<p><b>Type A</b> (pulse current sensitive)</p> <ul style="list-style-type: none"> <li>Mounted on the side (left)</li> <li>Trip element (RCR) included in the scope of delivery</li> <li>Can only be mounted on molded case circuit breakers and switch disconnectors with box terminal</li> <li><math>U_e = 127 - 480 \text{ V AC}, 50/60 \text{ Hz}</math></li> </ul> <p>Note</p> <p>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.</p>								
			✓	---	<b>3VA9114-0RS10</b>	1	1 unit	1CB
3VA9114-0RS10	<p><b>RCD310</b></p> <ul style="list-style-type: none"> <li>4-pole</li> <li>Rated residual response current, adjustable: <math>I_{\Delta n} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 \text{ A}</math>; default: 30 mA</li> <li>Instantaneous (INS)</li> </ul>							
			✓	---	<b>3VA9113-0RS20</b>	1	1 unit	1CB
3VA9113-0RS20	<p><b>RCD510</b></p> <ul style="list-style-type: none"> <li>Rated residual response current, adjustable: <math>I_{\Delta n} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 \text{ A}</math>; default: 30 mA</li> <li>Delay time, adjustable: <math>\Delta t = \text{Instantaneous (INS)} - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3 \text{ s}</math>; default: Instantaneous (INS)</li> </ul> <p>Versions</p>							
	3-pole		✓	---	<b>3VA9113-0RS20</b>	1	1 unit	1CB
		4-pole	---	✓	<b>3VA9213-0RS20</b>	1	1 unit	1CB
			✓	---	<b>3VA9114-0RS20</b>	1	1 unit	1CB
			---	✓	<b>3VA9214-0RS20</b>	1	1 unit	1CB
			✓	---	<b>3VA9114-0RS20</b>	1	1 unit	1CB
3VA9114-0RS20	<p><b>Type A</b> (pulse current sensitive)</p> <ul style="list-style-type: none"> <li>Mounted below (under trip unit)</li> <li>Can be mounted on molded case circuit breakers</li> <li><math>U_e = 127 - 480 \text{ V AC}, 50/60 \text{ Hz}</math></li> </ul>							
			✓	---	<b>3VA9114-0RL10</b>	1	1 unit	1CB
3VA9114-0RL10	<p><b>RCD320</b></p> <ul style="list-style-type: none"> <li>4-pole</li> <li>Rated residual response current, adjustable: <math>I_{\Delta n} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 \text{ A}</math>; default: 30 mA</li> <li>Instantaneous (INS)</li> </ul>							
			✓	---	<b>3VA9113-0RL20</b>	1	1 unit	1CB
3VA9113-0RL20	<p><b>RCD520</b></p> <ul style="list-style-type: none"> <li>Rated residual response current, adjustable: <math>I_{\Delta n} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 \text{ A}</math>; default: 30 mA</li> <li>Delay time, adjustable: <math>\Delta t = \text{Instantaneous (INS)} - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3 \text{ s}</math>; default: Instantaneous (INS)</li> </ul> <p>Versions</p>							
	3-pole		✓	---	<b>3VA9113-0RL20</b>	1	1 unit	1CB
		4-pole	---	✓	<b>3VA9213-0RL20</b>	1	1 unit	1CB
			✓	---	<b>3VA9114-0RL20</b>	1	1 unit	1CB
			---	✓	<b>3VA9214-0RL20</b>	1	1 unit	1CB
			✓	---	<b>3VA9114-0RL20</b>	1	1 unit	1CB
3VA9114-0RL20								


## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Residual current devices

2

Version	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA20 3VA21	3VA22	3VA23	3VA24						
<b>Residual current devices (RCD) for 3VA2</b>										
<p><b>Type A</b> (pulse current sensitive)</p> <ul style="list-style-type: none"> <li>Mounted below (under trip unit)</li> <li>With energy infeed from below, the required auxiliary switch (AUX) must be ordered separately.</li> <li><math>U_e = 127 - 690 \text{ V AC}, 50/60 \text{ Hz}</math></li> </ul> <p><b>RCD820</b></p> <ul style="list-style-type: none"> <li>Rated residual response current, adjustable: <math>I_{\Delta n} = 0.03 - 0.05 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 - 10 - 30 \text{ A}</math>; default: 30 mA</li> <li>Delay time, adjustable: <math>\Delta t = 0 - 0.06 - 0.15 - 0.3 - 0.5 - 1 - 2 - 3 - 5 - 10 \text{ s}</math>; default: Instantaneous (INS)</li> <li>Note: 30 A setting range only for type AC applications</li> </ul> <p>Versions</p>										
 3VA9123-0RL30	3-pole	✓	--	--	--	3VA9123-0RL30		1	1 unit	1CB
		--	✓	--	--		3VA9223-0RL30		1	1 unit
 3VA9124-0RL30		--	--	✓	--	3VA9323-0RL30		1	1 unit	1CB
		--	--	--	✓	3VA9423-0RL30		1	1 unit	1CB
	4-pole	✓	--	--	--	3VA9124-0RL30		1	1 unit	1CB
		--	✓	--	--	3VA9224-0RL30		1	1 unit	1CB
		--	--	✓	--	3VA9324-0RL30		1	1 unit	1CB
		--	--	--	✓	3VA9424-0RL30		1	1 unit	1CB

Version	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
<b>Modular residual current device MRCD</b>										
 <p>For more information, see chapter "Monitoring Devices".</p>										

**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 an innovative, 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)

GSDML or GSD files are also available for PROFINET and PROFIBUS for integration into the engineering system, e.g. STEP 7.

**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 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 software, it is possible to read out or modify the setting parameters of the molded case circuit breaker and monitor the measured values.

**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

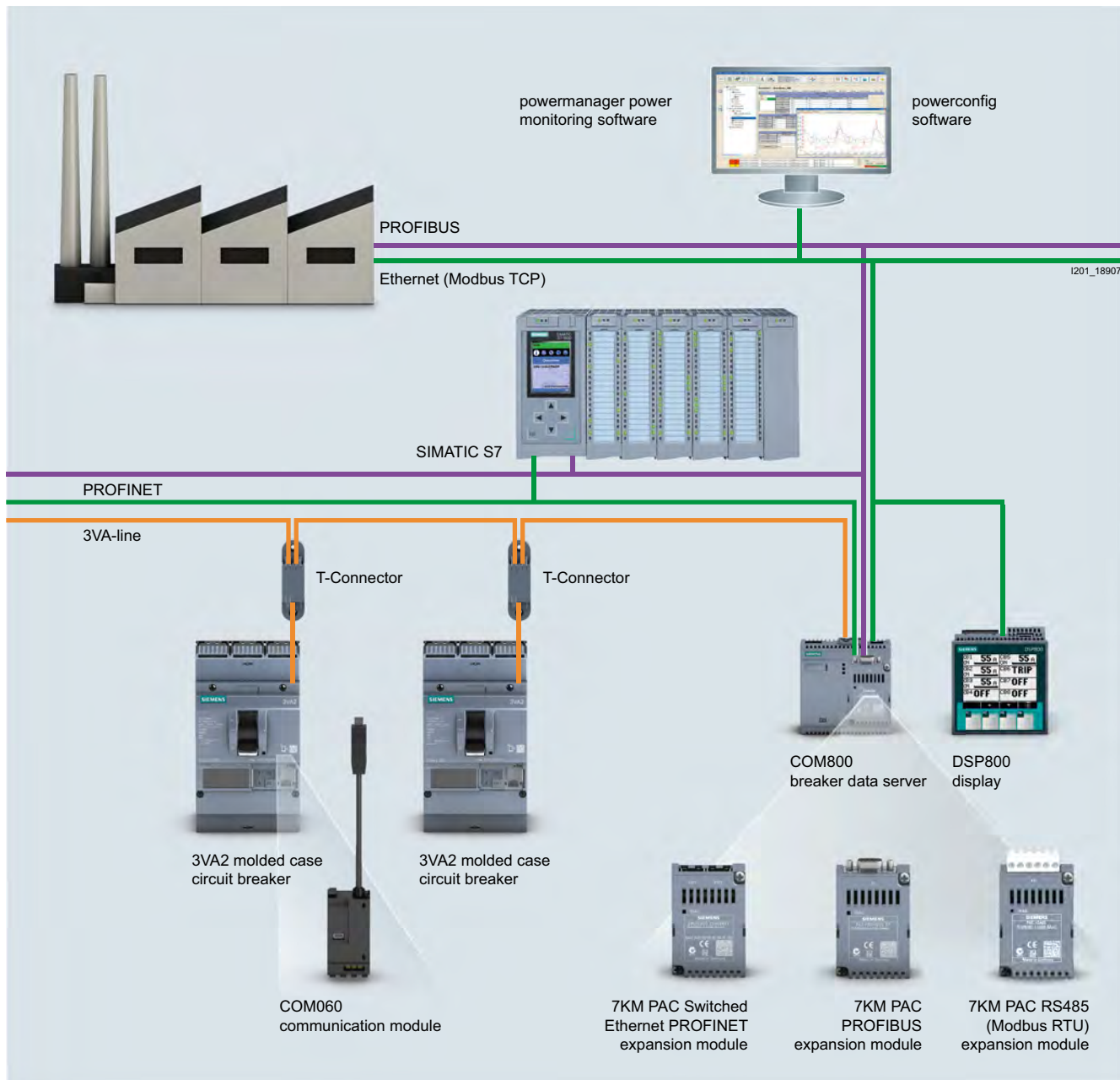
# Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers – Accessories, IEC

## Communication and testing/commissioning devices

### Design

2



## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Communication and testing/commissioning devices

#### Overview of the metering functions

Metering function <sup>1)</sup>	ETUs of the		Display		Communication COM800/COM100		
	5-series	8-series	Display in ETU	DSP800			
<b>Current</b>							
Phase and neutral conductor currents	$I_1, I_2, I_3, I_N$	A	✓	✓	👁️	👁️	👁️
Residual current to ground	$I_g$	A	✓	✓	👁️	👁️	👁️
Phase with highest load		A	✓	✓	👁️	👁️	👁️
Mean value over the three phase currents	$I_{LAVG} = (I_1 + I_2 + I_3) / 3$	A	--	✓	--	👁️	👁️
Asymmetry of the phase currents	$I_{nba}$	%	--	✓	--	👁️	👁️
THD of the 3 phases	$THDI_1, THDI_2, THDI_3$	%	--	✓	--	👁️	👁️
<b>Voltage</b>							
Phase voltages incl. mean value	$U_{12}, U_{23}, U_{31}, U_{phavg}$	V	--	✓	👁️	👁️	👁️
Voltages to N conductor incl. mean value	$U_{1N}, U_{2N}, U_{3N}, U_{Navg}$	V	--	✓	--	👁️	👁️
Voltage unbalance		%	--	✓	--	👁️	👁️
THD phase/phase and phase/N	$THDI_1, THDI_2, THDI_3$	%	--	✓	--	👁️	👁️
<b>Power</b>							
Active power, total and per phase	$P_1, P_2, P_3, P_{tot}$	kW	--	✓	👁️ ( $P_{tot}$ )	👁️	👁️
Apparent power, total and per phase	$S_1, S_2, S_3, S_{tot}$	kVA	--	✓	--	👁️	👁️
Reactive power, total and per phase	$Q_1, Q_2, Q_3, Q_{tot}$	kVAR	--	✓	👁️	👁️	👁️
Power factor of the fundamental	$PF_1, PF_2, PF_3, PF_{avg}$		--	✓	👁️ ( $PF_{avg}$ )	👁️	👁️
<b>Energy</b>							
Active energy, infeed and feedback	$E_p$	kWh	--	✓	👁️	👁️	👁️
Reactive energy, infeed and feedback	$E_q$	kVARh	--	✓	--	👁️	👁️
Apparent energy	$E_s$	kVAh	--	✓	--	👁️	👁️
<b>Frequency</b>							
Present frequency	f	Hz	--	✓	👁️	👁️	👁️
<b>Maximum pointer function</b>							
Min/max current, voltage, power	with time stamp		--	--	--	--	👁️

<sup>1)</sup> Depending on ETU version

✓ Available

-- Not available

👁️ Displayable

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Communication and testing/commissioning devices

##### 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	$0.2 \times I_b \dots 1.2 \times I_b$	±1%
Voltage (L-N)	$80 \text{ V} < U < 480 \text{ V}$	±1%
THD current	Up to the 19th harmonic $0.2 \times I_b \dots 1.2 \times I_b$	±5%
THD voltage	Up to the 19th harmonic $80 \text{ V} < U < 480 \text{ V}$	±5%
Power factor PF	$0.2 \times I_b \dots 1.2 \times I_b$	± 0.05% absolute
Active power	$I_b$ and $U_n$ as described below the table	Class 2 according to IEC 61557-12
Active energy	$I_b$ and $U_n$ as described below the table	Class 2 according to IEC 61557-12
Reactive power	$0.2 \times I_b \dots 1.2 \times I_b$	±2%
Apparent power	PF ≥ 0.6 inductive PF ≥ 0.8 capacitive	±2%
Reactive energy	$0.2 \times I_b \dots 1.2 \times I_b$	±2%
Apparent energy	PF ≥ 0.6 inductive PF ≥ 0.8 capacitive	±2%
Frequency	$80 \text{ V} < U < 480 \text{ V}$	±0.1%

##### Legend:

$I_b$  is the maximum current in the relevant size.

Example: 3VA21 →  $I_b = 160 \text{ A}$

$U_n$  refers to the nominal voltage of the metering function;  
between phase and neutral

All specified accuracies refer to an ambient temperature of  
 $23 \text{ °C} \pm 2 \text{ °C}$ .

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Communication and testing/commissioning devices

#### Selection and ordering data











Version	For molded case circuit breakers/ Article No. stem	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>24 V module</b>							
 <p><b>24 V module</b></p> <ul style="list-style-type: none"> <li>• 24 V DC</li> <li>• For mounting in the right-hand accessories compartment of the 3VA2</li> <li>• Optional energy supply for the ETU, also includes continuous operation of the ETU display and the metering function of the ETU 8-series</li> </ul>	✓	--	<b>3VA9187-0TB50</b>		1	1 unit	1CB
	--	✓	<b>3VA9387-0TB50</b>		1	1 unit	1CB
<b>Communication accessories in the molded case circuit breaker</b>							
 <p><b>COM060 communication module</b></p> <ul style="list-style-type: none"> <li>• For mounting in the right-hand accessories compartment of the 3VA2 molded case circuit breaker (including ETU power supply)</li> <li>• Communication with the COM800/COM100 breaker data server via the 3VA-line</li> <li>• Including a T-Connector</li> </ul>	✓	--	<b>3VA9187-0TB10</b>		1	1 unit	1CB
	--	✓	<b>3VA9387-0TB10</b>		1	1 unit	1CB
<b>Breaker data server</b>							
 <p><b>COM800 breaker data server</b></p> <ul style="list-style-type: none"> <li>• 2 terminating resistors</li> <li>• Central communication module for connecting up to eight 3VA2 molded case circuit breakers via the 3VA-line</li> <li>• Ethernet 10/100 Mbps interface</li> <li>• Module slot for plugging on an optional PROFIBUS DP or PROFINET module</li> </ul>			<b>3VA9987-0TA10</b>		1	1 unit	1CB
 <p><b>COM100 breaker data server</b></p> <ul style="list-style-type: none"> <li>• 2 terminating resistors</li> <li>• Optimized, central communication module for connecting a 3VA2 molded case circuit breaker via the 3VA-line</li> <li>• Ethernet 10/100 Mbps interface</li> <li>• Module slot for plugging on an optional PROFIBUS DP or PROFINET module</li> </ul>			<b>3VA9987-0TA20</b>		1	1 unit	1CB
 <p><b>7KM PAC PROFIBUS DP expansion module</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul>			<b>7KM9300-0AB01-0AA0</b>		1	1 unit	1DD
 <p><b>7KM PAC Switched Ethernet PROFINET expansion module</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• The 7KM PAC Switched Ethernet PROFINET expansion module provides the status and measured quantities of the 3VA molded case circuit breaker to PROFINET via the PROFINET IO, PROFlenergy and Modbus TCP protocols.</li> </ul>			<b>7KM9300-0AE01-0AA0</b>		1	1 unit	1DD
 <p><b>7KM PAC RS 485 Modbus RTU expansion module</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul>			<b>7KM9300-0AM00-0AA0</b>		1	1 unit	1DD



## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Communication and testing/commissioning devices





	Version	SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Accessories for communication</b>							
	<b>T-Connector</b> • Spare part • Provides spur line feeder to COM060 and loops through to the next circuit breaker.	d	<b>3VA9987-0TG10</b>		1	1 unit	1CB
	<b>DIN rail adapter</b> For snapping the T-Connector onto a DIN rail.		<b>3VA9987-0TG11</b>		1	1 unit	1CB
	<b>Preassembled T-Connector-to-T-Connector or T-Connector-to-COM800/COM100 connecting cable</b> • 0.4 m long • 1 m long • 2 m long • 4 m long		<b>3VA9987-0TC10</b> <b>3VA9987-0TC20</b> <b>3VA9987-0TC30</b> <b>3VA9987-0TC40</b>		1	1 unit	1CB
	<b>Preassembled connecting cable for extending the COM060-to-T-Connector spur line connection</b> • 0.4 m long • 0.8 m long		<b>3VA9987-0TF20</b> <b>3VA9987-0TF10</b>		1	1 unit	1CB
	<b>Additional bus terminating resistors</b>		<b>3VA9987-0TE10</b>		1	5 units	1CB
	<b>Voltage tap to external N conductor</b> Cable for connecting the neutral point for the metering function of the 8-series ETU, length 1.5 m		<b>3VA9987-0UC10</b>		1	1 unit	1CB
	<b>External current transformer for N conductor</b> Connection of an external current transformer for the N conductor for 3-pole 3VA2 molded case circuit breakers for 5-series and 8-series ETUs, including connecting cable		<b>3VA9007-0NA10</b> <b>3VA9107-0NA10</b> <b>3VA9307-0NA10</b>		1	1 unit	1CB
	<b>External current transformer as straight-through transformer</b> <span style="color: orange;">NEW</span> • $I_n = 25 \dots 150$ A • $I_n = 160 \dots 350$ A • $I_n = 400 \dots 630$ A • $I_n = 600 \dots 1250$ A		<b>3VA9077-0NA10</b> <b>3VA9177-0NA10</b> <b>3VA9377-0NA10</b> <b>3VA9677-0NA10</b>		1	1 unit	1CB
	<b>Spare part: cable for connecting external current transformer for N conductor</b>		<b>3VA9907-0NB10</b>		1	1 unit	1CB
<b>Display</b>							
	<b>DSP800 display</b> • For displaying the status, measured values and parameters of up to 8 3VA2 molded case circuit breakers • Connection to the COM800/COM100 via Ethernet for displaying information of the COM800/COM100 and the connected 3VA2 molded case circuit breaker		<b>3VA9987-0TD10</b>		1	1 unit	1CB
<b>External function box</b>							
	<b>EFB300</b> • External function box for connection to the ETU of the 3VA2 molded case circuit breaker • 4 digital outputs for information output • 1 digital input • ZSI functionality • SO interface • Including cable 1.5 m in length		<b>3VA9987-0UA10</b>		1	1 unit	1CB
	<b>Connecting cable for EFB300</b> Spare part • Length 1.5 m • Length 3.0 m • Length 3.0 m for 3VA2 with EFB and RCD820		<b>3VA9987-0UB10</b> <b>3VA9987-0UB20</b> <b>3VA9987-0UB30</b>		1	1 unit	1CB



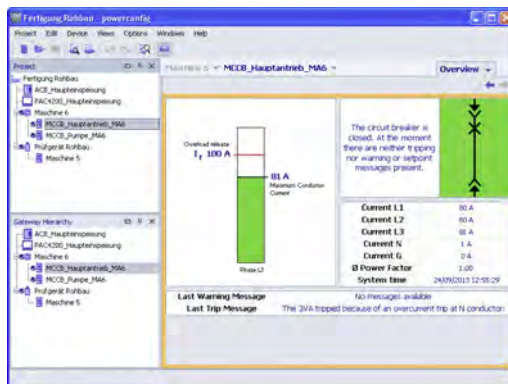
## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Communication and testing/commissioning devices

Version	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	d					
<b>Test devices</b>						
	<b>TD300</b> • Connection to the front interface of the ETU • Test device for activating the ETU and triggering a test trip	<b>3VA9987-0MA10</b>		1	1 unit	1CB
<b>3VA9987-0MA10</b>						
	<b>TD500</b> • 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 external power supply • Including connecting cable to the 3VA2 molded case circuit breaker	<b>3VA9987-0MB10</b>		1	1 unit	1CB
<b>3VA9987-0MB10</b>						
	<b>Spare part: external power supply for TD500</b> Spare part 110 ... 240 V AC	<b>3VA9987-0MX10</b>		1	1 unit	1CB
<b>3VA9987-0MX10</b>						
	<b>Spare part: cable for connecting the TD500 to the 3VA2 molded case circuit breaker</b>	<b>3VA9987-0MY10</b>		1	1 unit	1CB
<b>3VA9987-0MY10</b>						

#### Commissioning and service software: powerconfig



- Commissioning and service software for 3VA2 molded case circuit breakers and further SENTRON components
- For Windows XP, Windows 7 and Windows 8
- Connection via TD500 or COM800/COM100
- Languages: German, English, Chinese, Spanish, Portuguese
- 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/WWW/view/en/63452759>
- More information can be found on the Internet at: [www.siemens.com/sentron](http://www.siemens.com/sentron)

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Accessories for 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.

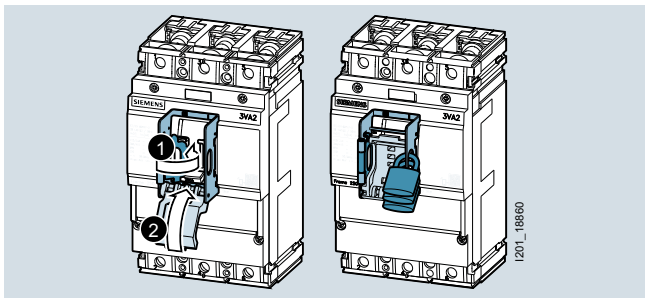
Using the interlocking technology, it is possible to mutually interlock two or more molded case circuit breakers. The interlock system is designed to ensure that no more than one molded case circuit breaker can be operated at a time. The following methods of interlocking can be used on 3VA molded case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

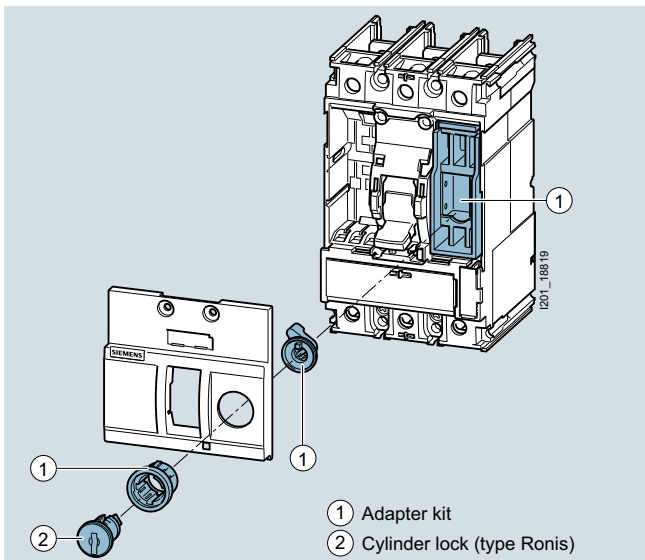


##### Locking with cylinder lock

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



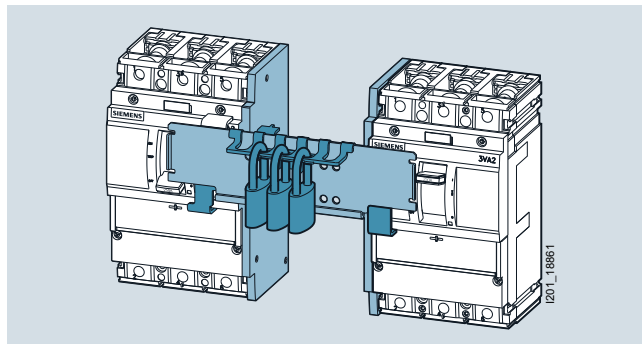
- ① Adapter kit  
② Cylinder lock (type Ronis)

#### Interlocking technology

##### Interlocking by means of a sliding bar

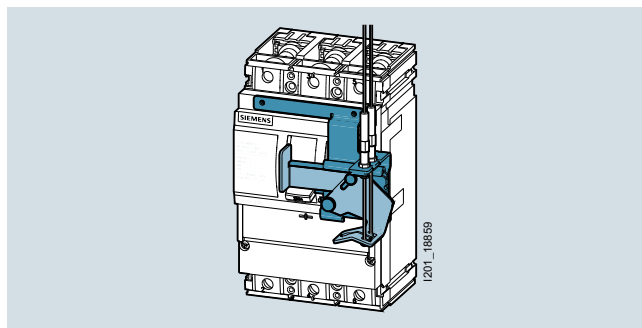
The sliding bar allows between two and three 3VA molded case circuit breakers of the same size to be mutually interlocked by means of a sliding bar.

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.

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Accessories for 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

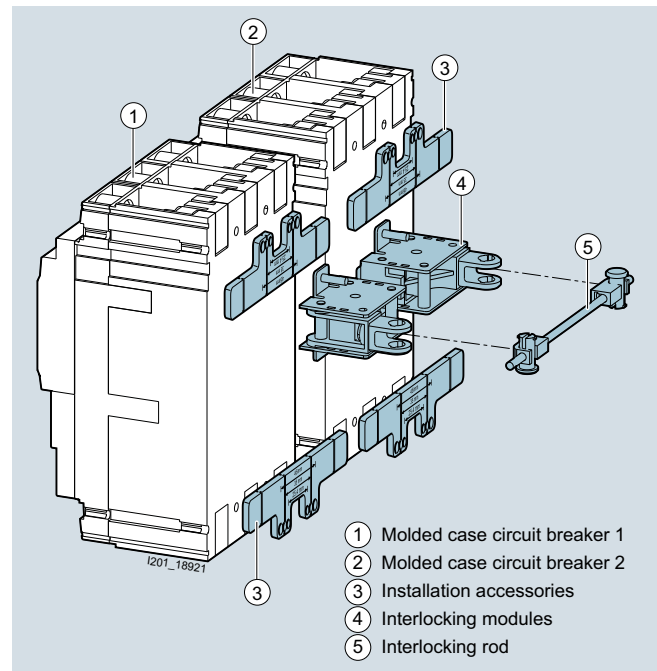
The rear interlock system allows implementation of an interlock without restricting the number of accessories which can be installed at the front of the 3VA molded case circuit breaker. Using the rear interlock, it is possible to create an interlock between two molded case circuit breakers of different 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 plate comprising a plate and two profile rails is available as an accessory to assist installation.

#### Rear interlock for plug-in or draw-out units

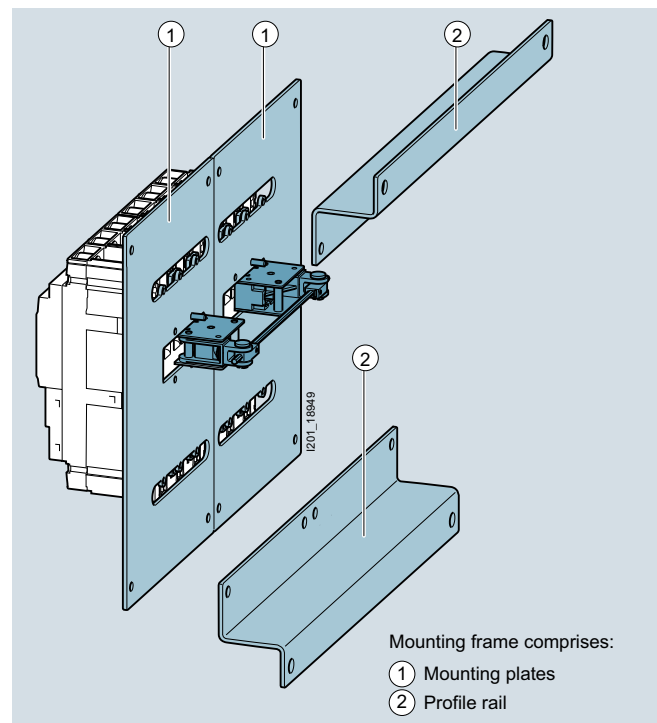
In order to install a rear interlock for plug-in or draw-out versions of the molded case circuit breakers, the plunger needs to be lengthened. The rear interlock for plug-in or draw-out versions is offered as a complete kit.



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

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Accessories for locking, blocking and interlocking

#### Selection and ordering data




Version	For molded case circuit breakers/ Article No. stem					SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG					
	3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24	3VA25											
<b>Accessories for locking, blocking and interlocking</b>																
 3VA9167-0LF10	<b>Adapter kit for mounting the cylinder lock (type Ronis) in the accessories compartment of the molded case circuit breaker</b> Comprising 2 cylinder lock casings (one for locking and one for interlocking) and the appropriate mounting module					d										
	Notes	✓	--	--	--							--	<b>3VA9157-0LF10</b>	1	1 unit	1CB
	• To implement an interlock or a lock: select suitable cylinder lock(s)	--	✓	--	--							--	<b>3VA9257-0LF10</b>	1	1 unit	1CB
	• For an interlock: select the same cylinder lock number	--	--	✓	--							--	<b>3VA9167-0LF10</b>	1	1 unit	1CB
		--	--	--	✓							--	<b>3VA9367-0LF10</b>	1	1 unit	1CB
 3VA9980-0VL10	<b>Cylinder lock (type Ronis)</b> • 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															
	• Key 1 (lock number 1)	✓	✓	✓	✓							--	<b>3VA9980-0VL10</b>	1	1 unit	1CB
	• Key 2 (lock number 2)	✓	✓	✓	✓							--	<b>3VA9980-0VL20</b>	1	1 unit	1CB
	• Key 3 (lock number 3)	✓	✓	✓	✓							--	<b>3VA9980-0VL30</b>	1	1 unit	1CB
• Key 4 (lock number 4)	✓	✓	✓	✓	--	<b>3VA9980-0VL40</b>	1	1 unit	1CB							
 3VA9168-0VF30	<b>Sliding bar</b> Complete kit for interlocking 2 circuit breakers															
	Note	✓	--	--	--							--	<b>3VA9158-0VF30</b>	1	1 unit	1CB
	The article number must be ordered 2 x to implement an interlock between 3 breakers of the same size.	--	✓	--	--							--	<b>3VA9258-0VF30</b>	1	1 unit	1CB
		--	--	✓	--							--	<b>3VA9168-0VF30</b>	1	1 unit	1CB
		--	--	--	✓							--	<b>3VA9368-0VF30</b>	1	1 unit	1CB
 3VA9167-0VF10	<b>Module for handle interlock using a Bowden cable</b>															
	Notes	✓	--	--	--							--	<b>3VA9157-0VF10</b>	1	1 unit	1CB
	• A separate handle interlock module is required for each 3VA.	--	✓	--	--							--	<b>3VA9257-0VF10</b>	1	1 unit	1CB
	• A Bowden cable must be ordered separately.	--	--	✓	--							--	<b>3VA9167-0VF10</b>	1	1 unit	1CB
		--	--	--	✓							--	<b>3VA9367-0VF10</b>	1	1 unit	1CB
 3VA9980-0VC10	<b>Bowden cable</b>															
	Versions															
	• Length 0.6 m												<b>3VA9980-0VC10</b>	1	1 unit	1CB
	• Length 1.0 m												<b>3VA9980-0VC20</b>	1	1 unit	1CB
• Length 1.5 m						<b>3VA9980-0VC30</b>	1	1 unit	1CB							
 3VA9088-0VM10	<b>Rear interlock with rod</b> Complete kit for fixed mounting															
	Note	✓	✓	✓	✓							--	<b>3VA9088-0VM10</b>	1	1 unit	1CB
	Mounting frames are not included in scope of supply.															
 3VA9588-0VM10						✓ NEW	<b>3VA9588-0VM10</b>	1	1 unit	1CB						


## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

#### Accessories for locking, blocking and interlocking

2

Version	For molded case circuit breakers/ Article No. stem					SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24	3VA25						
 3VA9088-OVM30	<b>Rear interlock with rod</b> Complete kit for plug-in/draw-out unit					d	3VA9088-OVM30		1	1 unit	1CB
	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.										
 3VA9588-OVK10	<b>Mounting frame for rear interlock with rod</b> For fixed mounting only The following are required for the complete mounting frame kit: Versions					d					
	<ul style="list-style-type: none"> <li>Profile rails Contents: 2 units</li> </ul>										
 3VA9268-OVK20	<ul style="list-style-type: none"> <li>Mounting plate one per breaker, depending on size</li> </ul>					d					
	Notes										
	2 mounting plates must be ordered. They are screwed onto the profile rail that can be ordered above. Different breakers can be mutually interlocked (3VA25 only with 3VA25).										
					NEW	3VA9088-OVK10		1	1 unit	1CB	
					NEW	3VA9588-OVK10		1	1 unit	1CB	
						3VA9158-OVK20		1	1 unit	1CB	
						3VA9258-OVK20		1	1 unit	1CB	
						3VA9268-OVK20		1	1 unit	1CB	
						3VA9468-OVK20		1	1 unit	1CB	
					NEW	3VA9588-OVK20		1	1 unit	1CB	


Version	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
<b>Accessories for locking</b>										
 3VA9388-OLB10	<b>Locking devices for handles</b>				d	3VA9088-OLB10 3VA9388-OLB10		1	1 unit	1CB

## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

Other

#### Selection and ordering data

Version	For molded case circuit breakers/ Article No. stem	SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG			
	3VA10 3VA12 3VA20 3VA23 3VA25 3VA11 3VA21 3VA24 3VA22	d								
<b>Cover frame for door cut-out</b>										
<b>Cover frame for door cut-out for molded case circuit breaker</b>										
Versions										
 3VA9163-0SB10	• 3-pole, door cut-out without trip unit	✓	--	--	--	--	3VA9053-0SB10	1	1 unit	1CB
		--	✓	--	--	--	3VA9253-0SB10	1	1 unit	1CB
		--	--	✓	--	--	3VA9163-0SB10	1	1 unit	1CB
		--	--	--	✓	--	3VA9383-0SB10	1	1 unit	1CB
		--	--	--	--	✓ NEW	3VA9503-0SB10	1	1 unit	1CB
	• 3-pole, door cut-out with trip unit	✓	--	--	--	--	3VA9053-0SB20	1	1 unit	1CB
		--	✓	--	--	--	3VA9253-0SB20	1	1 unit	1CB
		--	--	✓	--	--	3VA9163-0SB20	1	1 unit	1CB
		--	--	--	✓	--	3VA9363-0SB20	1	1 unit	1CB
		--	--	--	--	✓ NEW	3VA9503-0SB20	1	1 unit	1CB
• 4-pole, door cut-out without trip unit	✓	--	--	--	--	3VA9054-0SB10	1	1 unit	1CB	
	--	✓	--	--	--	3VA9254-0SB10	1	1 unit	1CB	
	--	--	✓	--	--	3VA9164-0SB10	1	1 unit	1CB	
	--	--	--	✓	--	3VA9384-0SB10	1	1 unit	1CB	
	--	--	--	--	✓ NEW	3VA9504-0SB10	1	1 unit	1CB	
• 4-pole, door cut-out with trip unit	✓	--	--	--	--	3VA9054-0SB20	1	1 unit	1CB	
	--	✓	--	--	--	3VA9254-0SB20	1	1 unit	1CB	
	--	--	✓	--	--	3VA9164-0SB20	1	1 unit	1CB	
	--	--	--	✓	--	3VA9364-0SB20	1	1 unit	1CB	
	--	--	--	--	✓ NEW	3VA9504-0SB20	1	1 unit	1CB	
<b>Cover frame for MO320 motor operators</b>	✓	--	--	--	--	3VA9053-0SB20	1	1 unit	1CB	
	--	✓	✓	--	--	3VA9257-0SB30	1	1 unit	1CB	
	--	--	--	✓	--	3VA9387-0SB30	1	1 unit	1CB	
<b>Cover frame for RCD320, RCD520 and RCD820 residual current devices</b>										
Versions										
• 3-pole	✓	--	--	--	--	3VA9053-0SB10	1	1 unit	1CB	
	--	✓	✓	--	--	3VA9253-0SB10	1	1 unit	1CB	
	--	--	--	✓	--	3VA9303-0SB40	1	1 unit	1CB	
• 4-pole	✓	--	--	--	--	3VA9054-0SB10	1	1 unit	1CB	
	--	✓	✓	--	--	3VA9254-0SB10	1	1 unit	1CB	
	--	--	--	✓	--	3VA9304-0SB40	1	1 unit	1CB	
<b>Cover frame for front mounted rotary operator</b>	✓	--	--	--	--	3VA9053-0SB10	1	1 unit	1CB	
	--	✓	--	--	--	3VA9253-0SB10	1	1 unit	1CB	
	--	--	✓	--	--	3VA9163-0SB10	1	1 unit	1CB	
	--	--	--	✓	--	3VA9383-0SB10	1	1 unit	1CB	
	--	--	--	--	✓ NEW	3VA9503-0SB10	1	1 unit	1CB	
<b>Cover frame for door feedthrough</b>	--	✓	✓	--	--	3VA9253-0SB20	1	1 unit	1CB	
	--	--	--	✓	--	3VA9353-0SB20	1	1 unit	1CB	
<b>Labeling plate for cover frame</b>							3VA9087-0SX10	1	10 units	1CB



3VA9087-0SX10






## Molded Case Circuit Breakers

### 3VA Molded Case Circuit Breakers – Accessories, IEC

Other

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Version	For molded case circuit breakers/Article No. stem				SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA23 3VA24						
<b>Adapter for DIN rails for 3VA1 molded case circuit breakers</b>										
										
<b>Adapter for DIN rails for 3VA1 molded case circuit breakers</b>										
Versions										
• 1-pole <sup>1)</sup>	✓	--	--	--		<b>3VA9181-OSH10</b>		1	1 unit	1CB
• 2-pole	✓	--	--	--		<b>3VA9182-OSH10</b>		1	1 unit	1CB
• 3 and 4-pole	✓	--	--	--		<b>3VA9187-OSH10</b>		1	1 unit	1CB
• 3 and 4-pole in conjunction with RCD310 or RCD510	✓	--	--	--		<b>3VA9187-OSH20</b>		1	1 unit	1CB
3VA9187-OSH10										
<b>Adapter for 60 mm busbar system (8US)</b>										
										
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.										
For more information, see chapter "Busbar Systems".										
<b>Mounting screw kit</b>										
										
<b>Mounting screw kit</b>										
Versions										
• For fixed-mounted molded case circuit breakers										
- 1-pole	✓	--	--	--		<b>3VA9111-OSS10</b>		1	1 unit	1CB
- 2 and 3-pole (apart from 125 A/160 A with 55 kA and 70 kA)	✓	✓	--	--		<b>3VA9116-OSS10</b>		1	1 unit	1CB
- 3-pole (125 A/160 A with 55 kA and 70 kA) and 4-pole	✓	✓	--	--		<b>3VA9114-OSS10</b>		1	1 unit	1CB
- 3-pole	--	--	✓	--		<b>3VA9126-OSS10</b>		1	1 unit	1CB
- 4-pole	--	--	✓	--		<b>3VA9124-OSS10</b>		1	1 unit	1CB
- 3 and 4-pole	--	--	--	✓		<b>3VA9328-OSS10</b>		1	1 unit	1CB
• For plug-in technology	✓	✓	--	--		<b>3VA9114-OSS10</b>		1	1 unit	1CB
• For plug-in and draw-out units	--	✓	--	--		<b>3VA9114-OSS10</b>		1	1 unit	1CB
	--	--	✓	--		<b>3VA9124-OSS10</b>		1	1 unit	1CB
	--	--	--	✓		<b>3VA9328-OSS10</b>		1	1 unit	1CB
For 3VA 1000 A molded case circuit breakers:										
• Spare part 4 screws 4 nuts metric thread						<b>3VA9517-OSS10</b>		1	1 unit	1CB

<sup>1)</sup> For 3VA1 molded case circuit breakers, 160 A 1-pole up to 25 kA










## Molded Case Circuit Breakers

3VL Molded Case Circuit Breakers up to 1600 A, IEC

### Introduction

### Overview

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Devices	Page	Application/ individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
 <p><b>3VL molded case circuit breakers for line protection</b></p> <p><b>3VL molded case circuit breakers for generator protection</b></p>	<a href="#">2/140 ...</a> <a href="#">2/155, ...</a> <a href="#">2/164 ...</a> <a href="#">2/181</a>	<p>The overload and short-circuit releases are designed for the protection of cables, leads and non-motor loads.</p> <p>The overload and short-circuit releases can be used for optimized protection of generators.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2.	✓	✓	✓
 <p><b>3VL molded case circuit breakers for motor protection</b></p> <p>Are you IE3/IE4 ready?</p> 	<a href="#">2/156 ...</a> <a href="#">2/159</a>	<p>Circuit breakers for motor protection are specifically designed for the characteristic curve of the motor, and have additional functions such as phase failure detection and adjustable trip class.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2. IE3 ready	✓	✓	✓
 <p><b>3VL molded case circuit breakers for starter protection</b></p> <p>Are you IE3/IE4 ready?</p> 	<a href="#">2/160, ...</a> <a href="#">2/161</a>	<p>Starter combinations consist of: motor starter protector + contactor + overload relay. The motor starter protector provides short-circuit protection and the isolating function. The task of the contactor is the operational switching of the feeder. The overload relay provides overload protection, which is specifically designed for the motor.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2. IE3 ready	✓	✓	✓
 <p><b>3VL non-automatic circuit breakers, molded case</b></p>	<a href="#">2/160, ...</a> <a href="#">2/161, ...</a> <a href="#">2/182, ...</a> <a href="#">2/183</a>	<p>These circuit breakers are used as feeder circuit breakers, main control switches or disconnectors without overload protection. They have fixed short-circuit releases.</p>	IEC 60947-1, EN 60947-1, IEC 60947-2, EN 60947-2. Isolating features according to IEC 60947-2, EN 60947-2.	✓	✓	✓
 <p><b>Auxiliary switches and auxiliary releases for 3VL molded case circuit breakers</b></p>	<a href="#">2/189, ...</a> <a href="#">2/190</a>	<p>Auxiliary switches, alarm switches, undervoltage releases and shunt releases</p>	As for circuit breakers	✓	✓	✓
 <p><b>Operating mechanisms</b></p>	<a href="#">2/192 ...</a> <a href="#">2/199</a>	<p>The manual operating mechanisms are available in two versions:</p> <ul style="list-style-type: none"> <li>• Front-operated rotary operating mechanism,</li> <li>• Door-coupling rotary operating mechanism</li> </ul> <p>In the case of the motorized operating mechanisms there are also two versions:</p> <ul style="list-style-type: none"> <li>• MO for standard applications</li> <li>• SEO for network synchronization tasks</li> </ul>	As for circuit breakers	✓	✓	✓
 <p><b>Plug-in versions/withdrawable versions</b></p>	<a href="#">2/200 ...</a> <a href="#">2/205</a>	<p>Assembly in plug-in and withdrawable versions allows the 3VL molded case circuit breaker to be replaced quickly without accessing the terminals.</p>	As for circuit breakers	✓	✓	✓










## Molded Case Circuit Breakers

### 3VL Molded Case Circuit Breakers up to 1600 A, IEC

## Introduction

2

Devices	Page	Application/ individual components	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
	<a href="#">2/206</a>	Protection of plant and personnel against damage or injury caused by residual currents and insulation faults.	IEC EN 60947-2 (Annex 5)	✓	✓	✓
	<a href="#">Ch. 13</a>	Modular residual current devices (MRCD) monitor residual currents in electrical systems and trip the molded case circuit breaker via an auxiliary release after an adjustable advance warning if the residual current exceeds a defined value.	IEC EN 60947-2 (Annex M)	✓	✓	✓
	<a href="#">2/207 ...</a> <a href="#">2/212</a>	Front connecting bars, rear terminals, box terminals, circular conductor terminals, multiple feed-in terminals, auxiliary conductor terminals, terminal plates, connections with screw terminals, terminal covers for circuit breakers, phase barriers for circuit breakers	As for circuit breakers	✓	✓	✓
	<a href="#">2/213 ...</a> <a href="#">2/218</a>	Locking devices for toggle levers, rear interlocking modules, interlocking modules for Bowden cable interlocking	As for circuit breakers	✓	✓	✓
	<a href="#">Ch. 8</a>	The 3KC ATC5300 and ATC3100 transfer control devices, equipped with two circuit breakers with motorized operating mechanism, serve as a transfer system that automatically or manually switches between two power supply systems in low-voltage power distribution applications.	IEC 60947-6-1 DIN VDE 0660-114 UL 508 CSA 22.2 No. 14	✓	✓	✓
	<a href="#">Ch. 11</a>	Busbar adapters	As for circuit breakers	✓	✓	✓
	<a href="#">2/221</a>	Data transmission through COM20, COM21: COM20 (PROFIBUS) for Electronic Trip Units with communication function, COM21 (MODBUS) for Electronic Trip Units with communication function, powerconfig parameterization software	As for circuit breakers	✓	✓	✓
<b>Further accessories</b>	<a href="#">2/222 ...</a> <a href="#">2/225</a>	Cover frames for door cut-outs, to increase degree of protection	As for circuit breakers	✓	✓	✓