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 SENTRON

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## Technical Support



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

[www.siemens.com/lowvoltage/technical-support](http://www.siemens.com/lowvoltage/technical-support)

# 3VA Molded Case Circuit Breakers with UL and IEC Certification

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SENTRON



## 3VA Molded Case Circuit Breakers with UL and IEC Certification · 10/2017

Supersedes:  
3VA Molded Case Circuit Breakers with UL Certification  
10/2016

Refer to the Industry Mall for current updates of this catalog:  
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Please contact your local Siemens branch.

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## Introduction

1

**3VA5 Molded Case Circuit Breakers**  
up to 250 A, TM, 600 V, up to 100 kA

2

**3VA6 Molded Case Circuit Breakers**  
up to 600 A, ETU, 600 V, up to 150 kA

3

## Accessories and Spare Parts

4

## Appendix

5

The products and systems listed in this catalog are  
developed and manufactured using a certified  
quality management system in accordance with  
EN ISO 9001:2008.



As a source of energy for industry, buildings and infrastructures, the reliability of the power supply is becoming ever more important. Only a flexible power supply tailored to every individual scenario can meet all individual challenges, while at the same time increasing availability and profitability.

Totally Integrated Power (TIP) from Siemens is a holistic, customizable power supply solution comprising software and hardware products, systems and solutions across all voltage levels. The systems and products of the TIP portfolio can be integrated seamlessly into industrial and building automation systems. TIP enables companies to focus on their core business and simultaneously ensure a reliable, secure and efficient supply of power. Because "power matters".

# Electrical power distribution – integrated, safe and efficient

The increasing level of automation in buildings and industry introduces novel requirements for electrical power distribution and makes the underlying technologies ever more complex. Our components and systems are perfect for integration into networked environments, and they significantly contribute toward increasing the efficiency of your business processes. Communication-capable, flexible and fail-safe devices combine with digital engineering to provide you with optimized solutions – for any application.

## Comprehensive portfolio

Our products lay the foundations for safe, reliable and efficient electrical infrastructure at medium and low-voltage levels in buildings, infrastructure and industrial applications. Our portfolio includes, among other devices, power distribution boards and distribution boards, communication-capable protection, switching, measuring and monitoring devices, as well as switches and socket outlets. Our tested and certified components, systems and software packages allow for ever-suitable solutions in both centralized and distributed power systems the world over. They reliably protect against accidents, faults and fires caused by electrical installations and allow consumers to utilize electrical power in a sustainable, responsible manner.

## Simplified engineering

We support you throughout the entire value chain – from the planning stage, during installation and right through to operation, as well as when it comes to measures for modernizing and expanding your electrical power distribution systems. You benefit from a broad portfolio of personalized and online-based maintenance and support services. Professional software and data ensure simple planning in compliance with standards as well as error-free configuration and documentation. Clear ordering channels, transparent product availability data and high delivery reliability coupled with swift global spare part provision, comprehensive online services, expert consulting and fast, efficient and reliable processes ensure that you are optimally covered throughout the entire product life cycle.

# Planning Efficiency

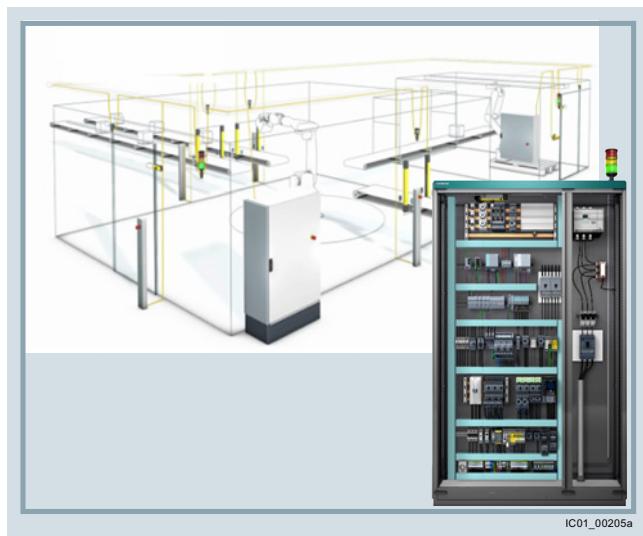
## Overview

With Planning Efficiency, Siemens supplies answers to typical questions that often present themselves in electrical planning:

- What is the appropriate product for my application?
- Where can I find product data?
- How can I make processes more efficient and save more time?

The entire electronic support offered by Siemens is merged under Planning Efficiency. At each phase of the project, online functions make the everyday work of the planners easier and more efficient. Planning Efficiency focuses on optimizing the control cabinet configuration among other things.

Especially in this early phase, up to 80% of time and costs can be saved.



IC01\_00205a

In order to supply the planners with all they need and to simplify the modern electrical planning of every aspect of the control cabinet configuration, the electrical support of Planning Efficiency focuses on four benefits:

- Finding the right product faster using intuitive product selection
- Time savings of up to 80% with universal product data for your CAE and CAD systems
- User-friendly compilation of project-specific documentation
- Comprehensive support – at any time, whatever your location



## Process phases

At each phase of the process, Siemens provides comprehensive online functions free of charge.

This ensures that all the necessary information and product data are available around the clock at any location worldwide.



### Configurators for products and systems

With just a few mouse clicks, you will find yourself guided by the configurator to a suitable product or system. Simply enter the relevant parameters and select your individual solution.

### CAx Download Manager

The CAx Download Manager can supply you with all the necessary CAx file types for the products of your choice for use in all common CAE and CAD systems. The data contained in the files is continuously updated. The whole process involves only four selection steps and is free of charge. All the files you select will then be compiled into a zip file and made available for you to download for further use. This results in a time saving of up to 80% because there is no need for manual data collection thanks to the universal manufacturer data for all commonly used CAE and CAD systems.

### My Documentation Manager

To provide support when creating the plant documentation, we have developed a manual configurator. My Documentation Manager enables you to assemble the standard-compliant plant documentation individually with just a few clicks of the mouse. Simply select the required sections from the existing manuals of the installed Siemens products.

### EPLAN Electric P8 Macro – a big plus for EPLAN users

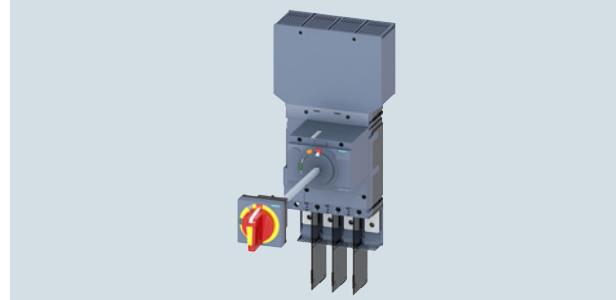
Using the EPLAN Electric P8 Macro in .edz exchange format (EPLAN Data Archived Zipped) the overall time required for data integration can be further reduced. With just a few clicks, the data types for any number of article numbers can be imported and combined. In this way, it is possible for the installed Siemens products to be displayed across different pages of the circuit diagram quickly and easily.

### At a glance

Without Planning Efficiency a lot of time would often be lost due to manual data transmission. Now you are able to concentrate on the essentials. All necessary information and product data is provided by Siemens for easy retrieval.

This makes the control cabinet configuration process more efficient and simplifies your everyday work.

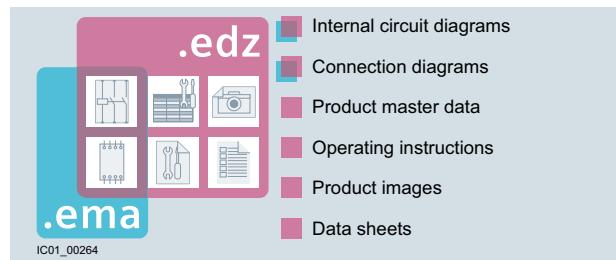
For more information, see [www.siemens.com/planning-efficiency](http://www.siemens.com/planning-efficiency).



The configurator supplies the appropriate 3D models and dimension drawings for the control cabinet construction diagram.

	Internal circuit diagrams		Dimensional drawings		Operating instructions
	Connection diagrams		3D models		Product images
	Product master data		Manuals		Data sheets
	Characteristic curves		Certificates		EPLAN Electric P8 Macros

The CAx Download Manager makes 11 universal data types available, as well as the EPLAN Electric P8 macro.



The EPLAN Electric P8 macro in .edz exchange format offers even more compared to the .ema exchange format.



Find out more about Planning Efficiency in our informative videos

# Technical Support

The Technical Support for low-voltage power distribution and electrical installation technology assists you with all your technical queries about our products and systems – both before and after delivery.

## Still have questions?

Our experts will help you with competent specialist support



## Get all the information you need – with just one click



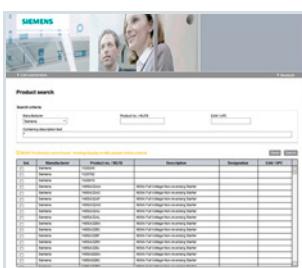
**Industry Online Support – get up-to-date information online fast**  
[www.siemens.com/online-support](http://www.siemens.com/online-support)

In the "Entry type" selection box in Product Support, you will find manuals, operating instructions, catalogs, certificates, FAQs, etc.  
[www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)



**Support Request – the quickest route to the experts**  
[www.siemens.com/lowvoltage/support-request](http://www.siemens.com/lowvoltage/support-request)

You can put your question directly to our Technical Support team using the Support Request Form in Industry Online Support.



**Conversion tool – the easy and efficient way of finding successor products**  
[www.siemens.com/conversion-tool](http://www.siemens.com/conversion-tool)

### The benefits for you

- Response within 4 hours in 93% of cases
- Direct support from an experienced team of engineers and technicians

# SITRAIN – Training for Industry

With SITRAIN, you benefit from practical training directly from the manufacturer. Our certified trainers are active in more than 60 countries and can help you and your employees develop their skills.



**Competence through training**



Information on our training courses can be found at  
[www.siemens.com/lowvoltage/training](http://www.siemens.com/lowvoltage/training)

Requirement for taking part in the courses:  
Basic principles of electrical engineering and power distribution

I201\_19565



## Circuit breaker courses

### LV-CBMAIN

Maintenance and operation of SENTRON 3WL circuit breakers:  
2 days

### LV-CBPROJ

Basic principles of configuring and selecting SENTRON circuit breakers:  
1 day



### LV-CBCOM

Communications with SENTRON components: 1 day



### LV-SENVER

Advanced course on SENTRON products: 1 day

## Power monitoring courses

### LV-EMSENTB

Energy management (Basic): 2 days



### LV-EMSENTE

Energy management (Expert): 1 day

### The benefits for you

- Flexible plant adaptation to market requirements
- Ensuring quality standards in production
- Reliable engineering and commissioning
- Shorter commissioning, maintenance and service times
- Exclude expensive faulty planning right from the outset
- Reduce downtimes and rectify faults more quickly

## Switchboard courses

### LV-ALPHAPB

ALPHA 3200  
Switchboard installation: 1 day

### LV-ALPHATA

ALPHA 3200  
Technology and software: 1 day

# A complete system designed with you in mind

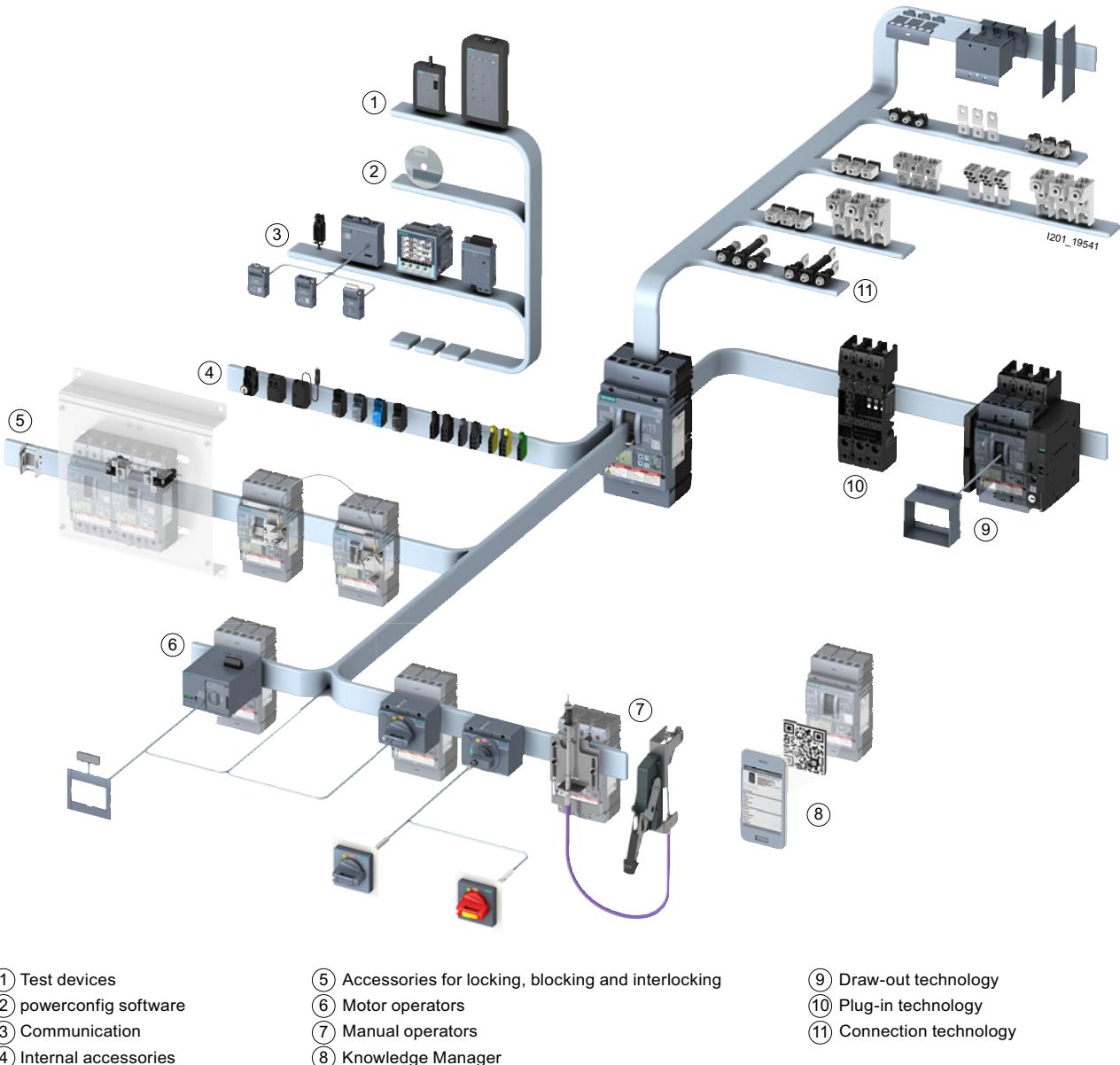


The 3VA molded case circuit breaker with certification in accordance with the American standard UL489 (3VA UL) is a well thought-out, modular and highly variable system that is consistently designed to provide optimum support in every process step – from engineering to daily operation of the electrical power distribution system.

The 3VA UL molded case circuit breaker – a complete system designed with you in mind. It offers high flexibility, efficiency and safety – and enables you to

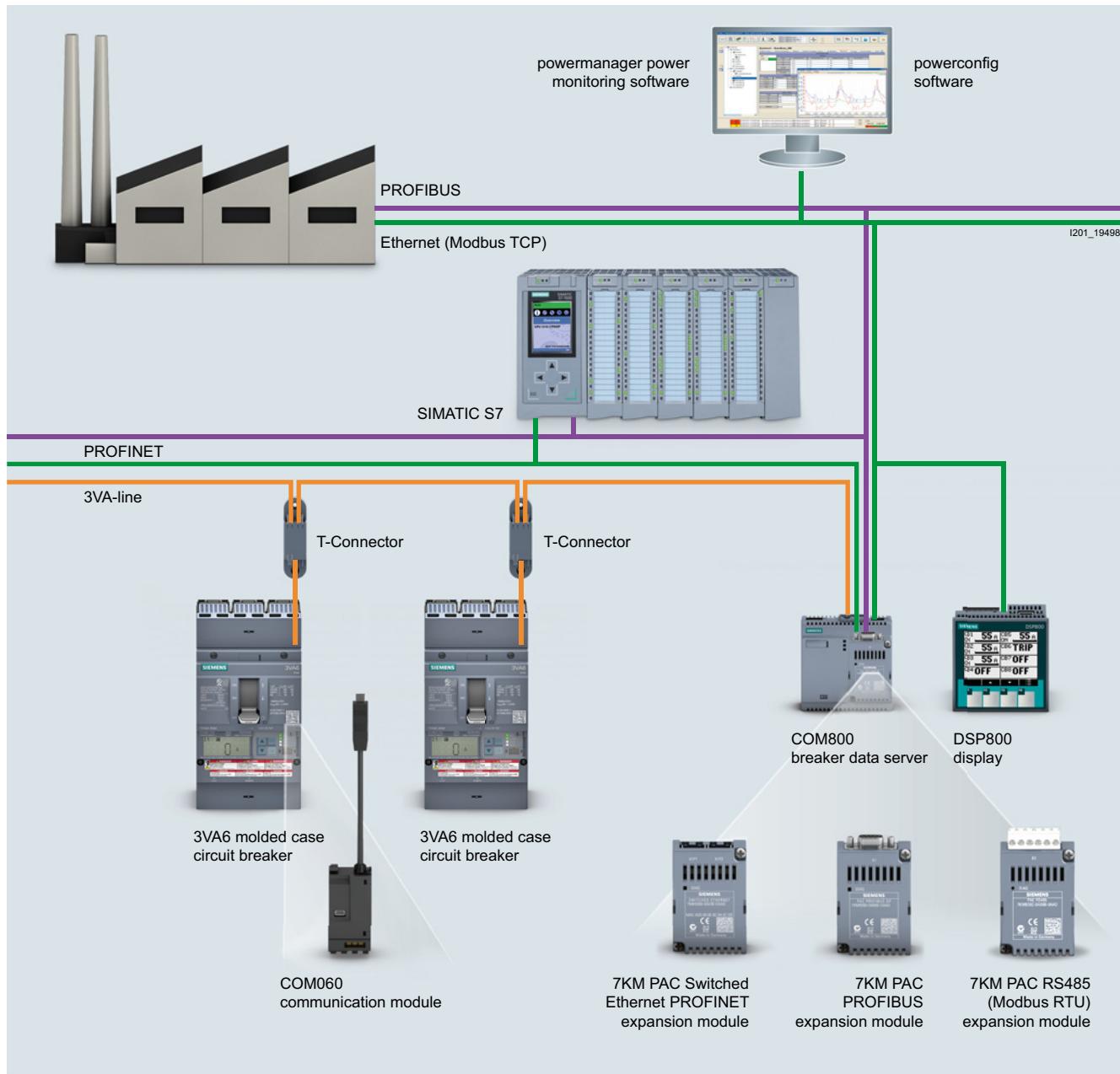
- Find solutions – independently of individual requirements
- Minimize efforts – from planning to installation and maintenance
- Increase transparency – across all energy-relevant data
- Ensure system availability – preventively and reliably

# Wide range of accessories for flexible use



The 3VA UL molded case circuit breakers from the portfolio of SENTRON protection, switching, measuring and monitoring devices ensure the reliable protection of people and property as integral components of efficient power distribution systems. With a wide range of accessories they can be adapted flexibly, quickly and easily to individual requirements.

# High transparency thanks to flexible communication options



The communication-capable 3VA UL molded case circuit breakers can be connected to higher-level management systems by means of various bus systems.

In addition, the Electronic Trip Unit (ETU) of the 8-series can measure current, voltage and also power and energy values and can forward the values by means of communication modules according to requirements.

Similarly, the communication of status, error and alarm messages is possible via internal auxiliary switches – for efficient operation and optimum system monitoring.

# Highlights



Integrated data collection

The ETUs of the 8-series collect and transmit energy data – similar to the 7KM PAC measuring devices.



Modern design

The elegant appearance and intuitive handling are immediately convincing.



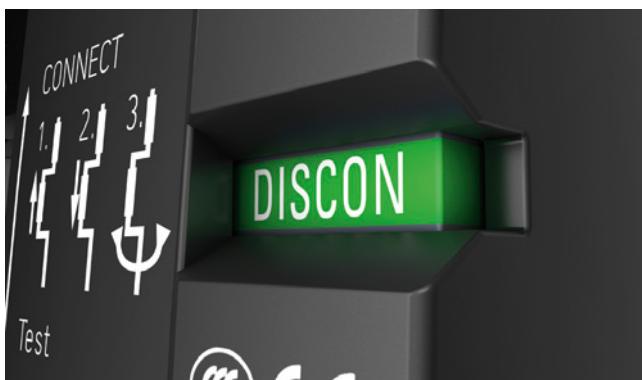
More functionality through variable internal accessories

An extensive range of internal accessories is available for the 3VA UL molded case circuit breakers: many different functions are possible with the numerous auxiliary switches and alarm switches.



Elegant and safe

As an option, the manual rotary operators can be equipped with an illumination kit – for clear indication of the switching position in all visibility conditions.



Clear indication

The circuit breaker position in the draw-out unit is colored and immediately recognizable.



Knowledge Manager

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

# Notes

## Introduction



1/2

### General data

Overview

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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  
Download  
FAQ  
Manual  
Product note  
Software archive  
Technical data

# Introduction

## 3VA UL Molded Case Circuit Breakers

1

### General data

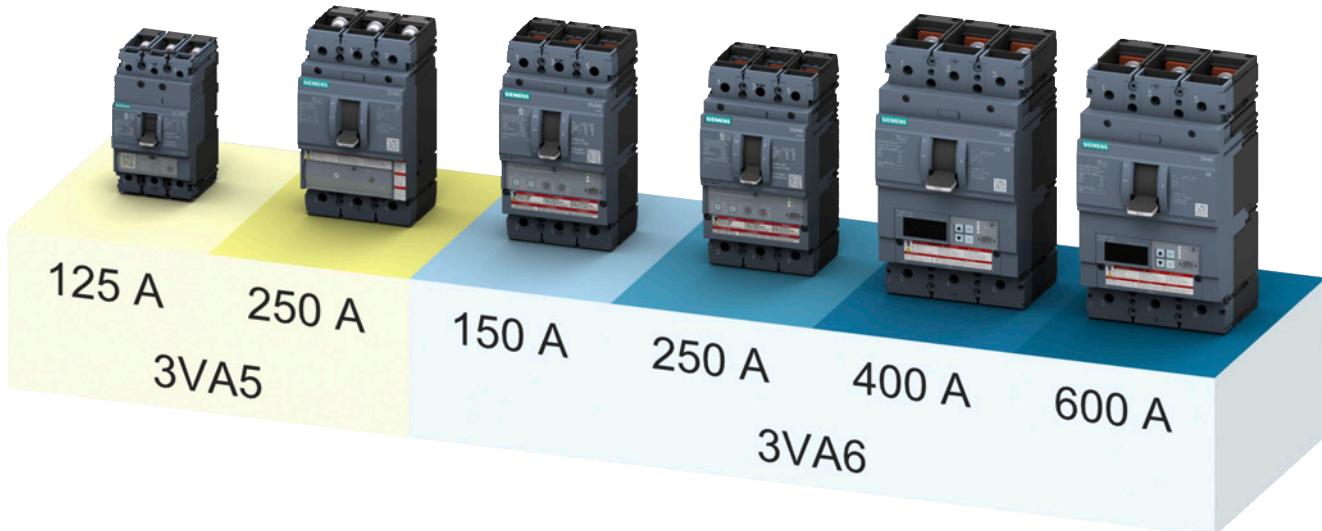
#### Overview

Application	3VA5	3VA6	Description	Standards
<b>Line protection</b>	✓	✓	<p>The trip units for line protection are designed to provide overload and short-circuit protection in AC and DC systems (DC only 3VA5):</p> <ul style="list-style-type: none"> <li>• Cables and conductors</li> <li>• Non motorized loads</li> </ul>	UL 489 IEC/EN 60947-1, IEC/EN 60947-2
<b>Motor circuit protectors</b>	✓	✓	<p>Starter combinations consist of: Molded case circuit breaker + contactor + overload relay. The molded case circuit breaker handles short-circuit protection and the isolating function. The task of the contactor is to operationally switch the feeder. The overload relay handles overload protection, which 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>	UL 489 IEC/EN 60947-1, IEC/EN 60947-2, Appendix O ICB
<b>Molded case switches</b>	✓	✓	<p>3VA Molded Case Switches in accordance with UL 489 possess an integrated instantaneous short-circuit release. They are used:</p> <ul style="list-style-type: none"> <li>• As main disconnecting means</li> <li>• For on/off switching</li> <li>• For disconnection of loads</li> </ul>	UL 489 IEC/EN 60947-1, IEC/EN 60947-2, Appendix L CBI-X

**Sizes**

The integrated 3VA UL portfolio consists of two different ranges of molded case circuit breakers in six frame sizes with different rated operational current.

The new 3VA UL 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 UL ranges help to cut costs and save time.

**Integrated system**

When it comes to operation, functionality and installation, the new 3VA UL 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 are:

- uniform methods of operation
- uniform scope of functions
- uniform installation procedures
- uniform accessories from 15 A ... 600 A (e.g. auxiliary switches, auxiliary releases, etc.)

The new 3VA5 molded case circuit breakers are available in 1 and 3-pole versions (3VA5 125 A) or in 2-pole versions in a 3-pole enclosure and in a 3-pole version (3VA5 250 A). The new 3VA6 molded case circuit breakers are available in 3 and 4-pole versions.

The circuit breakers are available with rated operational currents ranging from 15 A to 600 A and rated voltages up to 600 V AC, depending on the range and frame size.

**3VA5 molded case circuit breakers**

The new 3VA5 molded case circuit breakers reliably perform all the tasks required for line protection.

Features

The key features of the 3VA5 range are:

- Compact design
- Depending on size: 1-pole, 2(3) and 3-pole versions
- Depending on size:
  - Breaking capacity of 25 kA to 100 kA at 480 V and 18 kA to 35 kA at 600 V, 2(3) and 3-pole breakers
  - Breaking capacity of 25 kA to 50 kA at 277 V and 14 kA at 347 V, 1-pole breakers
- Thermal-magnetic trip units
- AC/DC applications
- Modular and easy-to-fit internal accessories with diverse functions
- Uniform accessories platform across all 3VA5/3VA6 molded case circuit breakers

Note:

All basic circuit breakers are supplied without connection technology.

Compact dimensions

Thanks to their compact dimensions, the 3VA5 molded case circuit breakers with frame sizes of 125 A and 250 A are predestined for protecting cables and conductors in plants.

Thermal-magnetic trip unit

A thermal-magnetic 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.

## Introduction

### 3VA UL Molded Case Circuit Breakers

1

#### General data

##### **3VA6 molded case circuit breakers**

The new 3VA6 molded case circuit breakers reliably perform all the tasks required for line protection and protection of starter combinations.

This range is designed for applications with increased requirements:

- Increased breaking capacity
- Integrated metering function
- Connection to a communication system

#### Features

The most important features of the 3VA6 range are:

- Compact dimensions
- 3 and 4-pole versions
- Four breaking capacity classes of 35 kA ... 150 kA at 480 V and 18 kA ... 50 kA at 600 V
- Fixed-mounting, plug-in technology, draw-out technology
- Electronic Trip Units
- Retrofittable communication for ETU 5-series and 8-series
- Depending on the ETU: Integrated metering function
- AC applications
- No derating up to +50 °C
- Modular and easy-to-fit internal accessories with diverse functions
- Uniform accessories platform across all 3VA5/3VA6 molded case circuit breakers

#### Note:

All basic circuit breakers are supplied without connection technology.

#### Compact dimensions with function expansions

In addition to its expanded functionality, the 3VA6 molded case circuit breaker also comes with compact dimensions for fixed mounting, as a plug-in version and a draw-out version.

A cover size of 70 mm (up to 600 A) for the door cut-out and a complete selection of breaking capacity classes from 35 kA to 150 kA at 480 V provide the necessary flexibility for planning.

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

- Very high short-circuit breaking capacity
- Electronic trip unit, versions with and without integrated metering function and optional communication interface

#### Electronic Trip Units (ETUs)

The current sensor of the 3VA6 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 3VA6 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)
- Ground fault detection (G alarm = ground fault alarm) does not trip the circuit breaker, but an indication is shown on the display and/or is communicated to higher-level systems via the communication path or EFB/MMB.

#### Energy management and communication

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

- Metering function for current, voltage, power rating and energy
- Transfer of measurements and breaker status information
- Remote parameter assignment of tripping thresholds and miscellaneous parameters
- Flexible use of digital inputs and outputs of the optionally available EFB300 external function box
- Commissioning/setting the plant topology and also individual breaker parameters with the "powerconfig" software package
- Testing and archiving with the TD300 and TD500 test devices (with powerconfig)

**SIMATIC Energy Suite**Energy transparency - simple and integrated!

As an integrated option for the TIA Portal, SIMATIC Energy Suite efficiently links energy management with automation, thus introducing energy transparency to production.

Moreover, configuration effort is clearly reduced thanks to simplified configuration of energy-measuring components such as 7KM PAC or 3VA.

Thanks to consistent interfacing to higher-level energy management systems or to cloud-based services, recorded energy data can be expanded seamlessly into a cross-location energy management system.

The advantages at a glance:

- Automatic generation of energy management data
- Integration into TIA Portal and the automation system
- Easy configuration

For more information on SIMATIC Energy Suite:  
[www.siemens.com/energysuite](http://www.siemens.com/energysuite)

# 1 Introduction

## 3VA UL Molded Case Circuit Breakers

### General data



Type	3VA51	3VA51	3VA52
Number of poles	1	3	2 in 3-pole, 3

#### 3VA5 molded case circuit breakers for line protection

Frame size	125 A	125 A	250 A
Rated current $I_n$ at 40 °C ambient temperature <sup>4)</sup>	A 15 ... 125	15 ... 125	100 ... 250
Frequency	Hz 0 ... 400	0 ... 400	0 ... 400

#### Electrical characteristics according to UL 489

Rated operational voltage $U_e$ 50/60 Hz AC	V 347	600 Y/347	600
Rated operational voltage $U_e$ DC	V 125	500	600

#### Electrical characteristics according to IEC 60947-2

Rated operational voltage $U_e$ 50/60 Hz AC	V 415	690	690
Rated insulation voltage $U_i$	V 500	800	800
Rated impulse withstand voltage $U_{imp}$	kV 8	8	8

Short-circuit breaking capacity according to UL 489	(S)	(M)	(H)	(S)	(M)	(H)	(M)	(H)	(C)
120 V AC / 50/60 Hz	kA 65	85	100	--	--	--	--	--	--
240 V AC / 50/60 Hz	kA --	--	--	65	85	100	85	100	200
277 V AC / 50/60 Hz	kA 25	35	50	--	--	--	--	--	--
347 V AC / 50/60 Hz	kA 14	14	14	--	--	--	--	--	--
480 Y/277 V AC / 50/60 Hz	kA --	--	--	25	35	65	35	65	100
480 V AC / 50/60 Hz	kA --	--	--	25 <sup>1)</sup>	35 <sup>1)</sup>	65 <sup>1)</sup>	35	65	100
600 Y/347 V AC / 50/60 Hz	kA --	--	--	14	18 <sup>2)</sup>	25 <sup>3)</sup>	18	25	35
600 V AC / 50/60 Hz	kA --	--	--	--	--	--	18	25	35
125 V DC	kA 14	25	30	--	--	--	--	--	--
250 V DC	kA --	--	--	50	85	100	50	85	100
500 V DC	kA --	--	--	50	85	100	50	85	100
600 V DC (3-pole only)	kA --	--	--	--	--	--	50	85	100

#### Short-circuit breaking capacity according to IEC 60947-2

(S)	(M)	(H)	(S)	(M)	(H)	(M)	(H)	(C)
-----	-----	-----	-----	-----	-----	-----	-----	-----

Rated ultimate short-circuit breaking capacity $I_{cu}$ ,									
Rated service short-circuit breaking capacity $I_{cs}$									
rms value, according to IEC 60947-2									
240 V AC / 50/60 Hz	kA 25/25	36/36	55/55	55/55	85/85	150/150	85/85	100/100	200/200
415 V AC / 50/60 Hz	kA 5/5	5/5	5/5	36/36	55/55	70/70	55/55	70/70	110/110
690 V AC / 50/60 Hz	kA --	--	--	5/5	7/5	10/5	7/7	10/10	10/10
125 V DC	kA 14	25	30	--	--	--	--	--	--
250 V DC	kA --	--	--	50	85	100	50	85	100
500 V DC	kA --	--	--	50	85	100	50	85	100
750 V DC (3-pole only)	kA --	--	--	--	--	--	50	85	100

-- Not available

<sup>1)</sup> Applies to:

- $I_n$  15 A to 90 A
- $I_n$  100 A to 125 A from product version E02, available from the 1st quarter of 2018 onwards

<sup>2)</sup>  $I_n$  100 A to 125 A 14 kA

<sup>3)</sup>  $I_n$  40 A to 90 A 18 kA; 100 A to 125 A 14 kA

<sup>4)</sup> 80% rated current applications according to UL 489, 100% rated current applications according to IEC 60947

**Introduction****3VA UL Molded Case Circuit Breakers****General data**

3VA61



3VA62



3VA63



3VA64

**3VA6 molded case circuit breakers for line protection**

150 A	250 A	400 A	600 A
40 ... 150	100, 250	250, 400	400, 600
50 ... 60	50 ... 60	50 ... 60	50 ... 60
600	600 Y/347	600	600
--	--	--	--
690	690	690	690
800	800	800	800
8	8	8	8

(M)	(H)	(C)	(L)												
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
100	100	200	200	100	100	200	200	100	100	200	200	100	100	200	200
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
35	65	100	150	35	65	100	150	35	65	100	150	35	65	100	150
35	65	100	150	35	65	100	150	35	65	100	150	35	65	100	150
18	22	35	50	18	22	35	50	18	22	35	50	18	22	35	50
18	22	35	50	--	--	--	--	18	22	35	50	18	22	35	50
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(M)	(H)	(C)	(L)	(M)	(H)	(C)	(L)	(M)	(H)	(C)	(L)	(M)	(H)	(C)	(L)
85/85	110/110	150/150	200/200	85/85	110/110	150/150	200/200	85/85	110/110	150/150	200/200	85/85	110/110	150/150	200/200
55/55	85/85	110/110	150/150	55/55	85/85	110/110	150/150	55/55	85/85	110/110	150/150	55/55	85/85	110/110	150/150
2.5/2.5	2.5/2.5	2.5/2.5	2.5/2.5	3/3	3/3	3/3	3/3	5/5	5/5	5/5	5/5	6/6	6/6	6/6	6/6
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# 1 Introduction

## 3VA UL Molded Case Circuit Breakers

### General data



Type	3VA51	3VA51	3VA52
Number of poles	1	3	2 in 3-pole, 3

#### 3VA5 molded case circuit breakers for line protection

Rated current  $I_n$  A at 40 °C ambient temperature

##### Service life (make-break operations)

Mechanical	15000	15000	15000
Electrical at $U_e$ UL 489 480 V / IEC 60947 415 V	8000	8000	8000

Trip units	FTFM	TM210	✓	✓	✓
	FTAM	TM230	--	✓	✓
	LI	ETU320/ETU820	--	--	--
	LIG	ETU330/ETU830	--	--	--
	LSI	ETU350	--	--	--
	LSI	ETU550/ETU850	--	--	--
	LSI (G alarm) <sup>3)</sup>	ETU556/ETU856	--	--	--
	LSIG	ETU560/ETU860	--	--	--

#### 3VA5 Motor Circuit Protectors

Rated current  $I_n$  A at 40 °C ambient temperature

Breaking capacity according to UL 489 without contactor at 480 V<sup>4)</sup>

Approval in accordance with IEC 60947-2 Appendix O ICB	--	✓	✓
Trip units <sup>1)</sup>	AM	TM120 AM	✓
	I	ETU310M	--

#### 3VA5 Molded Case Switches

Electrical characteristics according to UL 489

##### Short circuit current rating (SCCR) up to 65 kA at 480 V<sup>2)</sup>

Rated uninterrupted current  $I_n$  at 40 °C ambient temperature A -- 100 150, 250

##### Short circuit current rating (SCCR) up to 100 kA at 480 V<sup>2)</sup>

Rated uninterrupted current  $I_n$  at 40 °C ambient temperature A -- -- 100, 150, 250

Approval in accordance with IEC 60947-2 Appendix L CBI-X

Trip units<sup>1)</sup> FM MCS110 -- ✓ ✓

#### Dimensions

	A	mm	25.4	76.2	105
	B	mm	140	140	185
	C	mm	76.5	76.5	83
	D	mm	93.4	93.4	107

#### General information

Standards and specifications	UL 489/CSA22.2/ IEC 60947-2	UL 489/CSA22.2/ IEC 60947-2	UL 489/CSA22.2/ IEC 60947-2
Power and infeed direction	Top and bottom	Top and bottom	Top and bottom
Standard connection technology	Without connection technology	Without connection technology	Without connection technology

✓ Available -- Not available

<sup>1)</sup> Integrated instantaneous short-circuit release for self-protection

<sup>2)</sup> Switching capacity (SCCR rating) is the maximum permissible short-circuit current at the installation location of the MCS in combination with an appropriate overload protection element

<sup>3)</sup> G alarm, no G protection

<sup>4)</sup> Breaking capacities in combination with contactors (SCCR ratings) may differ



3VA61



3VA62



3VA63



3VA64

### 3VA5 molded case circuit breakers for line protection, standard applications

40 ... 150	100, 250	250, 400	400, 600
20000	20000	15000	15000
9000	6000	6000	4000
--	--	--	--
--	--	--	--
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓

### 3VA6 Motor Circuit Protectors

25 ... 100	110 ... 200	200, 250	400, 500
100	100	100	100
✓	✓	✓	✓
--	--	--	--
✓	✓	✓	✓

### 3VA6 Molded Case Switches

--	--	--	--
--	--	--	--
--	--	400	600
--	--	✓	✓
--	--	✓	✓

### Dimensions

105 (3p)/140 (4p) 198 86 107	105 (3p)/140 (4p) 198 86 107	138 (3p)/184 (4p) 248 110 137	138 (3p)/184 (4p) 248 110 137
---------------------------------------	---------------------------------------	--	--

### General information

UL 489/CSA22.2/ IEC 60947-2	UL 489/CSA22.2/ IEC 60947-2	UL 489/CSA22.2/ IEC 60947-2	UL 489/CSA22.2/ IEC 60947-2
Top and bottom	Top and bottom	Top and bottom	Top and bottom
Without connection technology	Without connection technology	Without connection technology	Without connection technology

## 1 Introduction

### 3VA UL Molded Case Circuit Breakers

#### General data

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

The new 3VA UL 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 UL up to 600 A					
	3VA5 125	3VA5 250	3VA6 150	250	400	600
Auxiliary switches and alarm switches						
Auxiliary releases						
Connection technology						
Plug-in technology						
Draw-out technology						
Front mounted rotary operator						
Door mounted rotary operator						
Operating unit with Bowden cable						
Motor operator MO320 (mounted on the front)						
Accessories for locking, blocking and interlocking						
Communications interface						
EFB300						
TD300 and TD500						
Masking frame						
Max Flex operator						

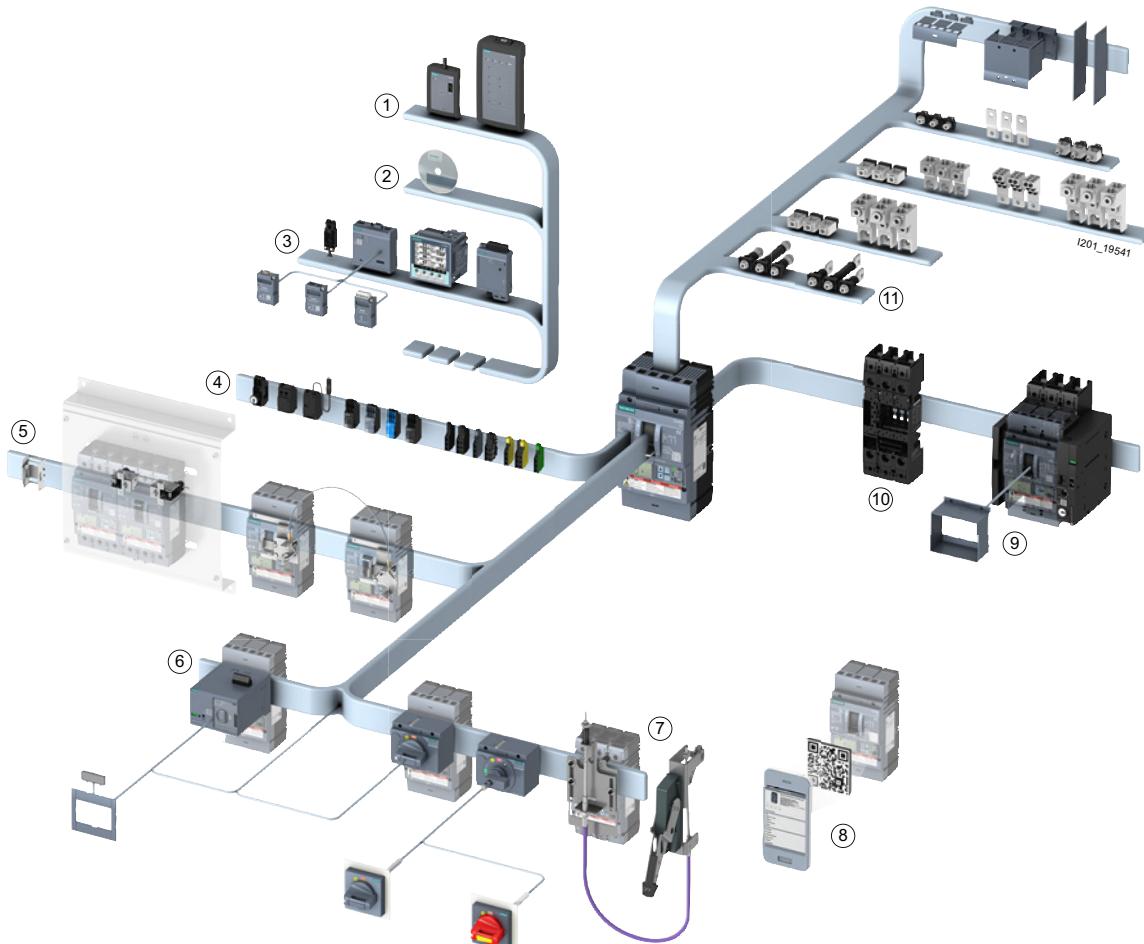
#### **Front terminals**

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

As standard, all 3VA UL molded case circuit breakers are supplied without connection technology.

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 delivery of the relevant component).



- ① Test devices ([page 4/46](#))
- ② powerconfig software ([page 4/47](#))
- ③ Communication ([pages 4/39 to 4/46](#))
- ④ Internal accessories ([pages 4/2 to 4/11](#))
- ⑤ Accessories for locking, blocking and interlocking ([pages 4/48 to 4/51](#))
- ⑥ Motor operators ([page 4/21](#))
- ⑦ Manual operators ([pages 4/12 to 4/20](#))
- ⑧ Knowledge Manager ([page 1/12](#))
- ⑨ Draw-out technology ([pages 4/34 to 4/38](#))
- ⑩ Plug-in technology ([pages 4/34 to 4/38](#))
- ⑪ Connection technology ([pages 4/22 to 4/33](#))

# Introduction

## 3VA UL Molded Case Circuit Breakers

1

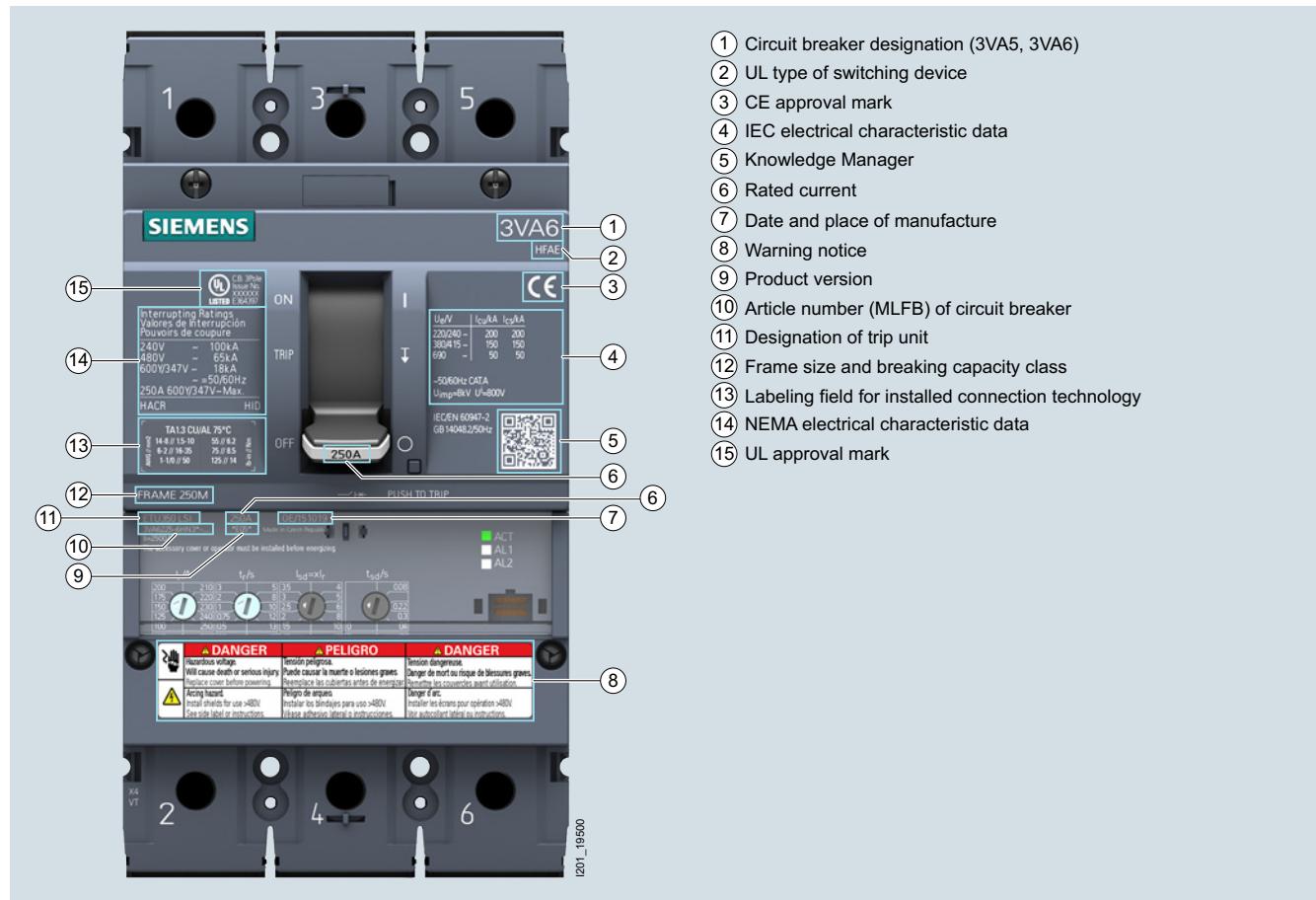
### General data

#### 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.

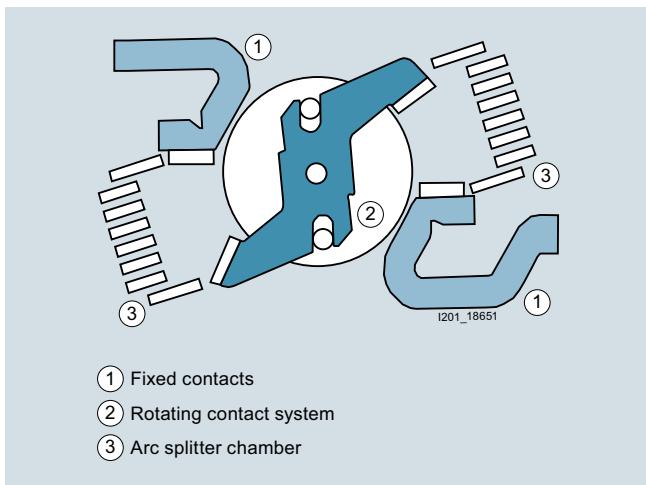
Siemens provides the app free of charge.

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



**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 design 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  $I_{sc}$ .

# Introduction

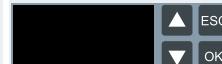
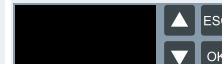
## 3VA UL Molded Case Circuit Breakers

1

### General data

#### Protection functions

##### 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	 TM230 <small>I201_19496</small>	 ETU350 LSI $I_1/A$ $t_s/s$ $I_{exl}$ $t_{sd}/s$ $I_{exl}$ <small>I201_19634</small>	 ETU550 LSI <small>I201_18480</small>	 ETU850 LSI <small>I201_18482</small>
Line protection: TM210, TM230 Motor Circuit Protector: TM120M				
Line protection: ETU320, ETU330, ETU350 Motor Circuit Protector: ETU310M				
Line protection: ETU550, ETU556, ETU560				
Line protection: ETU820, ETU830, ETU850, ETU856, ETU860				
<b>Integrated functions</b>				
Parameterizing	 Setting and reading the parameters in A and s	 Setting and reading the parameters in A and s	 <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	--	 Indicating the ETU status via LEDs	 Indicating the ETU status via LEDs	 Indicating the ETU status via LEDs
Interface	--	 Interface for test devices	 Interface for test devices	 Interface for test devices
Metering function	--	--	--	Metering function integrated
<b>Optional expansions</b>				
	--	--	 24 V module for continuous power supply (also without primary current through the molded case circuit breaker)	 24 V module for continuous power supply (also without primary current through the molded case circuit breaker)
	--	 EFB300 external function box for connecting to the ETU	 EFB300 external function box for connecting to the ETU	 EFB300 external function box for connecting to the ETU
	--	--	 COM060 communication module	 COM060 communication module
	--	--	 COM800/COM100 breaker data server Interface to <ul style="list-style-type: none"> <li>PROFIBUS</li> <li>PROFINET</li> <li>Modbus RTU</li> <li>Ethernet (Modbus TCP)</li> </ul>	 COM800/COM100 breaker data server Interface to <ul style="list-style-type: none"> <li>PROFIBUS</li> <li>PROFINET</li> <li>Modbus RTU</li> <li>Ethernet (Modbus TCP)</li> </ul>
	--	--	 DSP800 external display for installing in the cubicle door	 DSP800 external display for installing in the cubicle door
	--	 TD300/TD500 test device	 TD300/TD500 test device	 TD300/TD500 test device

Application cases and trip unit types

The table below illustrates the broad range of applications for which different types of thermal-magnetic trip units can be used:

	<b>TM120M AM</b>	<b>TM210 FTFM</b>	<b>TM230 FTAM</b>
<b>Protection</b>			
Motor circuit protector	✓	--	--
Line protection	--	✓	✓
<b>Version available with</b>			
1-pole breaker	--	✓	--
2-pole breaker in 3-pole enclosure	--	✓	✓
3-pole breaker	✓	✓	✓
<b>Available protection parameters</b>			
$I_r$ adjustable	--	--	--
$I_i$ adjustable	✓	--	✓
$I_r$ fixed	--	✓	✓
$I_i$ fixed	--	✓	--

# Introduction

## 3VA UL Molded Case Circuit Breakers

1

### General data

#### Protection functions

	ETU310M I	ETU320 LI	ETU330 LIG	ETU350 LSI	ETU550 LSI	ETU556 LSI (G alarm)	ETU560 LSIG	ETU820 LI	ETU830 LIG	ETU850 LSI	ETU856 LSI (G alarm)	ETU860 LSIG
<b>Protection</b>												
Motor circuit protector	✓	--	--	--	--	--	--	--	--	--	--	--
Line protection	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Version available with</b>												
3-pole without external neutral current transformer	✓	✓	✓	✓	--	--	--	--	--	--	--	--
3-pole with external neutral current transformer	--	--	--	--	✓	✓	✓	✓	✓	✓	✓	✓
4-pole with protected neutral conductor transformer	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Available protection parameters</b>												
Characteristic in L range	$I^2t$	$I^2t$	$I^2t$	$I^2t$	$I^2t$	$I^2t$	$I^2t$	$I^2t$	$I^2t$	$I^2t$	$I^2t$	$I^2t$
$I_r$	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
$t_{sd}$ at $6 \times I_r$	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thermal memory	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thermal memory 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 $I^2t_{sd} / t_{sd}$	--	--	--	--	✓	✓	✓	--	--	✓	✓	✓
$I_l$	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
$I_N^{1)}$	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
$I_g$	--	--	✓	--	--	--	✓	--	✓	--	--	✓
$t_g$ 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	--	--	--	--	--	✓	--	--	--	--	✓	--
ZSI	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>Features and options</b>												
Setting by rotary switch	✓	✓	✓	✓	--	--	--	--	--	--	--	--
Setting by ETU display	--	--	--	--	✓	✓	✓	✓	✓	✓	✓	✓
Data shown on ETU display	--	--	--	--	✓	✓	✓	✓	✓	✓	✓	✓
Metering function	--	--	--	--	--	--	✓	✓	✓	✓	✓	✓
Communication option	--	--	--	--	✓	✓	✓	✓	✓	✓	✓	✓
Front interface	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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

✓ Available

-- Not available

## 3VA5 Molded Case Circuit Breakers up to 250 A, TM, 600 V, up to 100 kA



2/2	<b>Line protection</b>
2/8	<b>Motor circuit protectors</b>
2/9	<b>Molded case switches</b>
2/10	<b>Dimensional drawings</b>

Note:

All basic circuit breakers are supplied without connection technology. The available connection technology can be found in [Chapter "Accessories and Spare Parts"](#).

The scope of delivery of all basic circuit breakers includes the insulation measures required as minimum for 600 V insofar as these are not included in the scope of delivery of the connection technology.

**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](#)

## 3VA UL Molded Case Circuit Breakers

3VA5 Molded Case Circuit Breakers up to 250 A, TM, 600 V, up to 100 kA

### Line protection

#### Selection and ordering data

PU

(UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB



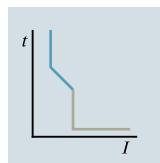
Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	Operating current of the instantaneous short-circuit protection "I" $I_i$	SD	Standard breaking capacity S, up to 25 kA at 277 V See "Overview", p. 1/6 and 1/7	(S)
A	A	A	A	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU

1-pole, fixed-mounted, suitable for DIN rail mounting, 3VA51, up to 125 A  
Thermal-magnetic trip unit



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

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



3VA51	15	15	300	<b>3VA5195-4ED11-0AA0</b>
	20	20	300	<b>3VA5120-4ED11-0AA0</b>
	25	25	300	<b>3VA5125-4ED11-0AA0</b>
	30	30	300	<b>3VA5130-4ED11-0AA0</b>
	35	35	350	<b>3VA5135-4ED11-0AA0</b>
	40	40	400	<b>3VA5140-4ED11-0AA0</b>
	45	45	450	<b>3VA5145-4ED11-0AA0</b>
	50	50	500	<b>3VA5150-4ED11-0AA0</b>
	60	60	600	<b>3VA5160-4ED11-0AA0</b>
	70	70	700	<b>3VA5170-4ED11-0AA0</b>
	80	80	800	<b>3VA5180-4ED11-0AA0</b>
	90	90	900	<b>3VA5190-4ED11-0AA0</b>
	100	100	1000	<b>3VA5110-4ED11-0AA0</b>
	110	110	1100	<b>3VA5111-4ED11-0AA0</b>
	125	125	1250	<b>3VA5112-4ED11-0AA0</b>

**3VA UL Molded Case Circuit Breakers**

3VA5 Molded Case Circuit Breakers up to 250 A, TM, 600 V, up to 100 kA

**Line protection**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>Medium breaking capacity M, up to 35 kA at 277 V</b> See "Overview", p. 1/6 and 1/7		SD	<b>High breaking capacity H, up to 50 kA at 277 V</b> See "Overview", p. 1/6 and 1/7	
		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
A	d			d		

**Line protection, 1-pole, TM210 FTFM**With fixed overload protection  $I_r$  and fixed short-circuit protection  $I_i$ 

15	<b>3VA5195-5ED11-0AA0</b>	<b>3VA5195-6ED11-0AA0</b>
20	<b>3VA5120-5ED11-0AA0</b>	<b>3VA5120-6ED11-0AA0</b>
25	<b>3VA5125-5ED11-0AA0</b>	<b>3VA5125-6ED11-0AA0</b>
30	<b>3VA5130-5ED11-0AA0</b>	<b>3VA5130-6ED11-0AA0</b>
35	<b>3VA5135-5ED11-0AA0</b>	<b>3VA5135-6ED11-0AA0</b>
40	<b>3VA5140-5ED11-0AA0</b>	<b>3VA5140-6ED11-0AA0</b>
45	<b>3VA5145-5ED11-0AA0</b>	<b>3VA5145-6ED11-0AA0</b>
50	<b>3VA5150-5ED11-0AA0</b>	<b>3VA5150-6ED11-0AA0</b>
60	<b>3VA5160-5ED11-0AA0</b>	<b>3VA5160-6ED11-0AA0</b>
70	<b>3VA5170-5ED11-0AA0</b>	<b>3VA5170-6ED11-0AA0</b>
80	<b>3VA5180-5ED11-0AA0</b>	<b>3VA5180-6ED11-0AA0</b>
90	<b>3VA5190-5ED11-0AA0</b>	<b>3VA5190-6ED11-0AA0</b>
100	<b>3VA5110-5ED11-0AA0</b>	<b>3VA5110-6ED11-0AA0</b>
110	<b>3VA5111-5ED11-0AA0</b>	<b>3VA5111-6ED11-0AA0</b>
125	<b>3VA5112-5ED11-0AA0</b>	<b>3VA5112-6ED11-0AA0</b>

## 3VA UL Molded Case Circuit Breakers

3VA5 Molded Case Circuit Breakers up to 250 A, TM, 600 V, up to 100 kA

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

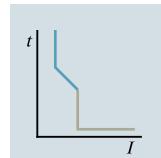
 Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	Operating current of the instantaneous short-circuit protection "I" $I_i$	SD	Standard breaking capacity S, up to 25 kA at 480 V See "Overview", p. 1/6 and 1/7	
					A	A

3-pole, fixed-mounted, suitable for DIN rail mounting, 3VA51/3VA52, up to 125 A  
Thermal-magnetic trip unit



#### Line protection, TM210 FTFM

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

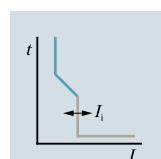


3VA51	15	15	300	3VA5195-4ED31-0AA0
	20	20	300	3VA5120-4ED31-0AA0
	25	25	300	3VA5125-4ED31-0AA0
	30	30	300	3VA5130-4ED31-0AA0
	35	35	350	3VA5135-4ED31-0AA0
	40	40	400	3VA5140-4ED31-0AA0
	45	45	450	3VA5145-4ED31-0AA0
	50	50	500	3VA5150-4ED31-0AA0
	60	60	600	3VA5160-4ED31-0AA0
	70	70	700	3VA5170-4ED31-0AA0
	80	80	800	3VA5180-4ED31-0AA0
	90	90	900	3VA5190-4ED31-0AA0
	100 <sup>1)</sup>	100	1000	3VA5110-4ED31-0AA0
	110 <sup>1)</sup>	110	1100	3VA5111-4ED31-0AA0
	125 <sup>1)</sup>	125	1250	3VA5112-4ED31-0AA0
3VA52	100	100	1000	--
	110	110	1100	--
	125	125	1250	--
	150	150	1500	--
	175	175	1750	--
	200	200	2000	--
	225	225	2250	--
	250	250	2500	--



#### Line protection, TM230 FTAM

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



3VA51	15	15	150 ... 300	3VA5195-4EC31-0AA0
	20	20	150 ... 300	3VA5120-4EC31-0AA0
	25	25	150 ... 300	3VA5125-4EC31-0AA0
	30	30	150 ... 300	3VA5130-4EC31-0AA0
	35	35	175 ... 350	3VA5135-4EC31-0AA0
	40	40	200 ... 400	3VA5140-4EC31-0AA0
	45	45	225 ... 450	3VA5145-4EC31-0AA0
	50	50	250 ... 500	3VA5150-4EC31-0AA0
	60	60	300 ... 600	3VA5160-4EC31-0AA0
	70	70	350 ... 700	3VA5170-4EC31-0AA0
	80	80	400 ... 800	3VA5180-4EC31-0AA0
	90	90	450 ... 900	3VA5190-4EC31-0AA0
	100 <sup>1)</sup>	100	500 ... 1000	3VA5110-4EC31-0AA0
	110 <sup>1)</sup>	110	550 ... 1100	3VA5111-4EC31-0AA0
	125 <sup>1)</sup>	125	625 ... 1250	3VA5112-4EC31-0AA0
3VA52	100	100	500 ... 1000	--
	110	110	550 ... 1100	--
	125	125	625 ... 1250	--
	150	150	750 ... 1500	--
	175	175	875 ... 1750	--
	200	200	1000 ... 2000	--
	225	225	1125 ... 2250	--
	250	250	1250 ... 2500	--

<sup>1)</sup> 480 Y/277 V

**3VA UL Molded Case Circuit Breakers**

3VA5 Molded Case Circuit Breakers up to 250 A, TM, 600 V, up to 100 kA

**Line protection**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(M)	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)
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	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Basic price per PU

2

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

15	<b>3VA5195-5ED31-0AA0</b>	<b>3VA5195-6ED31-0AA0</b>	--
20	<b>3VA5120-5ED31-0AA0</b>	<b>3VA5120-6ED31-0AA0</b>	--
25	<b>3VA5125-5ED31-0AA0</b>	<b>3VA5125-6ED31-0AA0</b>	--
30	<b>3VA5130-5ED31-0AA0</b>	<b>3VA5130-6ED31-0AA0</b>	--
35	<b>3VA5135-5ED31-0AA0</b>	<b>3VA5135-6ED31-0AA0</b>	--
40	<b>3VA5140-5ED31-0AA0</b>	<b>3VA5140-6ED31-0AA0</b>	--
45	<b>3VA5145-5ED31-0AA0</b>	<b>3VA5145-6ED31-0AA0</b>	--
50	<b>3VA5150-5ED31-0AA0</b>	<b>3VA5150-6ED31-0AA0</b>	--
60	<b>3VA5160-5ED31-0AA0</b>	<b>3VA5160-6ED31-0AA0</b>	--
70	<b>3VA5170-5ED31-0AA0</b>	<b>3VA5170-6ED31-0AA0</b>	--
80	<b>3VA5180-5ED31-0AA0</b>	<b>3VA5180-6ED31-0AA0</b>	--
90	<b>3VA5190-5ED31-0AA0</b>	<b>3VA5190-6ED31-0AA0</b>	--
100	<b>3VA5110-5ED31-0AA0</b>	<b>3VA5110-6ED31-0AA0</b>	--
110	<b>3VA5111-5ED31-0AA0</b>	<b>3VA5111-6ED31-0AA0</b>	--
125	<b>3VA5112-5ED31-0AA0</b>	<b>3VA5112-6ED31-0AA0</b>	--
100	<b>3VA5210-5ED31-0AA0</b>	<b>3VA5210-6ED31-0AA0</b>	<b>3VA5210-7ED31-0AA0</b>
110	<b>3VA5211-5ED31-0AA0</b>	<b>3VA5211-6ED31-0AA0</b>	<b>3VA5211-7ED31-0AA0</b>
125	<b>3VA5212-5ED31-0AA0</b>	<b>3VA5212-6ED31-0AA0</b>	<b>3VA5212-7ED31-0AA0</b>
150	<b>3VA5215-5ED31-0AA0</b>	<b>3VA5215-6ED31-0AA0</b>	<b>3VA5215-7ED31-0AA0</b>
175	<b>3VA5217-5ED31-0AA0</b>	<b>3VA5217-6ED31-0AA0</b>	<b>3VA5217-7ED31-0AA0</b>
200	<b>3VA5220-5ED31-0AA0</b>	<b>3VA5220-6ED31-0AA0</b>	<b>3VA5220-7ED31-0AA0</b>
225	<b>3VA5222-5ED31-0AA0</b>	<b>3VA5222-6ED31-0AA0</b>	<b>3VA5222-7ED31-0AA0</b>
250	<b>3VA5225-5ED31-0AA0</b>	<b>3VA5225-6ED31-0AA0</b>	<b>3VA5225-7ED31-0AA0</b>

**Line protection, TM230 FTAM**With fixed overload protection  $I_r$  and adjustable short-circuit protection  $I_i$ 

15	<b>3VA5195-5EC31-0AA0</b>	<b>3VA5195-6EC31-0AA0</b>	--
20	<b>3VA5120-5EC31-0AA0</b>	<b>3VA5120-6EC31-0AA0</b>	--
25	<b>3VA5125-5EC31-0AA0</b>	<b>3VA5125-6EC31-0AA0</b>	--
30	<b>3VA5130-5EC31-0AA0</b>	<b>3VA5130-6EC31-0AA0</b>	--
35	<b>3VA5135-5EC31-0AA0</b>	<b>3VA5135-6EC31-0AA0</b>	--
40	<b>3VA5140-5EC31-0AA0</b>	<b>3VA5140-6EC31-0AA0</b>	--
45	<b>3VA5145-5EC31-0AA0</b>	<b>3VA5145-6EC31-0AA0</b>	--
50	<b>3VA5150-5EC31-0AA0</b>	<b>3VA5150-6EC31-0AA0</b>	--
60	<b>3VA5160-5EC31-0AA0</b>	<b>3VA5160-6EC31-0AA0</b>	--
70	<b>3VA5170-5EC31-0AA0</b>	<b>3VA5170-6EC31-0AA0</b>	--
80	<b>3VA5180-5EC31-0AA0</b>	<b>3VA5180-6EC31-0AA0</b>	--
90	<b>3VA5190-5EC31-0AA0</b>	<b>3VA5190-6EC31-0AA0</b>	--
100	<b>3VA5110-5EC31-0AA0</b>	<b>3VA5110-6EC31-0AA0</b>	--
110	<b>3VA5111-5EC31-0AA0</b>	<b>3VA5111-6EC31-0AA0</b>	--
125	<b>3VA5112-5EC31-0AA0</b>	<b>3VA5112-6EC31-0AA0</b>	--
100	<b>3VA5210-5EC31-0AA0</b>	<b>3VA5210-6EC31-0AA0</b>	<b>3VA5210-7EC31-0AA0</b>
110	<b>3VA5211-5EC31-0AA0</b>	<b>3VA5211-6EC31-0AA0</b>	<b>3VA5211-7EC31-0AA0</b>
125	<b>3VA5212-5EC31-0AA0</b>	<b>3VA5212-6EC31-0AA0</b>	<b>3VA5212-7EC31-0AA0</b>
150	<b>3VA5215-5EC31-0AA0</b>	<b>3VA5215-6EC31-0AA0</b>	<b>3VA5215-7EC31-0AA0</b>
175	<b>3VA5217-5EC31-0AA0</b>	<b>3VA5217-6EC31-0AA0</b>	<b>3VA5217-7EC31-0AA0</b>
200	<b>3VA5220-5EC31-0AA0</b>	<b>3VA5220-6EC31-0AA0</b>	<b>3VA5220-7EC31-0AA0</b>
225	<b>3VA5222-5EC31-0AA0</b>	<b>3VA5222-6EC31-0AA0</b>	<b>3VA5222-7EC31-0AA0</b>
250	<b>3VA5225-5EC31-0AA0</b>	<b>3VA5225-6EC31-0AA0</b>	<b>3VA5225-7EC31-0AA0</b>

## 3VA UL Molded Case Circuit Breakers

3VA5 Molded Case Circuit Breakers up to 250 A, TM, 600 V, up to 100 kA

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

	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	Medium breaking capacity M, up to 35 kA at 480 V See "Overview", p. 1/6 and 1/7	<span style="color: orange;">M</span> Article No. <a href="http://www.siemens.com/product?Article No." style="color: blue;">www.siemens.com/product?Article No.</a> Basic price per PU
	A	A	A	A	d		

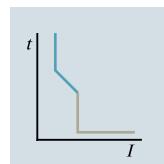
**2-pole breaker in 3-pole enclosure, fixed-mounted, 3VA52, up to 250 A**  
Thermal-magnetic trip unit



#### Line protection, TM210 FTFM

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

3VA52	100	100	1000	
	110	110	1100	
	125	125	1250	
	150	150	1500	
	175	175	1750	
	200	200	2000	
	225	225	2250	
	250	250	2500	



**3VA5210-5ED61-0AA0**  
**3VA5211-5ED61-0AA0**  
**3VA5212-5ED61-0AA0**  
**3VA5215-5ED61-0AA0**

**3VA5217-5ED61-0AA0**  
**3VA5220-5ED61-0AA0**  
**3VA5222-5ED61-0AA0**  
**3VA5225-5ED61-0AA0**

**2-pole breaker in 3-pole enclosure, fixed-mounted, 3VA52, up to 250 A**  
Thermal-magnetic trip unit



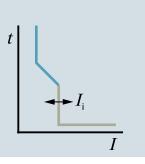
#### Line protection, TM230 FTAM

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

3VA52	100	100	500 ... 1000	
	110	110	550 ... 1100	
	125	125	625 ... 1250	
	150	150	750 ... 1500	
	175	175	875 ... 1750	
	200	200	1000 ... 2000	
	225	225	1125 ... 2250	
	250	250	1250 ... 2500	

**3VA5210-5EC61-0AA0**  
**3VA5211-5EC61-0AA0**  
**3VA5212-5EC61-0AA0**  
**3VA5215-5EC61-0AA0**

**3VA5217-5EC61-0AA0**  
**3VA5220-5EC61-0AA0**  
**3VA5222-5EC61-0AA0**  
**3VA5225-5EC61-0AA0**



**3VA UL Molded Case Circuit Breakers**

3VA5 Molded Case Circuit Breakers up to 250 A, TM, 600 V, up to 100 kA

**Line protection**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)
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

2

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

100	<b>3VA5210-6ED61-0AA0</b> 3VA5211-6ED61-0AA0 3VA5212-6ED61-0AA0 3VA5215-6ED61-0AA0	<b>3VA5210-7ED61-0AA0</b> 3VA5211-7ED61-0AA0 3VA5212-7ED61-0AA0 3VA5215-7ED61-0AA0
175 200 225 250	<b>3VA5217-6ED61-0AA0</b> 3VA5220-6ED61-0AA0 3VA5222-6ED61-0AA0 3VA5225-6ED61-0AA0	<b>3VA5217-7ED61-0AA0</b> 3VA5220-7ED61-0AA0 3VA5222-7ED61-0AA0 3VA5225-7ED61-0AA0

**Line protection, TM230 FTAM**With fixed overload protection  $I_r$  and adjustable short-circuit protection  $I_i$ 

100	<b>3VA5210-6EC61-0AA0</b> 3VA5211-6EC61-0AA0 3VA5212-6EC61-0AA0 3VA5215-6EC61-0AA0	<b>3VA5210-7EC61-0AA0</b> 3VA5211-7EC61-0AA0 3VA5212-7EC61-0AA0 3VA5215-7EC61-0AA0
175 200 225 250	<b>3VA5217-6EC61-0AA0</b> 3VA5220-6EC61-0AA0 3VA5222-6EC61-0AA0 3VA5225-6EC61-0AA0	<b>3VA5217-7EC61-0AA0</b> 3VA5220-7EC61-0AA0 3VA5222-7EC61-0AA0 3VA5225-7EC61-0AA0

## 3VA UL Molded Case Circuit Breakers

3VA5 Molded Case Circuit Breakers up to 250 A, TM, 600 V, up to 100 kA

### Motor circuit protectors

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

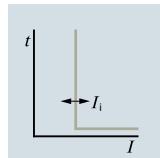
Type	Rated current $I_n$	Operating current of the instantaneous short-circuit protection "I" $I_i$	SD	<b>SCCR without contactor, 65 kA<sup>1)</sup> at 480 V</b> See "Overview", p. 1/6 and 1/7		SD	<b>SCCR without contactor, 100 kA<sup>1)</sup> at 480 V</b> See "Overview", p. 1/6 and 1/7	
				Article No. <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
	A	A	d			d		

**3-pole, fixed-mounted, 3VA51/3VA52, up to 200 A  
Magnetic trip unit**



**Motor circuit protector, TM120M AM**

With adjustable short-circuit protection  $I_i$



3VA51 Fixed-mount- ed, attach- ment to DIN rail	15	45 ... 105 75 ... 180	<b>3VA5195-1MU31-0AA0</b> <b>3VA5195-1MH31-0AA0</b>	--
	25	75 ... 175 125 ... 300	<b>3VA5125-1MU31-0AA0</b> <b>3VA5125-1MH31-0AA0</b>	--
	30	90 ... 210 150 ... 360	<b>3VA5130-1MU31-0AA0</b> <b>3VA5130-1MH31-0AA0</b>	--
	40	120 ... 280 200 ... 480	<b>3VA5140-1MU31-0AA0</b> <b>3VA5140-1MH31-0AA0</b>	--
	50	150 ... 350 250 ... 600	<b>3VA5150-1MU31-0AA0</b> <b>3VA5150-1MH31-0AA0</b>	--
	70	210 ... 490 350 ... 840	<b>3VA5170-1MU31-0AA0</b> <b>3VA5170-1MH31-0AA0</b>	--
	80	240 ... 560 400 ... 960	<b>3VA5180-1MU31-0AA0</b> <b>3VA5180-1MH31-0AA0</b>	--
	90	270 ... 630 450 ... 1080	<b>3VA5190-1MU31-0AA0</b> <b>3VA5190-1MH31-0AA0</b>	--
	100	300 ... 700 500 ... 1200	<b>3VA5110-1MU31-0AA0</b> <b>3VA5110-1MH31-0AA0</b>	--
	110	330 ... 770 550 ... 1320	<b>3VA5111-1MU31-0AA0</b> <b>3VA5111-1MH31-0AA0</b>	--
	125	375 ... 875 625 ... 1500	<b>3VA5112-1MU31-0AA0</b> <b>3VA5112-1MH31-0AA0</b>	--
3VA52 Fixed-mount- ed	150	450 ... 900 900 ... 1800	<b>3VA5215-0MU31-0AA0</b> <b>3VA5215-0MH31-0AA0</b>	<b>3VA5215-1MU31-0AA0</b> <b>3VA5215-1MH31-0AA0</b>
	200	600 ... 1200 1200 ... 2400	<b>3VA5220-0MU31-0AA0</b> <b>3VA5220-0MH31-0AA0</b>	<b>3VA5220-1MU31-0AA0</b> <b>3VA5220-1MH31-0AA0</b>

<sup>1)</sup> Breaking capacities in combination with contactors (SCCR ratings) may differ

**3VA UL Molded Case Circuit Breakers**

3VA5 Molded Case Circuit Breakers up to 250 A, TM, 600 V, up to 100 kA

**Molded case switches****Selection and ordering data**

PU (UNIT, SET, M) = 1

PS = 1 unit

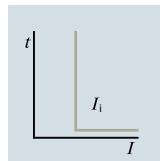
PG = 1CB



Type	Rated uninterrupted current $I_u$	Operating current of the instantaneous short-circuit protection "I"	SD	<b>SCCR 65 kA<sup>1)</sup> at 480 V</b> See "Overview", p. 1/6 and 1/7	SD	<b>SCCR 100 kA<sup>1)</sup> at 480 V</b> See "Overview", p. 1/6 and 1/7
	A	A	d		d	

**3-pole, fixed-mounted, 3VA51/3VA52, up to 250 A**

Without Electronic Trip Unit

**Molded case switches**With fixed short-circuit protection  $I_i$ , for self-protection

3VA51	100	1600	<b>3VA5110-1BB31-0AA0</b>	--
Fixed-mounted,				
attachment to				
DIN rail				
3VA52	100	2500	--	<b>3VA5210-1BB31-0AA0</b>
Fixed-mounted	150	2400	<b>3VA5215-0BB31-0AA0</b>	<b>3VA5215-1BB31-0AA0</b>
	250	2500	<b>3VA5225-0BB31-0AA0</b>	<b>3VA5225-1BB31-0AA0</b>

**2-pole breaker in 3-pole enclosure, fixed-mounted, 3VA52, up to 250 A****Molded case switches**With fixed short-circuit protection  $I_i$ , for self-protection

3VA52	100	2500	--	<b>3VA5210-1BB61-0AA0</b>
	150	2400	<b>3VA5215-0BB61-0AA0</b>	<b>3VA5215-1BB61-0AA0</b>
	250	2500	<b>3VA5225-0BB61-0AA0</b>	<b>3VA5225-1BB61-0AA0</b>

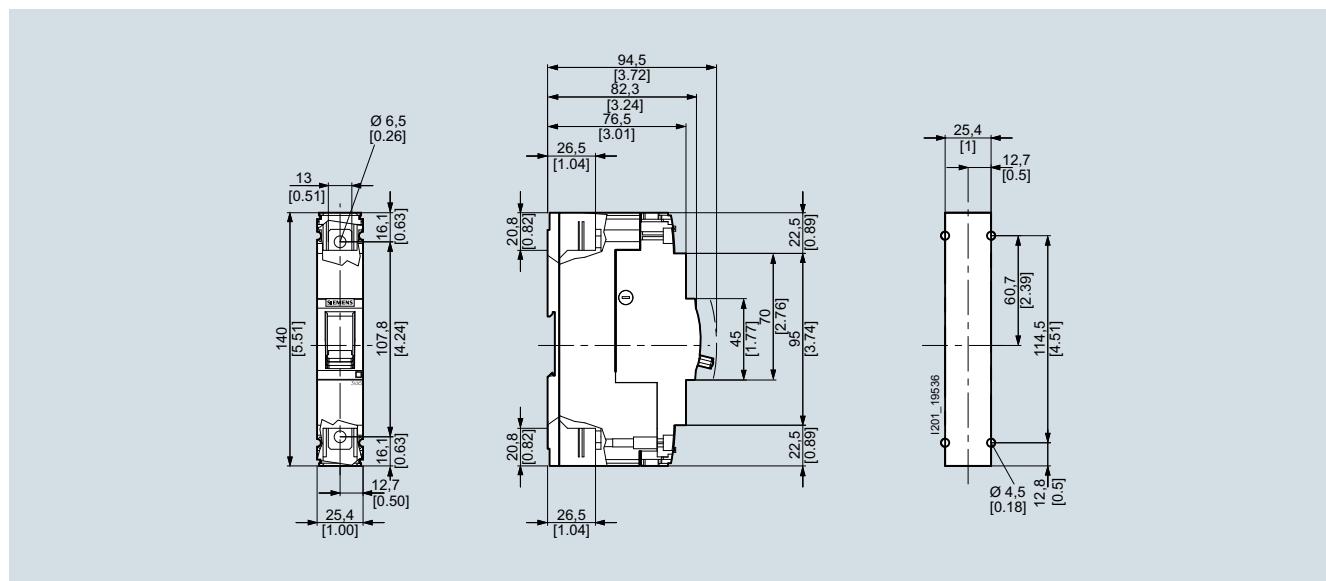
<sup>1)</sup> Breaking capacity (the SCCR rating) is the maximum permissible short-circuit current at the installation location of the MCS in combination with an appropriate overload protection device.

## 3VA UL Molded Case Circuit Breakers

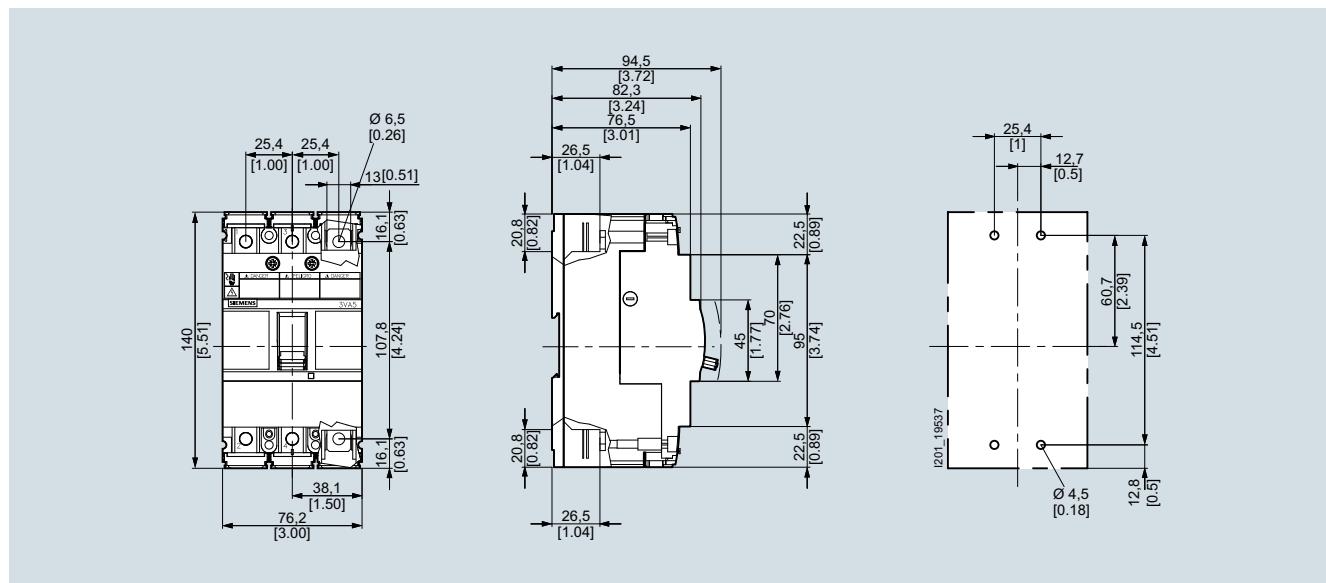
3VA5 Molded Case Circuit Breakers up to 250 A, TM, 600 V, up to 100 kA

### Dimensional drawings

#### Overview



3VA51, 1-pole



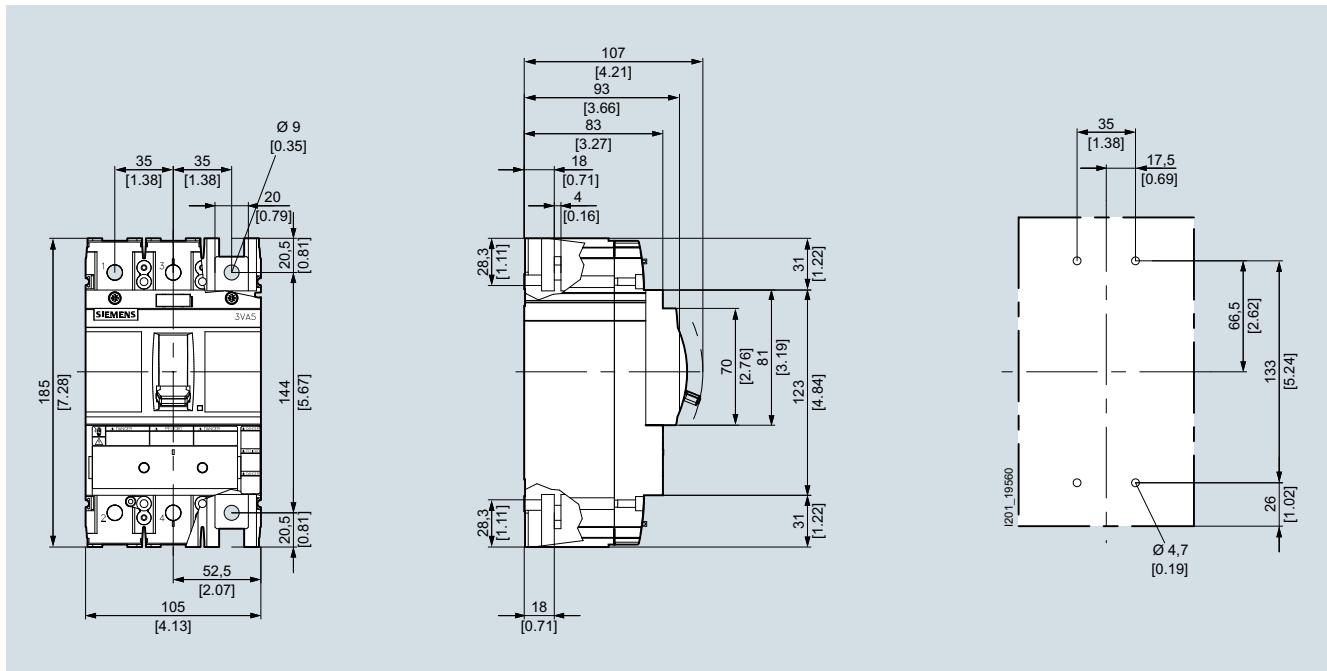
3VA51, 3-pole

# 3VA UL Molded Case Circuit Breakers

## 3VA5 Molded Case Circuit Breakers up to 250 A, TM, 600 V, up to 100 kA

### Dimensional drawings

2



3VA52, 3-pole

## 3VA UL Molded Case Circuit Breakers

3VA5 Molded Case Circuit Breakers up to 250 A, TM, 600 V, up to 100 kA

### Notes

## 3VA6 molded case circuit breakers up to 600 A, ETU, 600 V, up to 150 kA



3/2	<b>Line protection</b>
3/18	<b>Line protection, 100% rated breakers</b>
3/34	<b>Motor circuit protectors</b>
3/34	<b>Molded case switches</b>
3/35	<b>Dimensional drawings</b>
	<p><b>Note:</b> All basic circuit breakers are supplied without connection technology. The available connection technology can be found in <a href="#">Chapter "Accessories and Spare Parts"</a>. The scope of delivery of all basic circuit breakers includes the insulation measures required as minimum for 600 V insofar as these are not included in the scope of delivery of the connection technology.</p>
	<p><b>For further technical product information:</b></p> <p><a href="#">Siemens Industry Online Support</a>: <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/ product-support</a></p> <ul style="list-style-type: none"> <li>→ Entry type: Application example Certificate Characteristic Download FAQ Manual Product note Software archive Technical data</li> </ul>
	Siemens · 10/2017

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection

#### Selection and ordering data

PU (UNIT, SET, M) = 1

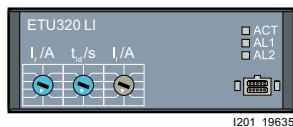
PS = 1 unit

PG = 1CB



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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(M)
A	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

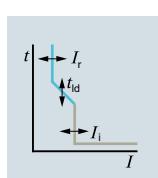
#### 3-pole, fixed-mounted, 3VA61 to 3VA64, up to 600 A Electronic Trip Unit



##### Line protection, ETU320 LI

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

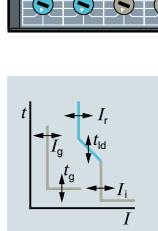
3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	60 ... 480 150 ... 1200 225 ... 1500	--	<b>3VA6140-5HL31-0AA0</b> <b>3VA6110-5HL31-0AA0</b> <b>3VA6115-5HL31-0AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	150 ... 1200 375 ... 2500	--	<b>3VA6210-5HL31-0AA0</b> <b>3VA6225-5HL31-0AA0</b>
3VA63	250 400	100 ... 250 160 ... 400	375 ... 3000 600 ... 4000	--	<b>3VA6325-5HL31-0AA0</b> <b>3VA6340-5HL31-0AA0</b>
3VA64	400 600	160 ... 400 240 ... 600	600 ... 4800 900 ... 5400	--	<b>3VA6440-5HL31-0AA0</b> <b>3VA6460-5HL31-0AA0</b>



##### Line protection, ETU330 LIG

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

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	60 ... 480 150 ... 1200 225 ... 1500	8 ... 40 20 ... 100 30 ... 150	<b>3VA6140-5HM31-0AA0</b> <b>3VA6110-5HM31-0AA0</b> <b>3VA6115-5HM31-0AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	150 ... 1200 375 ... 2500	20 ... 100 50 ... 250	<b>3VA6210-5HM31-0AA0</b> <b>3VA6225-5HM31-0AA0</b>
3VA63	250 400	100 ... 250 160 ... 400	375 ... 3000 600 ... 4000	50 ... 250 80 ... 400	<b>3VA6325-5HM31-0AA0</b> <b>3VA6340-5HM31-0AA0</b>
3VA64	400 600	160 ... 400 240 ... 600	600 ... 4800 900 ... 5400	80 ... 400 120 ... 600	<b>3VA6440-5HM31-0AA0</b> <b>3VA6460-5HM31-0AA0</b>



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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(M)
A	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

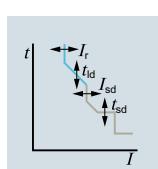
#### 3-pole, fixed-mounted, 3VA61 to 3VA64, up to 600 A Electronic Trip Unit



##### Line protection, ETU350 LSI

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

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	1.5 ... 10 1.5 ... 10 1.5 ... 10	480 1200 1500	<b>3VA6140-5HN31-0AA0</b> <b>3VA6110-5HN31-0AA0</b> <b>3VA6115-5HN31-0AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	1.5 ... 10 1.5 ... 10	1200 2500	<b>3VA6210-5HN31-0AA0</b> <b>3VA6225-5HN31-0AA0</b>
3VA63	250 400	100 ... 250 160 ... 400	1.5 ... 10 1.5 ... 10	3000 4000	<b>3VA6325-5HN31-0AA0</b> <b>3VA6340-5HN31-0AA0</b>
3VA64	400 600	160 ... 400 240 ... 600	1.5 ... 10 1.5 ... 9	4800 5400	<b>3VA6440-5HN31-0AA0</b> <b>3VA6460-5HN31-0AA0</b>



**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	High breaking capacity H, up to 65 kA at 480 V See "Overview", p. 1/6 and 1/7		SD	Very high breaking capacity C, up to 100 kA at 480 V See "Overview", p. 1/6 and 1/7		SD	Extremely high breaking capacity L, up to 150 kA at 480 V See "Overview", p. 1/6 and 1/7	
		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, ETU320 LI**With adjustable overload protection  $I_r$  and adjustable instantaneous short-circuit protection  $I_i$ 

40	<b>3VA6140-6HL31-0AA0</b> 3VA6110-6HL31-0AA0 3VA6115-6HL31-0AA0	<b>3VA6140-7HL31-0AA0</b> 3VA6110-7HL31-0AA0 3VA6115-7HL31-0AA0	<b>3VA6140-8HL31-0AA0</b> 3VA6110-8HL31-0AA0 3VA6115-8HL31-0AA0
100	<b>3VA6210-6HL31-0AA0</b> 3VA6225-6HL31-0AA0	<b>3VA6210-7HL31-0AA0</b> 3VA6225-7HL31-0AA0	<b>3VA6210-8HL31-0AA0</b> 3VA6225-8HL31-0AA0
250	<b>3VA6325-6HL31-0AA0</b> 3VA6340-6HL31-0AA0	<b>3VA6325-7HL31-0AA0</b> 3VA6340-7HL31-0AA0	<b>3VA6325-8HL31-0AA0</b> 3VA6340-8HL31-0AA0
400	<b>3VA6440-6HL31-0AA0</b> 3VA6460-6HL31-0AA0	<b>3VA6440-7HL31-0AA0</b> 3VA6460-7HL31-0AA0	<b>3VA6440-8HL31-0AA0</b> 3VA6460-8HL31-0AA0
600			

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

40	<b>3VA6140-6HM31-0AA0</b> 3VA6110-6HM31-0AA0 3VA6115-6HM31-0AA0	<b>3VA6140-7HM31-0AA0</b> 3VA6110-7HM31-0AA0 3VA6115-7HM31-0AA0	<b>3VA6140-8HM31-0AA0</b> 3VA6110-8HM31-0AA0 3VA6115-8HM31-0AA0
100	<b>3VA6210-6HM31-0AA0</b> 3VA6225-6HM31-0AA0	<b>3VA6210-7HM31-0AA0</b> 3VA6225-7HM31-0AA0	<b>3VA6210-8HM31-0AA0</b> 3VA6225-8HM31-0AA0
250	<b>3VA6325-6HM31-0AA0</b> 3VA6340-6HM31-0AA0	<b>3VA6325-7HM31-0AA0</b> 3VA6340-7HM31-0AA0	<b>3VA6325-8HM31-0AA0</b> 3VA6340-8HM31-0AA0
400	<b>3VA6440-6HM31-0AA0</b> 3VA6460-6HM31-0AA0	<b>3VA6440-7HM31-0AA0</b> 3VA6460-7HM31-0AA0	<b>3VA6440-8HM31-0AA0</b> 3VA6460-8HM31-0AA0
600			

Rated current $I_n$	SD	High breaking capacity H, up to 65 kA at 480 V See "Overview", p. 1/6 and 1/7		SD	Very high breaking capacity C, up to 100 kA at 480 V See "Overview", p. 1/6 and 1/7		SD	Extremely high breaking capacity L, up to 150 kA at 480 V See "Overview", p. 1/6 and 1/7	
		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, ETU350 LSI**With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$  and fixed instantaneous short-circuit protection  $I_i$ 

40	<b>3VA6140-6HN31-0AA0</b> 3VA6110-6HN31-0AA0 3VA6115-6HN31-0AA0	<b>3VA6140-7HN31-0AA0</b> 3VA6110-7HN31-0AA0 3VA6115-7HN31-0AA0	<b>3VA6140-8HN31-0AA0</b> 3VA6110-8HN31-0AA0 3VA6115-8HN31-0AA0
100	<b>3VA6210-6HN31-0AA0</b> 3VA6225-6HN31-0AA0	<b>3VA6210-7HN31-0AA0</b> 3VA6225-7HN31-0AA0	<b>3VA6210-8HN31-0AA0</b> 3VA6225-8HN31-0AA0
250	<b>3VA6325-6HN31-0AA0</b> 3VA6340-6HN31-0AA0	<b>3VA6325-7HN31-0AA0</b> 3VA6340-7HN31-0AA0	<b>3VA6325-8HN31-0AA0</b> 3VA6340-8HN31-0AA0
400	<b>3VA6440-6HN31-0AA0</b> 3VA6460-6HN31-0AA0	<b>3VA6440-7HN31-0AA0</b> 3VA6460-7HN31-0AA0	<b>3VA6440-8HN31-0AA0</b> 3VA6460-8HN31-0AA0
600			

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

	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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	M
	A	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

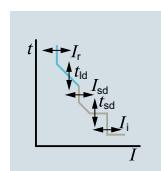
**3-pole, fixed-mounted, 3VA61 to 3VA64, up to 600 A  
Electronic Trip Unit**



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

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

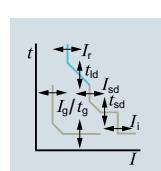
3VA61	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA6140-5JP31-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6110-5JP31-0AA0</b>
	150	60 ... 150	90 ... 1500	225 ... 1500	<b>3VA6115-5JP31-0AA0</b>
3VA62	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6210-5JP31-0AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA6225-5JP31-0AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5JP31-0AA0</b>
	400	160 ... 400	240 ... 4000	600 ... 4000	<b>3VA6340-5JP31-0AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5JP31-0AA0</b>
	600	240 ... 600	360 ... 5400	900 ... 5400	<b>3VA6460-5JP31-0AA0</b>



#### Line protection, with display, ETU556 LSI(G)

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

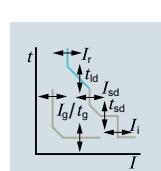
3VA61	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA6140-5JT31-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6110-5JT31-0AA0</b>
	150	60 ... 150	90 ... 1500	225 ... 1500	<b>3VA6115-5JT31-0AA0</b>
3VA62	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6210-5JT31-0AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA6225-5JT31-0AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5JT31-0AA0</b>
	400	160 ... 400	240 ... 4000	600 ... 4000	<b>3VA6340-5JT31-0AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5JT31-0AA0</b>
	600	240 ... 600	360 ... 5400	900 ... 5400	<b>3VA6460-5JT31-0AA0</b>



#### Line 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  $I_g$

3VA61	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA6140-5JQ31-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6110-5JQ31-0AA0</b>
	150	60 ... 150	90 ... 1500	225 ... 1500	<b>3VA6115-5JQ31-0AA0</b>
3VA62	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6210-5JQ31-0AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA6225-5JQ31-0AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5JQ31-0AA0</b>
	400	160 ... 400	240 ... 4000	600 ... 4000	<b>3VA6340-5JQ31-0AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5JQ31-0AA0</b>
	600	240 ... 600	360 ... 5400	900 ... 5400	<b>3VA6460-5JQ31-0AA0</b>



**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(L)
A	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/ product?</a> Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/ product?</a> Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/ product?</a> Article No.	Basic price per PU

**Line protection, with display, ETU550 LSI**With adjustable overload protection  $I_{tr}$ , adjustable delayed short-circuit protection  $I_{sd}$  and adjustable instantaneous short-circuit protection  $I_i$ 

40	<b>3VA6140-6JP31-0AA0</b> 3VA6110-6JP31-0AA0 3VA6115-6JP31-0AA0	<b>3VA6140-7JP31-0AA0</b> 3VA6110-7JP31-0AA0 3VA6115-7JP31-0AA0	<b>3VA6140-8JP31-0AA0</b> 3VA6110-8JP31-0AA0 3VA6115-8JP31-0AA0
100	<b>3VA6210-6JP31-0AA0</b> 3VA6225-6JP31-0AA0	<b>3VA6210-7JP31-0AA0</b> 3VA6225-7JP31-0AA0	<b>3VA6210-8JP31-0AA0</b> 3VA6225-8JP31-0AA0
250	<b>3VA6325-6JP31-0AA0</b> 3VA6340-6JP31-0AA0	<b>3VA6325-7JP31-0AA0</b> 3VA6340-7JP31-0AA0	<b>3VA6325-8JP31-0AA0</b> 3VA6340-8JP31-0AA0
400	<b>3VA6440-6JP31-0AA0</b> 3VA6460-6JP31-0AA0	<b>3VA6440-7JP31-0AA0</b> 3VA6460-7JP31-0AA0	<b>3VA6440-8JP31-0AA0</b> 3VA6460-8JP31-0AA0

**Line protection, with display, ETU556 LSI(G)**With adjustable overload protection  $I_{tr}$ , adjustable delayed short-circuit protection  $I_{sd}$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault alarm  $I_g$ 

40	<b>3VA6140-6JT31-0AA0</b> 3VA6110-6JT31-0AA0 3VA6115-6JT31-0AA0	<b>3VA6140-7JT31-0AA0</b> 3VA6110-7JT31-0AA0 3VA6115-7JT31-0AA0	<b>3VA6140-8JT31-0AA0</b> 3VA6110-8JT31-0AA0 3VA6115-8JT31-0AA0
100	<b>3VA6210-6JT31-0AA0</b> 3VA6225-6JT31-0AA0	<b>3VA6210-7JT31-0AA0</b> 3VA6225-7JT31-0AA0	<b>3VA6210-8JT31-0AA0</b> 3VA6225-8JT31-0AA0
250	<b>3VA6325-6JT31-0AA0</b> 3VA6340-6JT31-0AA0	<b>3VA6325-7JT31-0AA0</b> 3VA6340-7JT31-0AA0	<b>3VA6325-8JT31-0AA0</b> 3VA6340-8JT31-0AA0
400	<b>3VA6440-6JT31-0AA0</b> 3VA6460-6JT31-0AA0	<b>3VA6440-7JT31-0AA0</b> 3VA6460-7JT31-0AA0	<b>3VA6440-8JT31-0AA0</b> 3VA6460-8JT31-0AA0

**Line protection, with display, ETU560 LSIG**With adjustable overload protection  $I_{tr}$ , adjustable delayed short-circuit protection  $I_{sd}$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault protection  $I_g$ 

40	<b>3VA6140-6JQ31-0AA0</b> 3VA6110-6JQ31-0AA0 3VA6115-6JQ31-0AA0	<b>3VA6140-7JQ31-0AA0</b> 3VA6110-7JQ31-0AA0 3VA6115-7JQ31-0AA0	<b>3VA6140-8JQ31-0AA0</b> 3VA6110-8JQ31-0AA0 3VA6115-8JQ31-0AA0
100	<b>3VA6210-6JQ31-0AA0</b> 3VA6225-6JQ31-0AA0	<b>3VA6210-7JQ31-0AA0</b> 3VA6225-7JQ31-0AA0	<b>3VA6210-8JQ31-0AA0</b> 3VA6225-8JQ31-0AA0
250	<b>3VA6325-6JQ31-0AA0</b> 3VA6340-6JQ31-0AA0	<b>3VA6325-7JQ31-0AA0</b> 3VA6340-7JQ31-0AA0	<b>3VA6325-8JQ31-0AA0</b> 3VA6340-8JQ31-0AA0
400	<b>3VA6440-6JQ31-0AA0</b> 3VA6460-6JQ31-0AA0	<b>3VA6440-7JQ31-0AA0</b> 3VA6460-7JQ31-0AA0	<b>3VA6440-8JQ31-0AA0</b> 3VA6460-8JQ31-0AA0

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

	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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(M)
	A	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

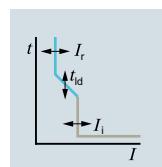
**3-pole, fixed-mounted, 3VA61 to 3VA64, up to 600 A  
Electronic Trip Unit**



#### Line protection, with display, with metering function, ETU820 LI

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

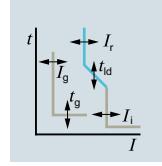
3VA61	40	16 ... 40	60 ... 480	--	<b>3VA6140-5KL31-0AA0</b>
	100	40 ... 100	150 ... 1200	--	<b>3VA6110-5KL31-0AA0</b>
	150	60 ... 150	225 ... 1500	--	<b>3VA6115-5KL31-0AA0</b>
3VA62	100	40 ... 100	150 ... 1200	--	<b>3VA6210-5KL31-0AA0</b>
	250	100 ... 250	375 ... 2500	--	<b>3VA6225-5KL31-0AA0</b>
3VA63	250	100 ... 250	375 ... 3000	--	<b>3VA6325-5KL31-0AA0</b>
	400	160 ... 400	600 ... 4000	--	<b>3VA6340-5KL31-0AA0</b>
3VA64	400	160 ... 400	600 ... 4800	--	<b>3VA6440-5KL31-0AA0</b>
	600	240 ... 600	900 ... 5400	--	<b>3VA6460-5KL31-0AA0</b>



#### Line protection, with display, with metering function, ETU830 LIG

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

3VA61	40	16 ... 40	60 ... 480	15 ... 40	<b>3VA6140-5KM31-0AA0</b>
	100	40 ... 100	150 ... 1200	20 ... 100	<b>3VA6110-5KM31-0AA0</b>
	150	60 ... 150	225 ... 1500	30 ... 150	<b>3VA6115-5KM31-0AA0</b>
3VA62	100	40 ... 100	150 ... 1200	20 ... 100	<b>3VA6210-5KM31-0AA0</b>
	250	100 ... 250	375 ... 2500	50 ... 250	<b>3VA6225-5KM31-0AA0</b>
3VA63	250	100 ... 250	375 ... 3000	50 ... 250	<b>3VA6325-5KM31-0AA0</b>
	400	160 ... 400	600 ... 4000	80 ... 400	<b>3VA6340-5KM31-0AA0</b>
3VA64	400	160 ... 400	600 ... 4800	80 ... 400	<b>3VA6440-5KM31-0AA0</b>
	600	240 ... 600	900 ... 5400	120 ... 600	<b>3VA6460-5KM31-0AA0</b>



**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(L)
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	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, with display, with metering function, ETU820 LI**With adjustable overload protection  $I_r$  and adjustable instantaneous short-circuit protection  $I_i$ 

40	<b>3VA6140-6KL31-0AA0</b> 3VA6110-6KL31-0AA0 3VA6115-6KL31-0AA0	<b>3VA6140-7KL31-0AA0</b> 3VA6110-7KL31-0AA0 3VA6115-7KL31-0AA0	<b>3VA6140-8KL31-0AA0</b> 3VA6110-8KL31-0AA0 3VA6115-8KL31-0AA0
100	<b>3VA6210-6KL31-0AA0</b> 3VA6225-6KL31-0AA0	<b>3VA6210-7KL31-0AA0</b> 3VA6225-7KL31-0AA0	<b>3VA6210-8KL31-0AA0</b> 3VA6225-8KL31-0AA0
250	<b>3VA6325-6KL31-0AA0</b> 3VA6340-6KL31-0AA0	<b>3VA6325-7KL31-0AA0</b> 3VA6340-7KL31-0AA0	<b>3VA6325-8KL31-0AA0</b> 3VA6340-8KL31-0AA0
400	<b>3VA6440-6KL31-0AA0</b> 3VA6460-6KL31-0AA0	<b>3VA6440-7KL31-0AA0</b> 3VA6460-7KL31-0AA0	<b>3VA6440-8KL31-0AA0</b> 3VA6460-8KL31-0AA0
600			

**Line protection, with display, with metering function, ETU830 LIG**With adjustable overload protection  $I_r$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault protection  $I_g$ 

40	<b>3VA6140-6KM31-0AA0</b> 3VA6110-6KM31-0AA0 3VA6115-6KM31-0AA0	<b>3VA6140-7KM31-0AA0</b> 3VA6110-7KM31-0AA0 3VA6115-7KM31-0AA0	<b>3VA6140-8KM31-0AA0</b> 3VA6110-8KM31-0AA0 3VA6115-8KM31-0AA0
100	<b>3VA6210-6KM31-0AA0</b> 3VA6225-6KM31-0AA0	<b>3VA6210-7KM31-0AA0</b> 3VA6225-7KM31-0AA0	<b>3VA6210-8KM31-0AA0</b> 3VA6225-8KM31-0AA0
250	<b>3VA6325-6KM31-0AA0</b> 3VA6340-6KM31-0AA0	<b>3VA6325-7KM31-0AA0</b> 3VA6340-7KM31-0AA0	<b>3VA6325-8KM31-0AA0</b> 3VA6340-8KM31-0AA0
400	<b>3VA6440-6KM31-0AA0</b> 3VA6460-6KM31-0AA0	<b>3VA6440-7KM31-0AA0</b> 3VA6460-7KM31-0AA0	<b>3VA6440-8KM31-0AA0</b> 3VA6460-8KM31-0AA0
600			

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

	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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(M)
	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	

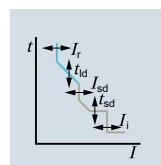
**3-pole, fixed-mounted, 3VA61 to 3VA64, up to 600 A  
Electronic Trip Unit**



#### Line 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  $I_i$

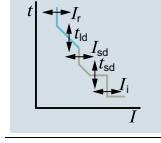
3VA61	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA6140-5KP31-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6110-5KP31-0AA0</b>
	150	60 ... 150	90 ... 1500	225 ... 1500	<b>3VA6115-5KP31-0AA0</b>
3VA62	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6210-5KP31-0AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA6225-5KP31-0AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5KP31-0AA0</b>
	400	160 ... 400	240 ... 4000	600 ... 4000	<b>3VA6340-5KP31-0AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5KP31-0AA0</b>
	600	240 ... 600	360 ... 5400	900 ... 5400	<b>3VA6460-5KP31-0AA0</b>



#### Line protection, with display, with metering function, ETU856 LS(G)

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

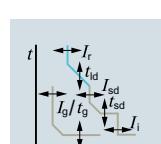
3VA61	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA6140-5KT31-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6110-5KT31-0AA0</b>
	150	60 ... 150	90 ... 1500	225 ... 1500	<b>3VA6115-5KT31-0AA0</b>
3VA62	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6210-5KT31-0AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA6225-5KT31-0AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5KT31-0AA0</b>
	400	160 ... 400	240 ... 4000	600 ... 4000	<b>3VA6340-5KT31-0AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5KT31-0AA0</b>
	600	240 ... 600	360 ... 5400	900 ... 5400	<b>3VA6460-5KT31-0AA0</b>



#### Line protection, with display, with metering function, ETU860 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  $I_g$

3VA61	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA6140-5KQ31-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6110-5KQ31-0AA0</b>
	150	60 ... 150	90 ... 1500	225 ... 1500	<b>3VA6115-5KQ31-0AA0</b>
3VA62	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6210-5KQ31-0AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA6225-5KQ31-0AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5KQ31-0AA0</b>
	400	160 ... 400	240 ... 4000	600 ... 4000	<b>3VA6340-5KQ31-0AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5KQ31-0AA0</b>
	600	240 ... 600	360 ... 5400	900 ... 5400	<b>3VA6460-5KQ31-0AA0</b>



**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(L)
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	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, with display, with metering function, ETU850 LS**With adjustable overload protection  $I_{tr}$ , adjustable delayed short-circuit protection  $I_{sd}$  and adjustable instantaneous short-circuit protection  $I_i$ 

40	<b>3VA6140-6KP31-0AA0</b> 3VA6110-6KP31-0AA0 3VA6115-6KP31-0AA0	3VA6140-7KP31-0AA0 3VA6110-7KP31-0AA0 3VA6115-7KP31-0AA0	3VA6140-8KP31-0AA0 3VA6110-8KP31-0AA0 3VA6115-8KP31-0AA0
100	<b>3VA6210-6KP31-0AA0</b> 3VA6225-6KP31-0AA0	3VA6210-7KP31-0AA0 3VA6225-7KP31-0AA0	3VA6210-8KP31-0AA0 3VA6225-8KP31-0AA0
250	<b>3VA6325-6KP31-0AA0</b> 3VA6340-6KP31-0AA0	3VA6325-7KP31-0AA0 3VA6340-7KP31-0AA0	3VA6325-8KP31-0AA0 3VA6340-8KP31-0AA0
400	<b>3VA6440-6KP31-0AA0</b> 3VA6460-6KP31-0AA0	3VA6440-7KP31-0AA0 3VA6460-7KP31-0AA0	3VA6440-8KP31-0AA0 3VA6460-8KP31-0AA0

**Line protection, with display, with metering function, ETU856 LS(G)**With adjustable overload protection  $I_{tr}$ , adjustable delayed short-circuit protection  $I_{sd}$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault alarm  $I_g$ 

40	<b>3VA6140-6KT31-0AA0</b> 3VA6110-6KT31-0AA0 3VA6115-6KT31-0AA0	3VA6140-7KT31-0AA0 3VA6110-7KT31-0AA0 3VA6115-7KT31-0AA0	3VA6140-8KT31-0AA0 3VA6110-8KT31-0AA0 3VA6115-8KT31-0AA0
100	<b>3VA6210-6KT31-0AA0</b> 3VA6225-6KT31-0AA0	3VA6210-7KT31-0AA0 3VA6225-7KT31-0AA0	3VA6210-8KT31-0AA0 3VA6225-8KT31-0AA0
250	<b>3VA6325-6KT31-0AA0</b> 3VA6340-6KT31-0AA0	3VA6325-7KT31-0AA0 3VA6340-7KT31-0AA0	3VA6325-8KT31-0AA0 3VA6340-8KT31-0AA0
400	<b>3VA6440-6KT31-0AA0</b> 3VA6460-6KT31-0AA0	3VA6440-7KT31-0AA0 3VA6460-7KT31-0AA0	3VA6440-8KT31-0AA0 3VA6460-8KT31-0AA0

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

40	<b>3VA6140-6KQ31-0AA0</b> 3VA6110-6KQ31-0AA0 3VA6115-6KQ31-0AA0	3VA6140-7KQ31-0AA0 3VA6110-7KQ31-0AA0 3VA6115-7KQ31-0AA0	3VA6140-8KQ31-0AA0 3VA6110-8KQ31-0AA0 3VA6115-8KQ31-0AA0
100	<b>3VA6210-6KQ31-0AA0</b> 3VA6225-6KQ31-0AA0	3VA6210-7KQ31-0AA0 3VA6225-7KQ31-0AA0	3VA6210-8KQ31-0AA0 3VA6225-8KQ31-0AA0
250	<b>3VA6325-6KQ31-0AA0</b> 3VA6340-6KQ31-0AA0	3VA6325-7KQ31-0AA0 3VA6340-7KQ31-0AA0	3VA6325-8KQ31-0AA0 3VA6340-8KQ31-0AA0
400	<b>3VA6440-6KQ31-0AA0</b> 3VA6460-6KQ31-0AA0	3VA6440-7KQ31-0AA0 3VA6460-7KQ31-0AA0	3VA6440-8KQ31-0AA0 3VA6460-8KQ31-0AA0

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection

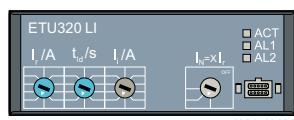
PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(M)
	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

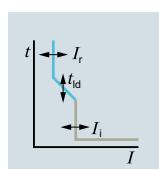
**4-pole, fixed-mounted, 3VA61 to 3VA64, up to 600 A  
Electronic Trip Unit**



#### 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%

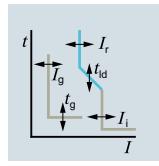
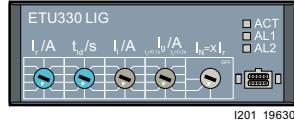
3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	60 ... 480 150 ... 1200 225 ... 1500	--	<b>3VA6140-5HL41-0AA0</b> <b>3VA6110-5HL41-0AA0</b> <b>3VA6115-5HL41-0AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	150 ... 1200 375 ... 2500	--	<b>3VA6210-5HL41-0AA0</b> <b>3VA6225-5HL41-0AA0</b>
3VA63	250 400	100 ... 250 160 ... 400	375 ... 3000 600 ... 4000	--	<b>3VA6325-5HL41-0AA0</b> <b>3VA6340-5HL41-0AA0</b>
3VA64	400 600	160 ... 400 240 ... 600	600 ... 4800 900 ... 5400	--	<b>3VA6440-5HL41-0AA0</b> <b>3VA6460-5HL41-0AA0</b>



#### Line protection, ETU330 LIG

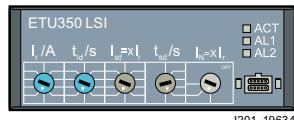
With adjustable overload protection  $I_r$ , adjustable instantaneous short-circuit protection  $I_i$ , with neutral protection against overload and short circuit 0%, 50% or 100% and adjustable ground-fault protection  $I_g$

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	60 ... 480 150 ... 1200 225 ... 1500	8 ... 40 20 ... 100 30 ... 150	<b>3VA6140-5HM41-0AA0</b> <b>3VA6110-5HM41-0AA0</b> <b>3VA6115-5HM41-0AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	150 ... 1200 375 ... 2500	20 ... 100 50 ... 250	<b>3VA6210-5HM41-0AA0</b> <b>3VA6225-5HM41-0AA0</b>
3VA63	250 400	100 ... 250 160 ... 400	375 ... 3000 600 ... 4000	50 ... 250 80 ... 400	<b>3VA6325-5HM41-0AA0</b> <b>3VA6340-5HM41-0AA0</b>
3VA64	400 600	160 ... 400 240 ... 600	600 ... 4800 900 ... 5400	80 ... 400 120 ... 600	<b>3VA6440-5HM41-0AA0</b> <b>3VA6460-5HM41-0AA0</b>



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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(M)
	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

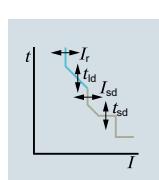
**4-pole, fixed-mounted, 3VA61 to 3VA64, up to 600 A  
Electronic Trip Unit**



#### Line protection, ETU350 LSI

With adjustable overload protection  $I_r$ , adjustable instantaneous short-circuit protection  $I_i$ , and fixed instantaneous short-circuit protection  $I_{sd}$ , with neutral protection against overload and short circuit 0%, 50% or 100%

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	1.5 ... 10 1.5 ... 10 1.5 ... 10	480 1200 1500	<b>3VA6140-5HN41-0AA0</b> <b>3VA6110-5HN41-0AA0</b> <b>3VA6115-5HN41-0AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	1.5 ... 10 1.5 ... 10	1200 2500	<b>3VA6210-5HN41-0AA0</b> <b>3VA6225-5HN41-0AA0</b>
3VA63	250 400	100 ... 250 160 ... 400	1.5 ... 10 1.5 ... 10	3000 4000	<b>3VA6325-5HN41-0AA0</b> <b>3VA6340-5HN41-0AA0</b>
3VA64	400 600	160 ... 400 240 ... 600	1.5 ... 10 1.5 ... 9	4800 5400	<b>3VA6440-5HN41-0AA0</b> <b>3VA6460-5HN41-0AA0</b>



**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(L)
A	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU

**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%

40	<b>3VA6140-6HL41-0AA0</b> 3VA6110-6HL41-0AA0 3VA6115-6HL41-0AA0	<b>3VA6140-7HL41-0AA0</b> 3VA6110-7HL41-0AA0 3VA6115-7HL41-0AA0	<b>3VA6140-8HL41-0AA0</b> 3VA6110-8HL41-0AA0 3VA6115-8HL41-0AA0
100	<b>3VA6210-6HL41-0AA0</b> 3VA6225-6HL41-0AA0	<b>3VA6210-7HL41-0AA0</b> 3VA6225-7HL41-0AA0	<b>3VA6210-8HL41-0AA0</b> 3VA6225-8HL41-0AA0
250	<b>3VA6325-6HL41-0AA0</b> 3VA6340-6HL41-0AA0	<b>3VA6325-7HL41-0AA0</b> 3VA6340-7HL41-0AA0	<b>3VA6325-8HL41-0AA0</b> 3VA6340-8HL41-0AA0
400	<b>3VA6440-6HL41-0AA0</b> 3VA6460-6HL41-0AA0	<b>3VA6440-7HL41-0AA0</b> 3VA6460-7HL41-0AA0	<b>3VA6440-8HL41-0AA0</b> 3VA6460-8HL41-0AA0

**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%  
and adjustable ground-fault protection  $I_g$

40	<b>3VA6140-6HM41-0AA0</b> 3VA6110-6HM41-0AA0 3VA6115-6HM41-0AA0	<b>3VA6140-7HM41-0AA0</b> 3VA6110-7HM41-0AA0 3VA6115-7HM41-0AA0	<b>3VA6140-8HM41-0AA0</b> 3VA6110-8HM41-0AA0 3VA6115-8HM41-0AA0
100	<b>3VA6210-6HM41-0AA0</b> 3VA6225-6HM41-0AA0	<b>3VA6210-7HM41-0AA0</b> 3VA6225-7HM41-0AA0	<b>3VA6210-8HM41-0AA0</b> 3VA6225-8HM41-0AA0
250	<b>3VA6325-6HM41-0AA0</b> 3VA6340-6HM41-0AA0	<b>3VA6325-7HM41-0AA0</b> 3VA6340-7HM41-0AA0	<b>3VA6325-8HM41-0AA0</b> 3VA6340-8HM41-0AA0
400	<b>3VA6440-6HM41-0AA0</b> 3VA6460-6HM41-0AA0	<b>3VA6440-7HM41-0AA0</b> 3VA6460-7HM41-0AA0	<b>3VA6440-8HM41-0AA0</b> 3VA6460-8HM41-0AA0

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(L)
A	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU

**Line protection, ETU350 LSI**

With adjustable overload protection  $I_r$ , adjustable instantaneous 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%

40	<b>3VA6140-6HN41-0AA0</b> 3VA6110-6HN41-0AA0 3VA6115-6HN41-0AA0	<b>3VA6140-7HN41-0AA0</b> 3VA6110-7HN41-0AA0 3VA6115-7HN41-0AA0	<b>3VA6140-8HN41-0AA0</b> 3VA6110-8HN41-0AA0 3VA6115-8HN41-0AA0
100	<b>3VA6210-6HN41-0AA0</b> 3VA6225-6HN41-0AA0	<b>3VA6210-7HN41-0AA0</b> 3VA6225-7HN41-0AA0	<b>3VA6210-8HN41-0AA0</b> 3VA6225-8HN41-0AA0
250	<b>3VA6325-6HN41-0AA0</b> 3VA6340-6HN41-0AA0	<b>3VA6325-7HN41-0AA0</b> 3VA6340-7HN41-0AA0	<b>3VA6325-8HN41-0AA0</b> 3VA6340-8HN41-0AA0
400	<b>3VA6440-6HN41-0AA0</b> 3VA6460-6HN41-0AA0	<b>3VA6440-7HN41-0AA0</b> 3VA6460-7HN41-0AA0	<b>3VA6440-8HN41-0AA0</b> 3VA6460-8HN41-0AA0

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

	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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	<b>(M)</b> 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	A	d				

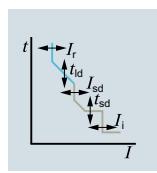
**4-pole, fixed-mounted, 3VA61 to 3VA64, up to 600 A  
Electronic Trip Unit**



#### Line 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%

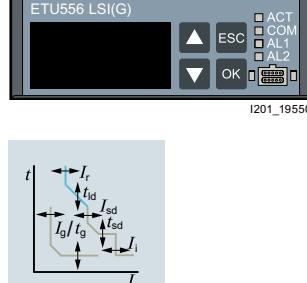
3VA61	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA6140-5JP41-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6110-5JP41-0AA0</b>
	150	60 ... 150	90 ... 1500	225 ... 1500	<b>3VA6115-5JP41-0AA0</b>
3VA62	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6210-5JP41-0AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA6225-5JP41-0AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5JP41-0AA0</b>
	400	160 ... 400	240 ... 4000	600 ... 4000	<b>3VA6340-5JP41-0AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5JP41-0AA0</b>
	600	240 ... 600	360 ... 5400	900 ... 5400	<b>3VA6460-5JP41-0AA0</b>



#### Line protection, with display, ETU556 LSI(G)

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

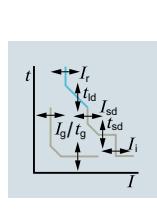
3VA61	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA6140-5JT41-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6110-5JT41-0AA0</b>
	150	60 ... 150	90 ... 1500	225 ... 1500	<b>3VA6115-5JT41-0AA0</b>
3VA62	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6210-5JT41-0AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA6225-5JT41-0AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5JT41-0AA0</b>
	400	160 ... 400	240 ... 4000	600 ... 4000	<b>3VA6340-5JT41-0AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5JT41-0AA0</b>
	600	240 ... 600	360 ... 5400	900 ... 5400	<b>3VA6460-5JT41-0AA0</b>



#### Line 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  $I_g$

3VA61	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA6140-5JQ41-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6110-5JQ41-0AA0</b>
	150	60 ... 150	90 ... 1500	225 ... 1500	<b>3VA6115-5JQ41-0AA0</b>
3VA62	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6210-5JQ41-0AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA6225-5JQ41-0AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5JQ41-0AA0</b>
	400	160 ... 400	240 ... 4000	600 ... 4000	<b>3VA6340-5JQ41-0AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5JQ41-0AA0</b>
	600	240 ... 600	360 ... 5400	900 ... 5400	<b>3VA6460-5JQ41-0AA0</b>



**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7 	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7 	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7 	
A	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/product</a> ?Article No.	Basic price per PU	Article No. <a href="http://www.siemens.com/product">www.siemens.com/product</a> ?Article No.	Basic price per PU	Article No. <a href="http://www.siemens.com/product">www.siemens.com/product</a> ?Article No.	Basic price per PU

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

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

40	<b>3VA6140-6JP41-0AA0</b>	<b>3VA6140-7JP41-0AA0</b>	<b>3VA6140-8JP41-0AA0</b>
100	<b>3VA6110-6JP41-0AA0</b>	<b>3VA6110-7JP41-0AA0</b>	<b>3VA6110-8JP41-0AA0</b>
150	<b>3VA6115-6JP41-0AA0</b>	<b>3VA6115-7JP41-0AA0</b>	<b>3VA6115-8JP41-0AA0</b>
100	<b>3VA6210-6JP41-0AA0</b>	<b>3VA6210-7JP41-0AA0</b>	<b>3VA6210-8JP41-0AA0</b>
250	<b>3VA6225-6JP41-0AA0</b>	<b>3VA6225-7JP41-0AA0</b>	<b>3VA6225-8JP41-0AA0</b>
250	<b>3VA6325-6JP41-0AA0</b>	<b>3VA6325-7JP41-0AA0</b>	<b>3VA6325-8JP41-0AA0</b>
400	<b>3VA6340-6JP41-0AA0</b>	<b>3VA6340-7JP41-0AA0</b>	<b>3VA6340-8JP41-0AA0</b>
400	<b>3VA6440-6JP41-0AA0</b>	<b>3VA6440-7JP41-0AA0</b>	<b>3VA6440-8JP41-0AA0</b>
600	<b>3VA6460-6JP41-0AA0</b>	<b>3VA6460-7JP41-0AA0</b>	<b>3VA6460-8JP41-0AA0</b>

**Line protection, with display, ETU556 LSI(G)**

With adjustable overload protection  $I_{\text{tr}}$ , adjustable delayed short-circuit protection  $I_{\text{sd}}$ , adjustable instantaneous short-circuit protection  $I_{\text{i}}$  and adjustable ground-fault alarm  $I_g$

40	<b>3VA6140-6JT41-0AA0</b>	<b>3VA6140-7JT41-0AA0</b>	<b>3VA6140-8JT41-0AA0</b>
100	<b>3VA6110-6JT41-0AA0</b>	<b>3VA6110-7JT41-0AA0</b>	<b>3VA6110-8JT41-0AA0</b>
150	<b>3VA6115-6JT41-0AA0</b>	<b>3VA6115-7JT41-0AA0</b>	<b>3VA6115-8JT41-0AA0</b>
100	<b>3VA6210-6JT41-0AA0</b>	<b>3VA6210-7JT41-0AA0</b>	<b>3VA6210-8JT41-0AA0</b>
250	<b>3VA6225-6JT41-0AA0</b>	<b>3VA6225-7JT41-0AA0</b>	<b>3VA6225-8JT41-0AA0</b>
250	<b>3VA6325-6JT41-0AA0</b>	<b>3VA6325-7JT41-0AA0</b>	<b>3VA6325-8JT41-0AA0</b>
400	<b>3VA6340-6JT41-0AA0</b>	<b>3VA6340-7JT41-0AA0</b>	<b>3VA6340-8JT41-0AA0</b>
400	<b>3VA6440-6JT41-0AA0</b>	<b>3VA6440-7JT41-0AA0</b>	<b>3VA6440-8JT41-0AA0</b>
600	<b>3VA6460-6JT41-0AA0</b>	<b>3VA6460-7JT41-0AA0</b>	<b>3VA6460-8JT41-0AA0</b>

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

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

40	<b>3VA6140-6JQ41-0AA0</b>	<b>3VA6140-7JQ41-0AA0</b>	<b>3VA6140-8JQ41-0AA0</b>
100	<b>3VA6110-6JQ41-0AA0</b>	<b>3VA6110-7JQ41-0AA0</b>	<b>3VA6110-8JQ41-0AA0</b>
150	<b>3VA6115-6JQ41-0AA0</b>	<b>3VA6115-7JQ41-0AA0</b>	<b>3VA6115-8JQ41-0AA0</b>
100	<b>3VA6210-6JQ41-0AA0</b>	<b>3VA6210-7JQ41-0AA0</b>	<b>3VA6210-8JQ41-0AA0</b>
250	<b>3VA6225-6JQ41-0AA0</b>	<b>3VA6225-7JQ41-0AA0</b>	<b>3VA6225-8JQ41-0AA0</b>
250	<b>3VA6325-6JQ41-0AA0</b>	<b>3VA6325-7JQ41-0AA0</b>	<b>3VA6325-8JQ41-0AA0</b>
400	<b>3VA6340-6JQ41-0AA0</b>	<b>3VA6340-7JQ41-0AA0</b>	<b>3VA6340-8JQ41-0AA0</b>
400	<b>3VA6440-6JQ41-0AA0</b>	<b>3VA6440-7JQ41-0AA0</b>	<b>3VA6440-8JQ41-0AA0</b>
600	<b>3VA6460-6JQ41-0AA0</b>	<b>3VA6460-7JQ41-0AA0</b>	<b>3VA6460-8JQ41-0AA0</b>

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection

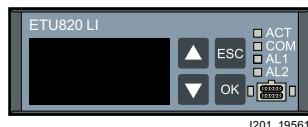
PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

	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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(M)
	A	A	A	A	d	Article No. <a href="http://www.siemens.com/product?Article&gt;No">www.siemens.com/product?Article&gt;No</a>	Basic price per PU	

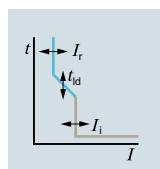
**4-pole, fixed-mounted, 3VA61 to 3VA64, up to 600 A  
Electronic Trip Unit**



#### Line protection, with display, with metering function, ETU820 LI

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

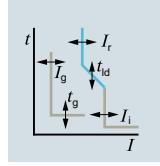
3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	60 ... 480 150 ... 1200 225 ... 1500	-- -- --	<b>3VA6140-5KL41-0AA0</b> <b>3VA6110-5KL41-0AA0</b> <b>3VA6115-5KL41-0AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	150 ... 1200 375 ... 2500	-- --	<b>3VA6210-5KL41-0AA0</b> <b>3VA6225-5KL41-0AA0</b>
3VA63	250 400	100 ... 250 160 ... 400	375 ... 3000 600 ... 4000	-- --	<b>3VA6325-5KL41-0AA0</b> <b>3VA6340-5KL41-0AA0</b>
3VA64	400 600	160 ... 400 240 ... 600	600 ... 4800 900 ... 5400	-- --	<b>3VA6440-5KL41-0AA0</b> <b>3VA6460-5KL41-0AA0</b>



#### Line protection, with display, with metering function, ETU830 LIG

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

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	60 ... 480 150 ... 1200 225 ... 1500	15 ... 40 20 ... 100 30 ... 150	<b>3VA6140-5KM41-0AA0</b> <b>3VA6110-5KM41-0AA0</b> <b>3VA6115-5KM41-0AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	150 ... 1200 375 ... 2500	20 ... 100 50 ... 250	<b>3VA6210-5KM41-0AA0</b> <b>3VA6225-5KM41-0AA0</b>
3VA63	250 400	100 ... 250 160 ... 400	375 ... 3000 600 ... 4000	50 ... 250 80 ... 400	<b>3VA6325-5KM41-0AA0</b> <b>3VA6340-5KM41-0AA0</b>
3VA64	400 600	160 ... 400 240 ... 600	600 ... 4800 900 ... 5400	80 ... 400 120 ... 600	<b>3VA6440-5KM41-0AA0</b> <b>3VA6460-5KM41-0AA0</b>



**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(L)
A	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU

**Line protection, with display, with metering function, ETU820 LI**With adjustable overload protection  $I_r$  and adjustable instantaneous short-circuit protection  $I_i$ 

40	<b>3VA6140-6KL41-0AA0</b> 3VA6110-6KL41-0AA0 3VA6115-6KL41-0AA0	<b>3VA6140-7KL41-0AA0</b> 3VA6110-7KL41-0AA0 3VA6115-7KL41-0AA0	<b>3VA6140-8KL41-0AA0</b> 3VA6110-8KL41-0AA0 3VA6115-8KL41-0AA0
100	<b>3VA6210-6KL41-0AA0</b> 3VA6225-6KL41-0AA0	<b>3VA6210-7KL41-0AA0</b> 3VA6225-7KL41-0AA0	<b>3VA6210-8KL41-0AA0</b> 3VA6225-8KL41-0AA0
250	<b>3VA6325-6KL41-0AA0</b> 3VA6340-6KL41-0AA0	<b>3VA6325-7KL41-0AA0</b> 3VA6340-7KL41-0AA0	<b>3VA6325-8KL41-0AA0</b> 3VA6340-8KL41-0AA0
400	<b>3VA6440-6KL41-0AA0</b> 3VA6460-6KL41-0AA0	<b>3VA6440-7KL41-0AA0</b> 3VA6460-7KL41-0AA0	<b>3VA6440-8KL41-0AA0</b> 3VA6460-8KL41-0AA0

**Line protection, with display, with metering function, ETU830 LIG**With adjustable overload protection  $I_r$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault protection  $I_g$ 

40	<b>3VA6140-6KM41-0AA0</b> 3VA6110-6KM41-0AA0 3VA6115-6KM41-0AA0	<b>3VA6140-7KM41-0AA0</b> 3VA6110-7KM41-0AA0 3VA6115-7KM41-0AA0	<b>3VA6140-8KM41-0AA0</b> 3VA6110-8KM41-0AA0 3VA6115-8KM41-0AA0
100	<b>3VA6210-6KM41-0AA0</b> 3VA6225-6KM41-0AA0	<b>3VA6210-7KM41-0AA0</b> 3VA6225-7KM41-0AA0	<b>3VA6210-8KM41-0AA0</b> 3VA6225-8KM41-0AA0
250	<b>3VA6325-6KM41-0AA0</b> 3VA6340-6KM41-0AA0	<b>3VA6325-7KM41-0AA0</b> 3VA6340-7KM41-0AA0	<b>3VA6325-8KM41-0AA0</b> 3VA6340-8KM41-0AA0
400	<b>3VA6440-6KM41-0AA0</b> 3VA6460-6KM41-0AA0	<b>3VA6440-7KM41-0AA0</b> 3VA6460-7KM41-0AA0	<b>3VA6440-8KM41-0AA0</b> 3VA6460-8KM41-0AA0

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

	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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b>	
	A						A	

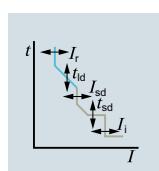
**4-pole, fixed-mounted, 3VA61 to 3VA64, up to 600 A**  
Electronic Trip Unit



#### Line 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%

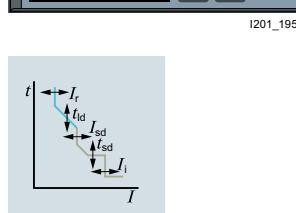
3VA61	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA6140-5KP41-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6110-5KP41-0AA0</b>
	150	60 ... 150	90 ... 1500	225 ... 1500	<b>3VA6115-5KP41-0AA0</b>
3VA62	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6210-5KP41-0AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA6225-5KP41-0AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5KP41-0AA0</b>
	400	160 ... 400	240 ... 4000	600 ... 4000	<b>3VA6340-5KP41-0AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5KP41-0AA0</b>
	600	240 ... 600	360 ... 5400	900 ... 5400	<b>3VA6460-5KP41-0AA0</b>



#### Line protection, with display, with metering function, ETU856 LS(G)

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

3VA61	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA6140-5KT41-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6110-5KT41-0AA0</b>
	150	60 ... 150	90 ... 1500	225 ... 1500	<b>3VA6115-5KT41-0AA0</b>
3VA62	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6210-5KT41-0AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA6225-5KT41-0AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5KT41-0AA0</b>
	400	160 ... 400	240 ... 4000	600 ... 4000	<b>3VA6340-5KT41-0AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5KT41-0AA0</b>
	600	240 ... 600	360 ... 5400	900 ... 5400	<b>3VA6460-5KT41-0AA0</b>



#### Line 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  $I_g$

3VA61	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA6140-5KQ41-0AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6110-5KQ41-0AA0</b>
	150	60 ... 150	90 ... 1500	225 ... 1500	<b>3VA6115-5KQ41-0AA0</b>
3VA62	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6210-5KQ41-0AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA6225-5KQ41-0AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5KQ41-0AA0</b>
	400	160 ... 400	240 ... 4000	600 ... 4000	<b>3VA6340-5KQ41-0AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5KQ41-0AA0</b>
	600	240 ... 600	360 ... 5400	900 ... 5400	<b>3VA6460-5KQ41-0AA0</b>



**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(L)
A	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU

**Line protection, with display, with metering function, ETU850 LS**

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

40	<b>3VA6140-6KP41-0AA0</b>	<b>3VA6140-7KP41-0AA0</b>	<b>3VA6140-8KP41-0AA0</b>
100	<b>3VA6110-6KP41-0AA0</b>	<b>3VA6110-7KP41-0AA0</b>	<b>3VA6110-8KP41-0AA0</b>
150	<b>3VA6115-6KP41-0AA0</b>	<b>3VA6115-7KP41-0AA0</b>	<b>3VA6115-8KP41-0AA0</b>
100	<b>3VA6210-6KP41-0AA0</b>	<b>3VA6210-7KP41-0AA0</b>	<b>3VA6210-8KP41-0AA0</b>
250	<b>3VA6225-6KP41-0AA0</b>	<b>3VA6225-7KP41-0AA0</b>	<b>3VA6225-8KP41-0AA0</b>
250	<b>3VA6325-6KP41-0AA0</b>	<b>3VA6325-7KP41-0AA0</b>	<b>3VA6325-8KP41-0AA0</b>
400	<b>3VA6340-6KP41-0AA0</b>	<b>3VA6340-7KP41-0AA0</b>	<b>3VA6340-8KP41-0AA0</b>
400	<b>3VA6440-6KP41-0AA0</b>	<b>3VA6440-7KP41-0AA0</b>	<b>3VA6440-8KP41-0AA0</b>
600	<b>3VA6460-6KP41-0AA0</b>	<b>3VA6460-7KP41-0AA0</b>	<b>3VA6460-8KP41-0AA0</b>

**Line protection, with display, with metering function, ETU856 LS(G)**

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

40	<b>3VA6140-6KT41-0AA0</b>	<b>3VA6140-7KT41-0AA0</b>	<b>3VA6140-8KT41-0AA0</b>
100	<b>3VA6110-6KT41-0AA0</b>	<b>3VA6110-7KT41-0AA0</b>	<b>3VA6110-8KT41-0AA0</b>
150	<b>3VA6115-6KT41-0AA0</b>	<b>3VA6115-7KT41-0AA0</b>	<b>3VA6115-8KT41-0AA0</b>
100	<b>3VA6210-6KT41-0AA0</b>	<b>3VA6210-7KT41-0AA0</b>	<b>3VA6210-8KT41-0AA0</b>
250	<b>3VA6225-6KT41-0AA0</b>	<b>3VA6225-7KT41-0AA0</b>	<b>3VA6225-8KT41-0AA0</b>
250	<b>3VA6325-6KT41-0AA0</b>	<b>3VA6325-7KT41-0AA0</b>	<b>3VA6325-8KT41-0AA0</b>
400	<b>3VA6340-6KT41-0AA0</b>	<b>3VA6340-7KT41-0AA0</b>	<b>3VA6340-8KT41-0AA0</b>
400	<b>3VA6440-6KT41-0AA0</b>	<b>3VA6440-7KT41-0AA0</b>	<b>3VA6440-8KT41-0AA0</b>
600	<b>3VA6460-6KT41-0AA0</b>	<b>3VA6460-7KT41-0AA0</b>	<b>3VA6460-8KT41-0AA0</b>

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

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

40	<b>3VA6140-6KQ41-0AA0</b>	<b>3VA6140-7KQ41-0AA0</b>	<b>3VA6140-8KQ41-0AA0</b>
100	<b>3VA6110-6KQ41-0AA0</b>	<b>3VA6110-7KQ41-0AA0</b>	<b>3VA6110-8KQ41-0AA0</b>
150	<b>3VA6115-6KQ41-0AA0</b>	<b>3VA6115-7KQ41-0AA0</b>	<b>3VA6115-8KQ41-0AA0</b>
100	<b>3VA6210-6KQ41-0AA0</b>	<b>3VA6210-7KQ41-0AA0</b>	<b>3VA6210-8KQ41-0AA0</b>
250	<b>3VA6225-6KQ41-0AA0</b>	<b>3VA6225-7KQ41-0AA0</b>	<b>3VA6225-8KQ41-0AA0</b>
250	<b>3VA6325-6KQ41-0AA0</b>	<b>3VA6325-7KQ41-0AA0</b>	<b>3VA6325-8KQ41-0AA0</b>
400	<b>3VA6340-6KQ41-0AA0</b>	<b>3VA6340-7KQ41-0AA0</b>	<b>3VA6340-8KQ41-0AA0</b>
400	<b>3VA6440-6KQ41-0AA0</b>	<b>3VA6440-7KQ41-0AA0</b>	<b>3VA6440-8KQ41-0AA0</b>
600	<b>3VA6460-6KQ41-0AA0</b>	<b>3VA6460-7KQ41-0AA0</b>	<b>3VA6460-8KQ41-0AA0</b>

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection, 100 % rated breakers

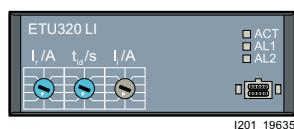
PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(M)
	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

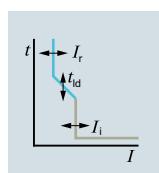
**3-pole, fixed-mounted, 100 % rated, 3VA61 to 3VA64, up to 400 A<sup>1)</sup>**  
**Electronic Trip Unit**



#### Line protection, ETU320 LI

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

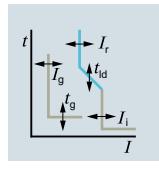
3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	60 ... 480 150 ... 1200 225 ... 1500	-- -- --	<b>3VA6140-5HL31-2AA0</b> <b>3VA6110-5HL31-2AA0</b> <b>3VA6115-5HL31-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	150 ... 1200 375 ... 2500	-- --	<b>3VA6210-5HL31-2AA0</b> <b>3VA6225-5HL31-2AA0</b>
3VA63	250	100 ... 250	375 ... 3000	--	<b>3VA6325-5HL31-2AA0</b>
3VA64	400	160 ... 400	600 ... 4800	--	<b>3VA6440-5HL31-2AA0</b>



#### Line protection, ETU330 LIG

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

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	60 ... 480 150 ... 1200 225 ... 1500	8 ... 40 20 ... 100 30 ... 150	<b>3VA6140-5HM31-2AA0</b> <b>3VA6110-5HM31-2AA0</b> <b>3VA6115-5HM31-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	150 ... 1200 375 ... 2500	20 ... 100 50 ... 250	<b>3VA6210-5HM31-2AA0</b> <b>3VA6225-5HM31-2AA0</b>
3VA63	250	100 ... 250	375 ... 3000	50 ... 250	<b>3VA6325-5HM31-2AA0</b>
3VA64	400	160 ... 400	600 ... 4800	80 ... 400	<b>3VA6440-5HM31-2AA0</b>

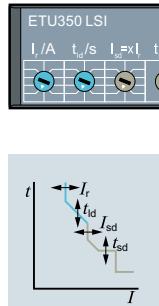


#### Line protection, ETU350 LSI

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

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	1.5 ... 10 1.5 ... 10 1.5 ... 10	480 1200 1500	<b>3VA6140-5HN31-2AA0</b> <b>3VA6110-5HN31-2AA0</b> <b>3VA6115-5HN31-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	1.5 ... 10 1.5 ... 10	1200 2500	<b>3VA6210-5HN31-2AA0</b> <b>3VA6225-5HN31-2AA0</b>
3VA63	250	100 ... 250	1.5 ... 10	3000	<b>3VA6325-5HN31-2AA0</b>
3VA64	400	160 ... 400	1.5 ... 10	4800	<b>3VA6440-5HN31-2AA0</b>

**3-pole, fixed-mounted, 100 % rated, 3VA61 to 3VA64, up to 400 A<sup>1)</sup>**  
**Electronic Trip Unit**



<sup>1)</sup> 3VA6 molded case circuit breakers are supplied without connection technology. Pay attention to page 4/22 when selecting suitable connection technology.

**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection, 100 % rated breakers**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(L)
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	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, ETU320 LI**With adjustable overload protection  $I_r$  and adjustable instantaneous short-circuit protection  $I_i$ 

40	<b>3VA6140-6HL31-2AA0</b>	<b>3VA6140-7HL31-2AA0</b>	<b>3VA6140-8HL31-2AA0</b>
100	<b>3VA6110-6HL31-2AA0</b>	<b>3VA6110-7HL31-2AA0</b>	<b>3VA6110-8HL31-2AA0</b>
150	<b>3VA6115-6HL31-2AA0</b>	<b>3VA6115-7HL31-2AA0</b>	<b>3VA6115-8HL31-2AA0</b>
100	<b>3VA6210-6HL31-2AA0</b>	<b>3VA6210-7HL31-2AA0</b>	<b>3VA6210-8HL31-2AA0</b>
250	<b>3VA6225-6HL31-2AA0</b>	<b>3VA6225-7HL31-2AA0</b>	<b>3VA6225-8HL31-2AA0</b>
250	<b>3VA6325-6HL31-2AA0</b>	<b>3VA6325-7HL31-2AA0</b>	<b>3VA6325-8HL31-2AA0</b>
400	<b>3VA6440-6HL31-2AA0</b>	<b>3VA6440-7HL31-2AA0</b>	<b>3VA6440-8HL31-2AA0</b>

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

40	<b>3VA6140-6HM31-2AA0</b>	<b>3VA6140-7HM31-2AA0</b>	<b>3VA6140-8HM31-2AA0</b>
100	<b>3VA6110-6HM31-2AA0</b>	<b>3VA6110-7HM31-2AA0</b>	<b>3VA6110-8HM31-2AA0</b>
150	<b>3VA6115-6HM31-2AA0</b>	<b>3VA6115-7HM31-2AA0</b>	<b>3VA6115-8HM31-2AA0</b>
100	<b>3VA6210-6HM31-2AA0</b>	<b>3VA6210-7HM31-2AA0</b>	<b>3VA6210-8HM31-2AA0</b>
250	<b>3VA6225-6HM31-2AA0</b>	<b>3VA6225-7HM31-2AA0</b>	<b>3VA6225-8HM31-2AA0</b>
250	<b>3VA6325-6HM31-2AA0</b>	<b>3VA6325-7HM31-2AA0</b>	<b>3VA6325-8HM31-2AA0</b>
400	<b>3VA6440-6HM31-2AA0</b>	<b>3VA6440-7HM31-2AA0</b>	<b>3VA6440-8HM31-2AA0</b>

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(L)
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	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, ETU350 LSI**With adjustable overload protection  $I_r$ , adjustable delayed short-circuit protection  $I_{sd}$  and fixed instantaneous short-circuit protection  $I_i$ 

40	<b>3VA6140-6HN31-2AA0</b>	<b>3VA6140-7HN31-2AA0</b>	<b>3VA6140-8HN31-2AA0</b>
100	<b>3VA6110-6HN31-2AA0</b>	<b>3VA6110-7HN31-2AA0</b>	<b>3VA6110-8HN31-2AA0</b>
150	<b>3VA6115-6HN31-2AA0</b>	<b>3VA6115-7HN31-2AA0</b>	<b>3VA6115-8HN31-2AA0</b>
100	<b>3VA6210-6HN31-2AA0</b>	<b>3VA6210-7HN31-2AA0</b>	<b>3VA6210-8HN31-2AA0</b>
250	<b>3VA6225-6HN31-2AA0</b>	<b>3VA6225-7HN31-2AA0</b>	<b>3VA6225-8HN31-2AA0</b>
250	<b>3VA6325-6HN31-2AA0</b>	<b>3VA6325-7HN31-2AA0</b>	<b>3VA6325-8HN31-2AA0</b>
400	<b>3VA6440-6HN31-2AA0</b>	<b>3VA6440-7HN31-2AA0</b>	<b>3VA6440-8HN31-2AA0</b>

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection, 100 % rated breakers

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

	Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_f$	S function (short-time delayed short-circuit protection "S") $I_{sd}$	Operating current of the instantaneous short-circuit protection "I" $I_i$	SD	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	<b>(M)</b> 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	A	A	d			

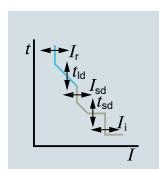
**3-pole, fixed-mounted, 100 % rated, 3VA61 to 3VA64, up to 400 A<sup>1)</sup>**  
Electronic Trip Unit



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

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

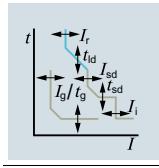
3VA61	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA6140-5JP31-2AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6110-5JP31-2AA0</b>
	150	60 ... 150	90 ... 1500	225 ... 1500	<b>3VA6115-5JP31-2AA0</b>
3VA62	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6210-5JP31-2AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA6225-5JP31-2AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5JP31-2AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5JP31-2AA0</b>



#### Line protection, with display, ETU556 LSI(G)

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

3VA61	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA6140-5JT31-2AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6110-5JT31-2AA0</b>
	150	60 ... 150	90 ... 1500	225 ... 1500	<b>3VA6115-5JT31-2AA0</b>
3VA62	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6210-5JT31-2AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA6225-5JT31-2AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5JT31-2AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5JT31-2AA0</b>



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

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

3VA61	40	16 ... 40	24 ... 400	60 ... 480	<b>3VA6140-5JQ31-2AA0</b>
	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6110-5JQ31-2AA0</b>
	150	60 ... 150	90 ... 1500	225 ... 1500	<b>3VA6115-5JQ31-2AA0</b>
3VA62	100	40 ... 100	60 ... 1000	150 ... 1200	<b>3VA6210-5JQ31-2AA0</b>
	250	100 ... 250	150 ... 2500	375 ... 2500	<b>3VA6225-5JQ31-2AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5JQ31-2AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5JQ31-2AA0</b>

<sup>1)</sup> 3VA6 molded case circuit breakers are supplied without connection technology. Pay attention to page 4/22 when selecting suitable connection technology.

**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection, 100 % rated breakers**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(L)
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	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, with display, ETU550 LSI**With adjustable overload protection  $I_{tr}$ , adjustable delayed short-circuit protection  $I_{sd}$  and adjustable instantaneous short-circuit protection  $I_i$ 

40	<b>3VA6140-6JP31-2AA0</b> 3VA6110-6JP31-2AA0 3VA6115-6JP31-2AA0	<b>3VA6140-7JP31-2AA0</b> 3VA6110-7JP31-2AA0 3VA6115-7JP31-2AA0	<b>3VA6140-8JP31-2AA0</b> 3VA6110-8JP31-2AA0 3VA6115-8JP31-2AA0
100	<b>3VA6210-6JP31-2AA0</b> 3VA6225-6JP31-2AA0	<b>3VA6210-7JP31-2AA0</b> 3VA6225-7JP31-2AA0	<b>3VA6210-8JP31-2AA0</b> 3VA6225-8JP31-2AA0
250	<b>3VA6325-6JP31-2AA0</b>	<b>3VA6325-7JP31-2AA0</b>	<b>3VA6325-8JP31-2AA0</b>
400	<b>3VA6440-6JP31-2AA0</b>	<b>3VA6440-7JP31-2AA0</b>	<b>3VA6440-8JP31-2AA0</b>

**Line protection, with display, ETU556 LSI(G)**With adjustable overload protection  $I_{tr}$ , adjustable delayed short-circuit protection  $I_{sd}$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault alarm  $I_g$ 

40	<b>3VA6140-6JT31-2AA0</b> 3VA6110-6JT31-2AA0 3VA6115-6JT31-2AA0	<b>3VA6140-7JT31-2AA0</b> 3VA6110-7JT31-2AA0 3VA6115-7JT31-2AA0	<b>3VA6140-8JT31-2AA0</b> 3VA6110-8JT31-2AA0 3VA6115-8JT31-2AA0
100	<b>3VA6210-6JT31-2AA0</b> 3VA6225-6JT31-2AA0	<b>3VA6210-7JT31-2AA0</b> 3VA6225-7JT31-2AA0	<b>3VA6210-8JT31-2AA0</b> 3VA6225-8JT31-2AA0
250	<b>3VA6325-6JT31-2AA0</b>	<b>3VA6325-7JT31-2AA0</b>	<b>3VA6325-8JT31-2AA0</b>
400	<b>3VA6440-6JT31-2AA0</b>	<b>3VA6440-7JT31-2AA0</b>	<b>3VA6440-8JT31-2AA0</b>

**Line protection, with display, ETU560 LSIG**With adjustable overload protection  $I_{tr}$ , adjustable delayed short-circuit protection  $I_{sd}$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault protection  $I_g$ 

40	<b>3VA6140-6JQ31-2AA0</b> 3VA6110-6JQ31-2AA0 3VA6115-6JQ31-2AA0	<b>3VA6140-7JQ31-2AA0</b> 3VA6110-7JQ31-2AA0 3VA6115-7JQ31-2AA0	<b>3VA6140-8JQ31-2AA0</b> 3VA6110-8JQ31-2AA0 3VA6115-8JQ31-2AA0
100	<b>3VA6210-6JQ31-2AA0</b> 3VA6225-6JQ31-2AA0	<b>3VA6210-7JQ31-2AA0</b> 3VA6225-7JQ31-2AA0	<b>3VA6210-8JQ31-2AA0</b> 3VA6225-8JQ31-2AA0
250	<b>3VA6325-6JQ31-2AA0</b>	<b>3VA6325-7JQ31-2AA0</b>	<b>3VA6325-8JQ31-2AA0</b>
400	<b>3VA6440-6JQ31-2AA0</b>	<b>3VA6440-7JQ31-2AA0</b>	<b>3VA6440-8JQ31-2AA0</b>

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection, 100 % rated breakers

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

	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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(M)
	A	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

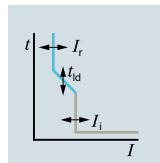
**3-pole, fixed-mounted, 100 % rated, 3VA61 to 3VA64, up to 400 A<sup>1)</sup>**  
**Electronic Trip Unit**



#### Line protection, with display, with metering function, ETU820 LI

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

3VA61	40	16 ... 40	60 ... 480	--	<b>3VA6140-5KL31-2AA0</b>
	100	40 ... 100	150 ... 1200	--	<b>3VA6110-5KL31-2AA0</b>
	150	60 ... 150	225 ... 1500	--	<b>3VA6115-5KL31-2AA0</b>
3VA62	100	40 ... 100	150 ... 1200	--	<b>3VA6210-5KL31-2AA0</b>
	250	100 ... 250	375 ... 2500	--	<b>3VA6225-5KL31-2AA0</b>
3VA63	250	100 ... 250	375 ... 3000	--	<b>3VA6325-5KL31-2AA0</b>
3VA64	400	160 ... 400	600 ... 4800	--	<b>3VA6440-5KL31-2AA0</b>



#### Line protection, with display, with metering function, ETU830 LIG

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

3VA61	40	16 ... 40	60 ... 480	15 ... 40	<b>3VA6140-5KM31-2AA0</b>
	100	40 ... 100	150 ... 1200	20 ... 100	<b>3VA6110-5KM31-2AA0</b>
	150	60 ... 150	225 ... 1500	30 ... 150	<b>3VA6115-5KM31-2AA0</b>
3VA62	100	40 ... 100	150 ... 1200	20 ... 100	<b>3VA6210-5KM31-2AA0</b>
	250	100 ... 250	375 ... 2500	50 ... 250	<b>3VA6225-5KM31-2AA0</b>
3VA63	250	100 ... 250	375 ... 3000	50 ... 250	<b>3VA6325-5KM31-2AA0</b>
3VA64	400	160 ... 400	600 ... 4800	80 ... 400	<b>3VA6440-5KM31-2AA0</b>

<sup>1)</sup> 3VA6 molded case circuit breakers are supplied without connection technology. Pay attention to page 4/22 when selecting suitable connection technology.

**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection, 100 % rated breakers**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(L)
A	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU

**Line protection, with display, with metering function, ETU820 LI**With adjustable overload protection  $I_r$  and adjustable instantaneous short-circuit protection  $I_i$ 

40	<b>3VA6140-6KL31-2AA0</b> 3VA6110-6KL31-2AA0 3VA6115-6KL31-2AA0	<b>3VA6140-7KL31-2AA0</b> 3VA6110-7KL31-2AA0 3VA6115-7KL31-2AA0	<b>3VA6140-8KL31-2AA0</b> 3VA6110-8KL31-2AA0 3VA6115-8KL31-2AA0
100	<b>3VA6210-6KL31-2AA0</b> 3VA6225-6KL31-2AA0	<b>3VA6210-7KL31-2AA0</b> 3VA6225-7KL31-2AA0	<b>3VA6210-8KL31-2AA0</b> 3VA6225-8KL31-2AA0
250	<b>3VA6325-6KL31-2AA0</b>	<b>3VA6325-7KL31-2AA0</b>	<b>3VA6325-8KL31-2AA0</b>
400	<b>3VA6440-6KL31-2AA0</b>	<b>3VA6440-7KL31-2AA0</b>	<b>3VA6440-8KL31-2AA0</b>

**Line protection, with display, with metering function, ETU830 LIG**With adjustable overload protection  $I_r$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault protection  $I_g$ 

40	<b>3VA6140-6KM31-2AA0</b> 3VA6110-6KM31-2AA0 3VA6115-6KM31-2AA0	<b>3VA6140-7KM31-2AA0</b> 3VA6110-7KM31-2AA0 3VA6115-7KM31-2AA0	<b>3VA6140-8KM31-2AA0</b> 3VA6110-8KM31-2AA0 3VA6115-8KM31-2AA0
100	<b>3VA6210-6KM31-2AA0</b> 3VA6225-6KM31-2AA0	<b>3VA6210-7KM31-2AA0</b> 3VA6225-7KM31-2AA0	<b>3VA6210-8KM31-2AA0</b> 3VA6225-8KM31-2AA0
250	<b>3VA6325-6KM31-2AA0</b>	<b>3VA6325-7KM31-2AA0</b>	<b>3VA6325-8KM31-2AA0</b>
400	<b>3VA6440-6KM31-2AA0</b>	<b>3VA6440-7KM31-2AA0</b>	<b>3VA6440-8KM31-2AA0</b>

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection, 100 % rated breakers

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b>	
						See "Overview", p. 1/6 and 1/7	(M)
	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

3-pole, fixed-mounted, 100 % rated, **3VA61 to 3VA64, up to 400 A<sup>1)</sup>**

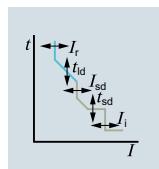
Electronic Trip Unit



#### Line 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  $I_i$

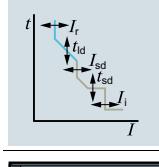
3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	24 ... 400 60 ... 1000 90 ... 1500	60 ... 480 150 ... 1200 225 ... 1500	<b>3VA6140-5KP31-2AA0</b> <b>3VA6110-5KP31-2AA0</b> <b>3VA6115-5KP31-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	60 ... 1000 150 ... 2500	150 ... 1200 375 ... 2500	<b>3VA6210-5KP31-2AA0</b> <b>3VA6225-5KP31-2AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5KP31-2AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5KP31-2AA0</b>



#### Line protection, with display, with metering function, ETU856 LS(G)

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

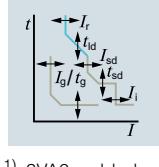
3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	24 ... 400 60 ... 1000 90 ... 1500	60 ... 480 150 ... 1200 225 ... 1500	<b>3VA6140-5KT31-2AA0</b> <b>3VA6110-5KT31-2AA0</b> <b>3VA6115-5KT31-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	60 ... 1000 150 ... 2500	150 ... 1200 375 ... 2500	<b>3VA6210-5KT31-2AA0</b> <b>3VA6225-5KT31-2AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5KT31-2AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5KT31-2AA0</b>



#### Line protection, with display, with metering function, ETU860 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  $I_g$

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	24 ... 400 60 ... 1000 90 ... 1500	60 ... 480 150 ... 1200 225 ... 1500	<b>3VA6140-5KQ31-2AA0</b> <b>3VA6110-5KQ31-2AA0</b> <b>3VA6115-5KQ31-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	60 ... 1000 150 ... 2500	150 ... 1200 375 ... 2500	<b>3VA6210-5KQ31-2AA0</b> <b>3VA6225-5KQ31-2AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5KQ31-2AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5KQ31-2AA0</b>



<sup>1)</sup> 3VA6 molded case circuit breakers are supplied without connection technology. Pay attention to page 4/22 when selecting suitable connection technology.

**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection, 100 % rated breakers**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(L)
A	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/product</a> ?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/product</a> ?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/product</a> ?Article No.	Basic price per PU

**Line protection, with display, with metering function, ETU850 LS**With adjustable overload protection  $I_{tr}$ , adjustable delayed short-circuit protection  $I_{sd}$  and adjustable instantaneous short-circuit protection  $I_i$ 

40	<b>3VA6140-6KP31-2AA0</b> 3VA6110-6KP31-2AA0 3VA6115-6KP31-2AA0	<b>3VA6140-7KP31-2AA0</b> 3VA6110-7KP31-2AA0 3VA6115-7KP31-2AA0	<b>3VA6140-8KP31-2AA0</b> 3VA6110-8KP31-2AA0 3VA6115-8KP31-2AA0
100	<b>3VA6210-6KP31-2AA0</b> 3VA6225-6KP31-2AA0	<b>3VA6210-7KP31-2AA0</b> 3VA6225-7KP31-2AA0	<b>3VA6210-8KP31-2AA0</b> 3VA6225-8KP31-2AA0
250	<b>3VA6325-6KP31-2AA0</b>	<b>3VA6325-7KP31-2AA0</b>	<b>3VA6325-8KP31-2AA0</b>
400	<b>3VA6440-6KP31-2AA0</b>	<b>3VA6440-7KP31-2AA0</b>	<b>3VA6440-8KP31-2AA0</b>

**Line protection, with display, with metering function, ETU856 LS(G)**With adjustable overload protection  $I_{tr}$ , adjustable delayed short-circuit protection  $I_{sd}$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault alarm  $I_g$ 

40	<b>3VA6140-6KT31-2AA0</b> 3VA6110-6KT31-2AA0 3VA6115-6KT31-2AA0	<b>3VA6140-7KT31-2AA0</b> 3VA6110-7KT31-2AA0 3VA6115-7KT31-2AA0	<b>3VA6140-8KT31-2AA0</b> 3VA6110-8KT31-2AA0 3VA6115-8KT31-2AA0
100	<b>3VA6210-6KT31-2AA0</b> 3VA6225-6KT31-2AA0	<b>3VA6210-7KT31-2AA0</b> 3VA6225-7KT31-2AA0	<b>3VA6210-8KT31-2AA0</b> 3VA6225-8KT31-2AA0
250	<b>3VA6325-6KT31-2AA0</b>	<b>3VA6325-7KT31-2AA0</b>	<b>3VA6325-8KT31-2AA0</b>
400	<b>3VA6440-6KT31-2AA0</b>	<b>3VA6440-7KT31-2AA0</b>	<b>3VA6440-8KT31-2AA0</b>

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

40	<b>3VA6140-6KQ31-2AA0</b> 3VA6110-6KQ31-2AA0 3VA6115-6KQ31-2AA0	<b>3VA6140-7KQ31-2AA0</b> 3VA6110-7KQ31-2AA0 3VA6115-7KQ31-2AA0	<b>3VA6140-8KQ31-2AA0</b> 3VA6110-8KQ31-2AA0 3VA6115-8KQ31-2AA0
100	<b>3VA6210-6KQ31-2AA0</b> 3VA6225-6KQ31-2AA0	<b>3VA6210-7KQ31-2AA0</b> 3VA6225-7KQ31-2AA0	<b>3VA6210-8KQ31-2AA0</b> 3VA6225-8KQ31-2AA0
250	<b>3VA6325-6KQ31-2AA0</b>	<b>3VA6325-7KQ31-2AA0</b>	<b>3VA6325-8KQ31-2AA0</b>
400	<b>3VA6440-6KQ31-2AA0</b>	<b>3VA6440-7KQ31-2AA0</b>	<b>3VA6440-8KQ31-2AA0</b>

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection, 100 % rated breakers

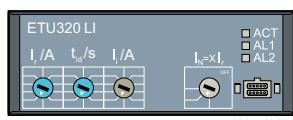
PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(M)
	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

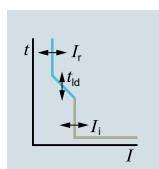
**4-pole, fixed-mounted, 100 % rated, 3VA61 to 3VA64, up to 400 A<sup>1)</sup>**  
Electronic Trip Unit



#### 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%

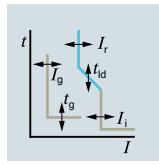
3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	60 ... 480 150 ... 1200 225 ... 1500	-- -- --	<b>3VA6140-5HL41-2AA0</b> <b>3VA6110-5HL41-2AA0</b> <b>3VA6115-5HL41-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	150 ... 1200 375 ... 2500	-- --	<b>3VA6210-5HL41-2AA0</b> <b>3VA6225-5HL41-2AA0</b>
3VA63	250	100 ... 250	375 ... 3000	--	<b>3VA6325-5HL41-2AA0</b>
3VA64	400	160 ... 400	600 ... 4800	--	<b>3VA6440-5HL41-2AA0</b>



#### Line protection, ETU330 LIG

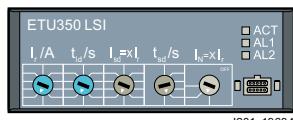
With adjustable overload protection  $I_r$ , adjustable instantaneous short-circuit protection  $I_i$ , with neutral protection against overload and short circuit 0%, 50% or 100% and adjustable ground-fault protection  $I_g$

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	60 ... 480 150 ... 1200 225 ... 1500	8 ... 40 20 ... 100 30 ... 150	<b>3VA6140-5HM41-2AA0</b> <b>3VA6110-5HM41-2AA0</b> <b>3VA6115-5HM41-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	150 ... 1200 375 ... 2500	20 ... 100 50 ... 250	<b>3VA6210-5HM41-2AA0</b> <b>3VA6225-5HM41-2AA0</b>
3VA63	250	100 ... 250	375 ... 3000	50 ... 250	<b>3VA6325-5HM41-2AA0</b>
3VA64	400	160 ... 400	600 ... 4800	80 ... 400	<b>3VA6440-5HM41-2AA0</b>



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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(M)
	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, 100 % rated, 3VA61 to 3VA64, up to 400 A<sup>1)</sup>**  
Electronic Trip Unit



#### Line protection, ETU350 LSI

With adjustable overload protection  $I_r$ , adjustable instantaneous short-circuit protection  $I_i$ , and fixed instantaneous short-circuit protection  $I_{sd}$ , with neutral protection against overload and short circuit 0%, 50% or 100%

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	1.5 ... 10 1.5 ... 10 1.5 ... 10	480 1200 1500	<b>3VA6140-5HN41-2AA0</b> <b>3VA6110-5HN41-2AA0</b> <b>3VA6115-5HN41-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	1.5 ... 10 1.5 ... 10	1200 2500	<b>3VA6210-5HN41-2AA0</b> <b>3VA6225-5HN41-2AA0</b>
3VA63	250	100 ... 250	1.5 ... 10	3000	<b>3VA6325-5HN41-2AA0</b>
3VA64	400	160 ... 400	1.5 ... 10	4800	<b>3VA6440-5HN41-2AA0</b>

<sup>1)</sup> 3VA6 molded case circuit breakers are supplied without connection technology. Pay attention to page 4/22 when selecting suitable connection technology.

**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection, 100 % rated breakers**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(L)
A	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU

**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%

40	<b>3VA6140-6HL41-2AA0</b> 3VA6110-6HL41-2AA0 3VA6115-6HL41-2AA0	<b>3VA6140-7HL41-2AA0</b> 3VA6110-7HL41-2AA0 3VA6115-7HL41-2AA0	<b>3VA6140-8HL41-2AA0</b> 3VA6110-8HL41-2AA0 3VA6115-8HL41-2AA0
100	<b>3VA6210-6HL41-2AA0</b> 3VA6225-6HL41-2AA0	<b>3VA6210-7HL41-2AA0</b> 3VA6225-7HL41-2AA0	<b>3VA6210-8HL41-2AA0</b> 3VA6225-8HL41-2AA0
250	<b>3VA6325-6HL41-2AA0</b>	<b>3VA6325-7HL41-2AA0</b>	<b>3VA6325-8HL41-2AA0</b>
400	<b>3VA6440-6HL41-2AA0</b>	<b>3VA6440-7HL41-2AA0</b>	<b>3VA6440-8HL41-2AA0</b>

**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%  
and adjustable ground-fault protection  $I_g$

40	<b>3VA6140-6HM41-2AA0</b> 3VA6110-6HM41-2AA0 3VA6115-6HM41-2AA0	<b>3VA6140-7HM41-2AA0</b> 3VA6110-7HM41-2AA0 3VA6115-7HM41-2AA0	<b>3VA6140-8HM41-2AA0</b> 3VA6110-8HM41-2AA0 3VA6115-8HM41-2AA0
100	<b>3VA6210-6HM41-2AA0</b> 3VA6225-6HM41-2AA0	<b>3VA6210-7HM41-2AA0</b> 3VA6225-7HM41-2AA0	<b>3VA6210-8HM41-2AA0</b> 3VA6225-8HM41-2AA0
250	<b>3VA6325-6HM41-2AA0</b>	<b>3VA6325-7HM41-2AA0</b>	<b>3VA6325-8HM41-2AA0</b>
400	<b>3VA6440-6HM41-2AA0</b>	<b>3VA6440-7HM41-2AA0</b>	<b>3VA6440-8HM41-2AA0</b>

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(L)
A	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU

**Line protection, ETU350 LSI**

With adjustable overload protection  $I_r$ , adjustable instantaneous 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%

40	<b>3VA6140-6HN41-2AA0</b> 3VA6110-6HN41-2AA0 3VA6115-6HN41-2AA0	<b>3VA6140-7HN41-2AA0</b> 3VA6110-7HN41-2AA0 3VA6115-7HN41-2AA0	<b>3VA6140-8HN41-2AA0</b> 3VA6110-8HN41-2AA0 3VA6115-8HN41-2AA0
100	<b>3VA6210-6HN41-2AA0</b> 3VA6225-6HN41-2AA0	<b>3VA6210-7HN41-2AA0</b> 3VA6225-7HN41-2AA0	<b>3VA6210-8HN41-2AA0</b> 3VA6225-8HN41-2AA0
250	<b>3VA6325-6HN41-2AA0</b>	<b>3VA6325-7HN41-2AA0</b>	<b>3VA6325-8HN41-2AA0</b>
400	<b>3VA6440-6HN41-2AA0</b>	<b>3VA6440-7HN41-2AA0</b>	<b>3VA6440-8HN41-2AA0</b>

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection, 100 % rated breakers

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

	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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(M)
	A	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

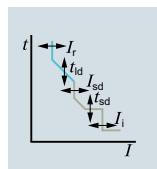
**4-pole, fixed-mounted, 100 % rated, 3VA61 to 3VA64, up to 400 A<sup>1)</sup>**  
Electronic Trip Unit



#### Line 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%

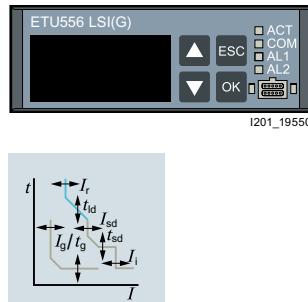
3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	24 ... 400 60 ... 1000 90 ... 1500	60 ... 480 150 ... 1200 225 ... 1500	<b>3VA6140-5JP41-2AA0</b> <b>3VA6110-5JP41-2AA0</b> <b>3VA6115-5JP41-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	60 ... 1000 150 ... 2500	150 ... 1200 375 ... 2500	<b>3VA6210-5JP41-2AA0</b> <b>3VA6225-5JP41-2AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5JP41-2AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5JP41-2AA0</b>



#### Line protection, with display, ETU556 LSI(G)

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

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	24 ... 400 60 ... 1000 90 ... 1500	60 ... 480 150 ... 1200 225 ... 1500	<b>3VA6140-5JT41-2AA0</b> <b>3VA6110-5JT41-2AA0</b> <b>3VA6115-5JT41-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	60 ... 1000 150 ... 2500	150 ... 1200 375 ... 2500	<b>3VA6210-5JT41-2AA0</b> <b>3VA6225-5JT41-2AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5JT41-2AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5JT41-2AA0</b>



#### Line 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  $I_g$

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	24 ... 400 60 ... 1000 90 ... 1500	60 ... 480 150 ... 1200 225 ... 1500	<b>3VA6140-5JQ41-2AA0</b> <b>3VA6110-5JQ41-2AA0</b> <b>3VA6115-5JQ41-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	60 ... 1000 150 ... 2500	150 ... 1200 375 ... 2500	<b>3VA6210-5JQ41-2AA0</b> <b>3VA6225-5JQ41-2AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5JQ41-2AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5JQ41-2AA0</b>

<sup>1)</sup> 3VA6 molded case circuit breakers are supplied without connection technology. Pay attention to page 4/22 when selecting suitable connection technology.

**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection, 100 % rated breakers**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V See "Overview", p. 1/6 and 1/7</b> 	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V See "Overview", p. 1/6 and 1/7</b> 	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V See "Overview", p. 1/6 and 1/7</b> 	
A	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU

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

With adjustable overload protection  $I_p$ , 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%

40	<b>3VA6140-6JP41-2AA0</b>	<b>3VA6140-7JP41-2AA0</b>	<b>3VA6140-8JP41-2AA0</b>
100	<b>3VA6110-6JP41-2AA0</b>	<b>3VA6110-7JP41-2AA0</b>	<b>3VA6110-8JP41-2AA0</b>
150	<b>3VA6115-6JP41-2AA0</b>	<b>3VA6115-7JP41-2AA0</b>	<b>3VA6115-8JP41-2AA0</b>
100	<b>3VA6210-6JP41-2AA0</b>	<b>3VA6210-7JP41-2AA0</b>	<b>3VA6210-8JP41-2AA0</b>
250	<b>3VA6225-6JP41-2AA0</b>	<b>3VA6225-7JP41-2AA0</b>	<b>3VA6225-8JP41-2AA0</b>
250	<b>3VA6325-6JP41-2AA0</b>	<b>3VA6325-7JP41-2AA0</b>	<b>3VA6325-8JP41-2AA0</b>
400	<b>3VA6440-6JP41-2AA0</b>	<b>3VA6440-7JP41-2AA0</b>	<b>3VA6440-8JP41-2AA0</b>

**Line protection, with display, ETU556 LSI(G)**

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

40	<b>3VA6140-6JT41-2AA0</b>	<b>3VA6140-7JT41-2AA0</b>	<b>3VA6140-8JT41-2AA0</b>
100	<b>3VA6110-6JT41-2AA0</b>	<b>3VA6110-7JT41-2AA0</b>	<b>3VA6110-8JT41-2AA0</b>
150	<b>3VA6115-6JT41-2AA0</b>	<b>3VA6115-7JT41-2AA0</b>	<b>3VA6115-8JT41-2AA0</b>
100	<b>3VA6210-6JT41-2AA0</b>	<b>3VA6210-7JT41-2AA0</b>	<b>3VA6210-8JT41-2AA0</b>
250	<b>3VA6225-6JT41-2AA0</b>	<b>3VA6225-7JT41-2AA0</b>	<b>3VA6225-8JT41-2AA0</b>
250	<b>3VA6325-6JT41-2AA0</b>	<b>3VA6325-7JT41-2AA0</b>	<b>3VA6325-8JT41-2AA0</b>
400	<b>3VA6440-6JT41-2AA0</b>	<b>3VA6440-7JT41-2AA0</b>	<b>3VA6440-8JT41-2AA0</b>

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

With adjustable overload protection  $I_p$ , 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  $I_g$

40	<b>3VA6140-6JQ41-2AA0</b>	<b>3VA6140-7JQ41-2AA0</b>	<b>3VA6140-8JQ41-2AA0</b>
100	<b>3VA6110-6JQ41-2AA0</b>	<b>3VA6110-7JQ41-2AA0</b>	<b>3VA6110-8JQ41-2AA0</b>
150	<b>3VA6115-6JQ41-2AA0</b>	<b>3VA6115-7JQ41-2AA0</b>	<b>3VA6115-8JQ41-2AA0</b>
100	<b>3VA6210-6JQ41-2AA0</b>	<b>3VA6210-7JQ41-2AA0</b>	<b>3VA6210-8JQ41-2AA0</b>
250	<b>3VA6225-6JQ41-2AA0</b>	<b>3VA6225-7JQ41-2AA0</b>	<b>3VA6225-8JQ41-2AA0</b>
250	<b>3VA6325-6JQ41-2AA0</b>	<b>3VA6325-7JQ41-2AA0</b>	<b>3VA6325-8JQ41-2AA0</b>
400	<b>3VA6440-6JQ41-2AA0</b>	<b>3VA6440-7JQ41-2AA0</b>	<b>3VA6440-8JQ41-2AA0</b>

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection, 100 % rated breakers

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

	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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(M)
	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	

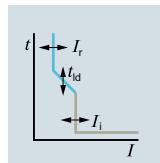
**4-pole, fixed-mounted, 100 % rated, 3VA61 to 3VA64, up to 400 A<sup>1)</sup>**  
**Electronic Trip Unit**



#### Line protection, with display, with metering function, ETU820 LI

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

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	60 ... 480 150 ... 1200 225 ... 1500	--	<b>3VA6140-5KL41-2AA0</b> <b>3VA6110-5KL41-2AA0</b> <b>3VA6115-5KL41-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	150 ... 1200 375 ... 2500	--	<b>3VA6210-5KL41-2AA0</b> <b>3VA6225-5KL41-2AA0</b>
3VA63	250	100 ... 250	375 ... 3000	--	<b>3VA6325-5KL41-2AA0</b>
3VA64	400	160 ... 400	600 ... 4800	--	<b>3VA6440-5KL41-2AA0</b>



#### Line protection, with display, with metering function, ETU830 LIG

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

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	60 ... 480 150 ... 1200 225 ... 1500	15 ... 40 20 ... 100 30 ... 150	<b>3VA6140-5KM41-2AA0</b> <b>3VA6110-5KM41-2AA0</b> <b>3VA6115-5KM41-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	150 ... 1200 375 ... 2500	20 ... 100 50 ... 250	<b>3VA6210-5KM41-2AA0</b> <b>3VA6225-5KM41-2AA0</b>
3VA63	250	100 ... 250	375 ... 3000	50 ... 250	<b>3VA6325-5KM41-2AA0</b>
3VA64	400	160 ... 400	600 ... 4800	80 ... 400	<b>3VA6440-5KM41-2AA0</b>

<sup>1)</sup> 3VA6 molded case circuit breakers are supplied without connection technology. Pay attention to [page 4/22](#) when selecting suitable connection technology.

**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection, 100 % rated breakers**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V</b> See "Overview", p. 1/6 and 1/7	(L)
A	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU	d	Article No. <a href="http://www.siemens.com/product">www.siemens.com/</a> product?Article No.	Basic price per PU

**Line protection, with display, with metering function, ETU820 LI**With adjustable overload protection  $I_r$  and adjustable instantaneous short-circuit protection  $I_i$ 

40	<b>3VA6140-6KL41-2AA0</b> 3VA6110-6KL41-2AA0 3VA6115-6KL41-2AA0	<b>3VA6140-7KL41-2AA0</b> 3VA6110-7KL41-2AA0 3VA6115-7KL41-2AA0	<b>3VA6140-8KL41-2AA0</b> 3VA6110-8KL41-2AA0 3VA6115-8KL41-2AA0
100	<b>3VA6210-6KL41-2AA0</b> 3VA6225-6KL41-2AA0	<b>3VA6210-7KL41-2AA0</b> 3VA6225-7KL41-2AA0	<b>3VA6210-8KL41-2AA0</b> 3VA6225-8KL41-2AA0
250	<b>3VA6325-6KL41-2AA0</b>	<b>3VA6325-7KL41-2AA0</b>	<b>3VA6325-8KL41-2AA0</b>
400	<b>3VA6440-6KL41-2AA0</b>	<b>3VA6440-7KL41-2AA0</b>	<b>3VA6440-8KL41-2AA0</b>

**Line protection, with display, with metering function, ETU830 LIG**With adjustable overload protection  $I_r$ , adjustable instantaneous short-circuit protection  $I_i$  and adjustable ground-fault protection  $I_g$ 

40	<b>3VA6140-6KM41-2AA0</b> 3VA6110-6KM41-2AA0 3VA6115-6KM41-2AA0	<b>3VA6140-7KM41-2AA0</b> 3VA6110-7KM41-2AA0 3VA6115-7KM41-2AA0	<b>3VA6140-8KM41-2AA0</b> 3VA6110-8KM41-2AA0 3VA6115-8KM41-2AA0
100	<b>3VA6210-6KM41-2AA0</b> 3VA6225-6KM41-2AA0	<b>3VA6210-7KM41-2AA0</b> 3VA6225-7KM41-2AA0	<b>3VA6210-8KM41-2AA0</b> 3VA6225-8KM41-2AA0
250	<b>3VA6325-6KM41-2AA0</b>	<b>3VA6325-7KM41-2AA0</b>	<b>3VA6325-8KM41-2AA0</b>
400	<b>3VA6440-6KM41-2AA0</b>	<b>3VA6440-7KM41-2AA0</b>	<b>3VA6440-8KM41-2AA0</b>

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Line protection, 100 % rated breakers

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

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	<b>Medium breaking capacity M, up to 35 kA at 480 V</b>	
						See "Overview", p. 1/6 and 1/7	(M)
	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, 100 % rated, **3VA61 to 3VA64, up to 400 A<sup>1)</sup>**

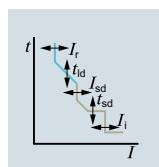
Electronic Trip Unit



#### Line 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%

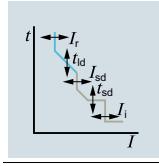
3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	24 ... 400 60 ... 1000 90 ... 1500	60 ... 480 150 ... 1200 225 ... 1500	<b>3VA6140-5KP41-2AA0 3VA6110-5KP41-2AA0 3VA6115-5KP41-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	60 ... 1000 150 ... 2500	150 ... 1200 375 ... 2500	<b>3VA6210-5KP41-2AA0 3VA6225-5KP41-2AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5KP41-2AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5KP41-2AA0</b>



#### Line protection, with display, with metering function, ETU856 LSI(G)

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

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	24 ... 400 60 ... 1000 90 ... 1500	60 ... 480 150 ... 1200 225 ... 1500	<b>3VA6140-5KT41-2AA0 3VA6110-5KT41-2AA0 3VA6115-5KT41-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	60 ... 1000 150 ... 2500	150 ... 1200 375 ... 2500	<b>3VA6210-5KT41-2AA0 3VA6225-5KT41-2AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5KT41-2AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5KT41-2AA0</b>



#### Line 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  $I_g$

3VA61	40 100 150	16 ... 40 40 ... 100 60 ... 150	24 ... 400 60 ... 1000 90 ... 1500	60 ... 480 150 ... 1200 225 ... 1500	<b>3VA6140-5KQ41-2AA0 3VA6110-5KQ41-2AA0 3VA6115-5KQ41-2AA0</b>
3VA62	100 250	40 ... 100 100 ... 250	60 ... 1000 150 ... 2500	150 ... 1200 375 ... 2500	<b>3VA6210-5KQ41-2AA0 3VA6225-5KQ41-2AA0</b>
3VA63	250	100 ... 250	150 ... 2500	375 ... 3000	<b>3VA6325-5KQ41-2AA0</b>
3VA64	400	160 ... 400	240 ... 4000	600 ... 4800	<b>3VA6440-5KQ41-2AA0</b>

<sup>1)</sup> 3VA6 molded case circuit breakers are supplied without connection technology. Pay attention to page 4/22 when selecting suitable connection technology.

**3VA UL Molded Case Circuit Breakers**

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

**Line protection, 100 % rated breakers**

PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

Rated current $I_n$	SD	<b>High breaking capacity H, up to 65 kA at 480 V See "Overview", p. 1/6 and 1/7</b>	(H)	SD	<b>Very high breaking capacity C, up to 100 kA at 480 V See "Overview", p. 1/6 and 1/7</b>	(C)	SD	<b>Extremely high breaking capacity L, up to 150 kA at 480 V See "Overview", p. 1/6 and 1/7</b>	(L)
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	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, with display, with metering function, ETU850 LS**

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

40	<b>3VA6140-6KP41-2AA0</b>	<b>3VA6140-7KP41-2AA0</b>	<b>3VA6140-8KP41-2AA0</b>
100	<b>3VA6110-6KP41-2AA0</b>	<b>3VA6110-7KP41-2AA0</b>	<b>3VA6110-8KP41-2AA0</b>
150	<b>3VA6115-6KP41-2AA0</b>	<b>3VA6115-7KP41-2AA0</b>	<b>3VA6115-8KP41-2AA0</b>
100	<b>3VA6210-6KP41-2AA0</b>	<b>3VA6210-7KP41-2AA0</b>	<b>3VA6210-8KP41-2AA0</b>
250	<b>3VA6225-6KP41-2AA0</b>	<b>3VA6225-7KP41-2AA0</b>	<b>3VA6225-8KP41-2AA0</b>
250	<b>3VA6325-6KP41-2AA0</b>	<b>3VA6325-7KP41-2AA0</b>	<b>3VA6325-8KP41-2AA0</b>
400	<b>3VA6440-6KP41-2AA0</b>	<b>3VA6440-7KP41-2AA0</b>	<b>3VA6440-8KP41-2AA0</b>

**Line protection, with display, with metering function, ETU856 LS(G)**

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

40	<b>3VA6140-6KT41-2AA0</b>	<b>3VA6140-7KT41-2AA0</b>	<b>3VA6140-8KT41-2AA0</b>
100	<b>3VA6110-6KT41-2AA0</b>	<b>3VA6110-7KT41-2AA0</b>	<b>3VA6110-8KT41-2AA0</b>
150	<b>3VA6115-6KT41-2AA0</b>	<b>3VA6115-7KT41-2AA0</b>	<b>3VA6115-8KT41-2AA0</b>
100	<b>3VA6210-6KT41-2AA0</b>	<b>3VA6210-7KT41-2AA0</b>	<b>3VA6210-8KT41-2AA0</b>
250	<b>3VA6225-6KT41-2AA0</b>	<b>3VA6225-7KT41-2AA0</b>	<b>3VA6225-8KT41-2AA0</b>
250	<b>3VA6325-6KT41-2AA0</b>	<b>3VA6325-7KT41-2AA0</b>	<b>3VA6325-8KT41-2AA0</b>
400	<b>3VA6440-6KT41-2AA0</b>	<b>3VA6440-7KT41-2AA0</b>	<b>3VA6440-8KT41-2AA0</b>

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

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

40	<b>3VA6140-6KQ41-2AA0</b>	<b>3VA6140-7KQ41-2AA0</b>	<b>3VA6140-8KQ41-2AA0</b>
100	<b>3VA6110-6KQ41-2AA0</b>	<b>3VA6110-7KQ41-2AA0</b>	<b>3VA6110-8KQ41-2AA0</b>
150	<b>3VA6115-6KQ41-2AA0</b>	<b>3VA6115-7KQ41-2AA0</b>	<b>3VA6115-8KQ41-2AA0</b>
100	<b>3VA6210-6KQ41-2AA0</b>	<b>3VA6210-7KQ41-2AA0</b>	<b>3VA6210-8KQ41-2AA0</b>
250	<b>3VA6225-6KQ41-2AA0</b>	<b>3VA6225-7KQ41-2AA0</b>	<b>3VA6225-8KQ41-2AA0</b>
250	<b>3VA6325-6KQ41-2AA0</b>	<b>3VA6325-7KQ41-2AA0</b>	<b>3VA6325-8KQ41-2AA0</b>
400	<b>3VA6440-6KQ41-2AA0</b>	<b>3VA6440-7KQ41-2AA0</b>	<b>3VA6440-8KQ41-2AA0</b>

## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Motor circuit protectors and molded case switches

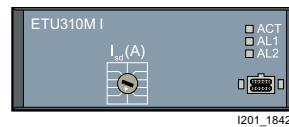
PU (UNIT, SET, M) = 1

PS = 1 unit

PG = 1CB

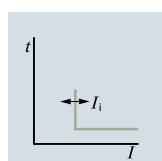
Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	S function (short-time delayed short-circuit protection "S") $I_{sd}$	Operating current of the instantaneous short-circuit protection "I" $I_i$	SD	<b>SCCR without contactor, 100 kA<sup>1)</sup> at 480 V</b> See "Overview", p. 1/6 and 1/7	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	A	d			

**3-pole, fixed-mounted, 3VA61 to 3VA64, up to 600 A**  
Electronic Trip Unit



#### Motor circuit protector, ETU310M

With adjustable short-circuit protection  $I_i$



3VA61	25	--	--	75 ... 375	<b>3VA6125-1MS31-0AA0</b>
	30	--	--	90 ... 450	<b>3VA6130-1MS31-0AA0</b>
	40	--	--	120 ... 600	<b>3VA6140-1MS31-0AA0</b>
	50	--	--	150 ... 750	<b>3VA6150-1MS31-0AA0</b>
	70	--	--	210 ... 1050	<b>3VA6170-1MS31-0AA0</b>
	80	--	--	240 ... 1200	<b>3VA6180-1MS31-0AA0</b>
	90	--	--	270 ... 1350	<b>3VA6190-1MS31-0AA0</b>
	100	--	--	300 ... 1500	<b>3VA6110-1MS31-0AA0</b>
3VA62	110	--	--	330 ... 1650	<b>3VA6211-1MS31-0AA0</b>
	125	--	--	375 ... 1875	<b>3VA6212-1MS31-0AA0</b>
	150	--	--	450 ... 2250	<b>3VA6215-1MS31-0AA0</b>
	200	--	--	600 ... 2400	<b>3VA6220-1MS31-0AA0</b>
3VA63	200	--	--	600 ... 3000	<b>3VA6320-1MS31-0AA0</b>
	250	--	--	750 ... 3750	<b>3VA6325-1MS31-0AA0</b>
3VA64	400	--	--	1200 ... 5200	<b>3VA6440-1MS31-0AA0</b>
	500	--	--	1500 ... 6000	<b>3VA6450-1MS31-0AA0</b>

<sup>1)</sup> Breaking capacity (the SCCR rating) is the maximum permissible short-circuit current at the installation location of the MCS in combination with an appropriate overload protection element.

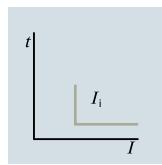
Type	Rated current $I_n$	Current setting of the inverse-time delayed overload protection "L" $I_r$	S function (short-time delayed short-circuit protection "S") $I_{sd}$	Operating current of the instantaneous short-circuit protection "I" $I_i$	SD	<b>SCCR 100 kA<sup>1)</sup> at 480 V</b>	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Basic price per PU
	A	A	A	A	d			

**3-pole, fixed-mounted, 3VA63/3VA64, up to 600 A**

#### Molded case switches

With fixed short-circuit protection  $I_i$ , for self-protection

3VA63	400	--	--	5600	<b>3VA6340-1BB31-0AA0</b>
3VA64	600	--	--	5400	<b>3VA6460-1BB31-0AA0</b>



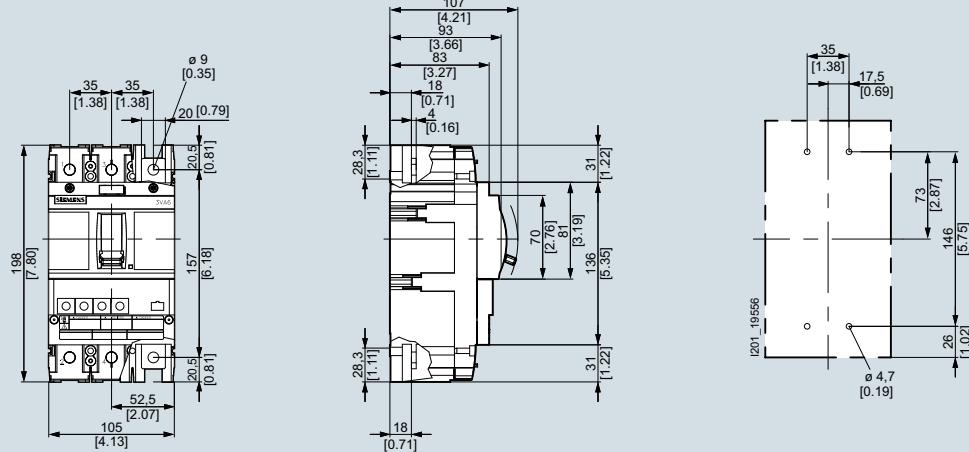
<sup>1)</sup> Breaking capacity (the SCCR rating) is the maximum permissible short-circuit current at the installation location of the MCS in combination with an appropriate overload protection element.

## **3VA UL Molded Case Circuit Breakers**

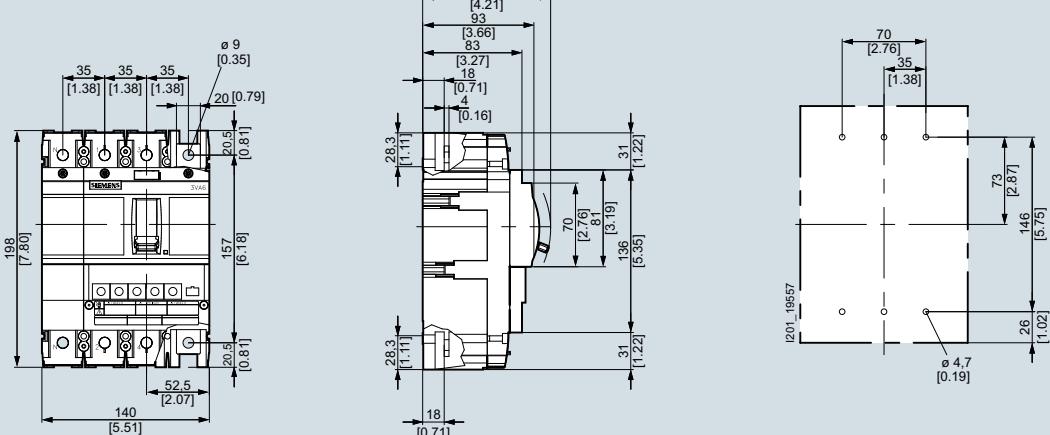
## 3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

## Dimensional drawings

## Overview



### 3VA61 and 3VA62, 3-pole

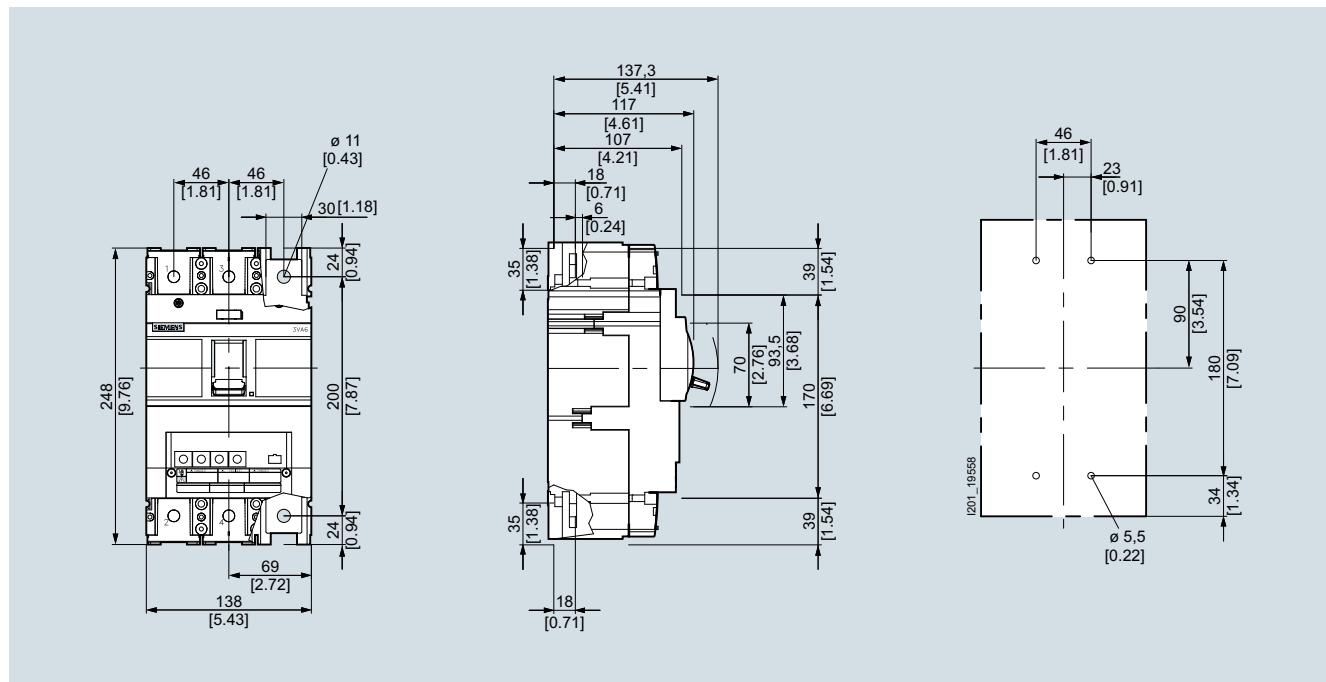


### 3VA61 and 3VA62, 4-pole

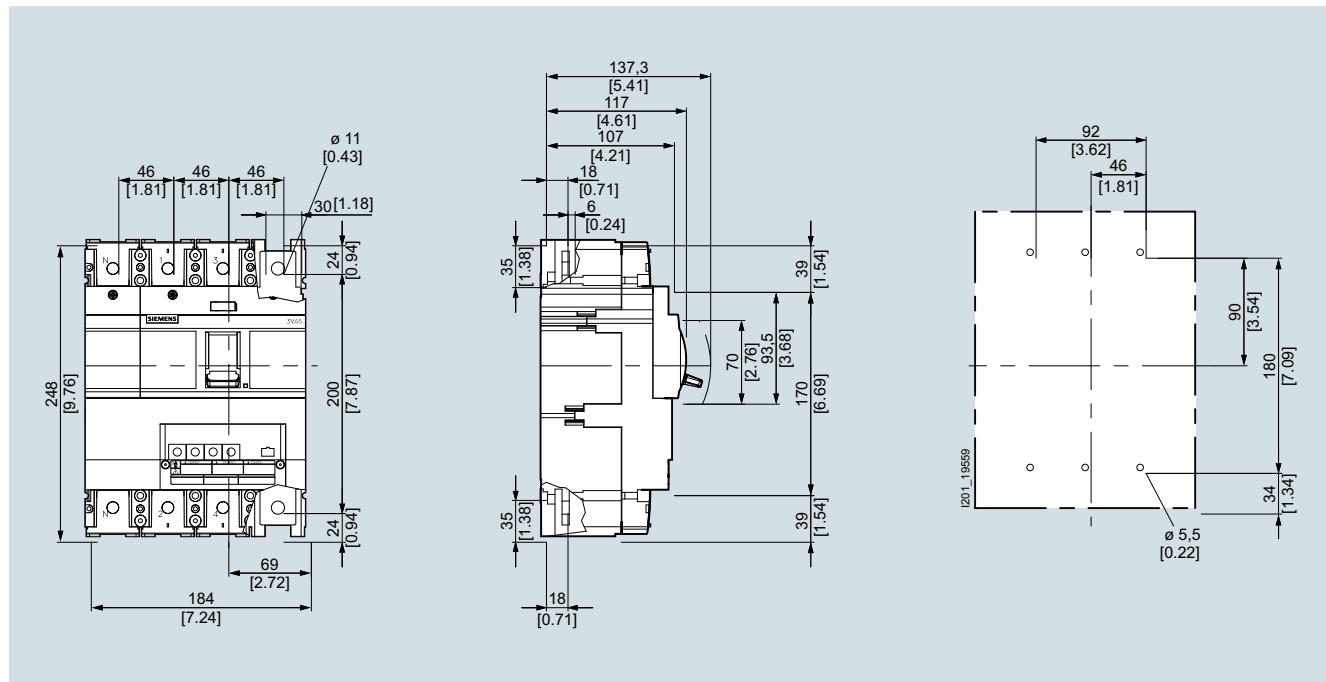
## 3VA UL Molded Case Circuit Breakers

3VA6 Molded Case Circuit Breakers up to 600 A, ETU, 600 V, up to 150 kA

### Dimensional drawings



3VA63 and 3VA64, 3-pole



3VA63 and 3VA64, 4-pole

Further dimensional drawings can be found in the image database at: [www.siemens.com/lowvoltage/picturedb](http://www.siemens.com/lowvoltage/picturedb)

## Accessories and Spare Parts



4/2	<b>Internal accessories</b>
4/12	<b>Manual operators</b>
4/21	<b>Motor operators</b>
4/22	<b>Connection technology</b>
4/34	<b>Plug-in and draw-out technology</b>
4/39	<b>Communication and testing/ commissioning devices</b>
4/48	<b>Accessories for locking, blocking and interlocking</b>

| 4/52 | **Other** |
| **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 Download FAQ Manual Product note Software archive Technical data |

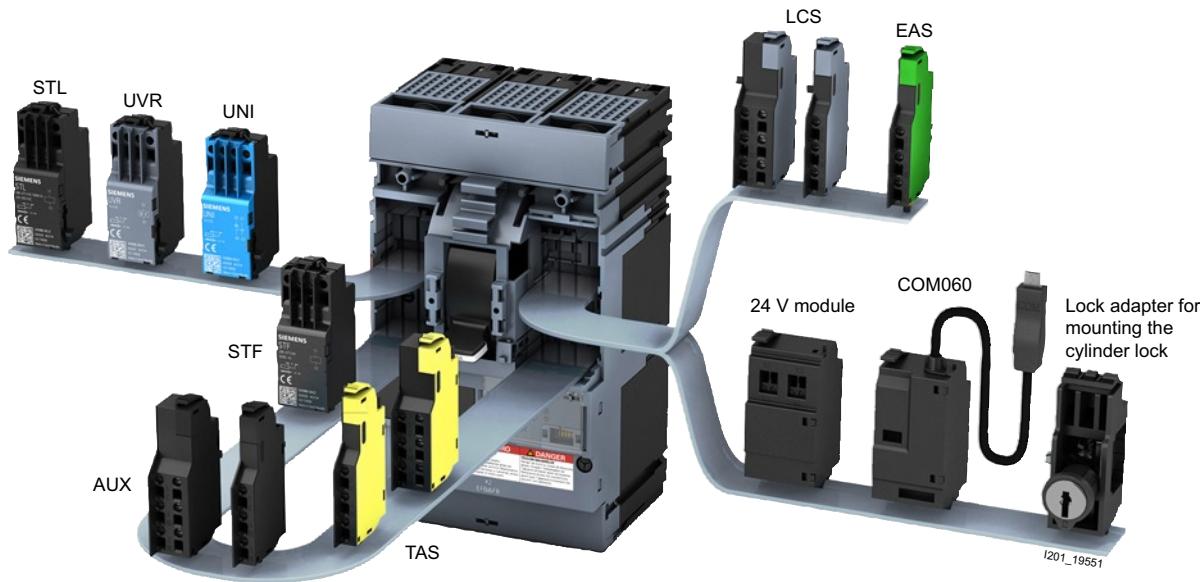
## 3VA UL Molded Case Circuit Breakers

Accessories and Spare Parts

### 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	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 switch TAS	--
Green	Electrical alarm switch EAS	--
Blue	--	Universal release UNI

#### Auxiliary switches

All auxiliary and alarm switches for the 3VA UL molded case circuit breakers belong to an integrated range of accessories. 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 can, for example, be used to set a frequency converter to a safe state.

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 that 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 UL 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 UL molded case circuit breaker remotely. The STF variant can be mounted in either the left-hand or the right-hand accessories compartment (for 3VA6 only). The STL type is specifically designed for mounting in the left-hand compartment and is a very low-consumption device.

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

**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

**Internal accessories****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 cover of the accessories compartment indicate the possible mounting positions of the internal accessories.

**3VA UL with internal accessories pre-assembled at the factory**

The basic circuit breakers with -□AA0 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.

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

The standard delivery time for equipped 3VA UL 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)

4

The screenshot shows the 3VA Configurator software interface. At the top, there's a message: "The configuration is complete. You can order this product." Below the header, there are tabs: Basic configuration, Release, Form type, Main conductor connection, Auxiliary release/auxiliary switch, Mountable accessories, Result, CAD/CAE, and a version number (1.81). The "Auxiliary release/auxiliary switch" tab is selected. Under "Assembly option", there are two radio button options: "Self-assembly" and "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." The "When selecting..." option is selected. In the "Auxiliary release" section, several radio button options are listed, with "UVR 24 V DC" selected. In the "Slot assignment" section, there's a diagram of a circuit breaker with six slots labeled 1 through 6. In the "Auxiliary switch/alarm switch" section, multiple radio button options are listed, with "Type HQ 1 AUX + 1 TAS" selected.

## 3VA UL Molded Case Circuit Breakers

Accessories and Spare Parts

### Internal accessories

#### Design

Internal accessories		Optional equipment		3VA51 3-pole			3VA52 2(3)-pole & 3-pole											
				Slot No.:	23	22	21	11	12	13	24	23	22	21	11	12	13	14
Auxiliary switch	Type				x	x	x	x	x	x	x	x	x	x	x	x	x	x
Auxiliary switch	AUX_HQ				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
	AUX_HP				x			x		x	x	x	x	x	x	x	x	x
Leading changeover switch	LCS_HQ					x		x		x		x		x		x		x
	LCS_HQ_el					x		x		x		x		x		x		x
	LCS_HP					x		x		x		x		x		x		x
Alarm switch	Type				x	x		x	x		x	x		x	x		x	x
Trip alarm switch	TAS_HQ				x	x		x	x		x	x		x	x		x	x
	TAS_HQ_el				x	x		x	x		x	x		x	x		x	x
	TAS_HP				x			x			x			x		x		x
Auxiliary release	Type				x						x							
Shunt trip flexible	STF				x						x							
Shunt trip left	STL				x						x							
Undervoltage release	UVR				x						x							
Universal release	UNI				x						x							
Other																		
Cylinder lock (type Ronis)										x								

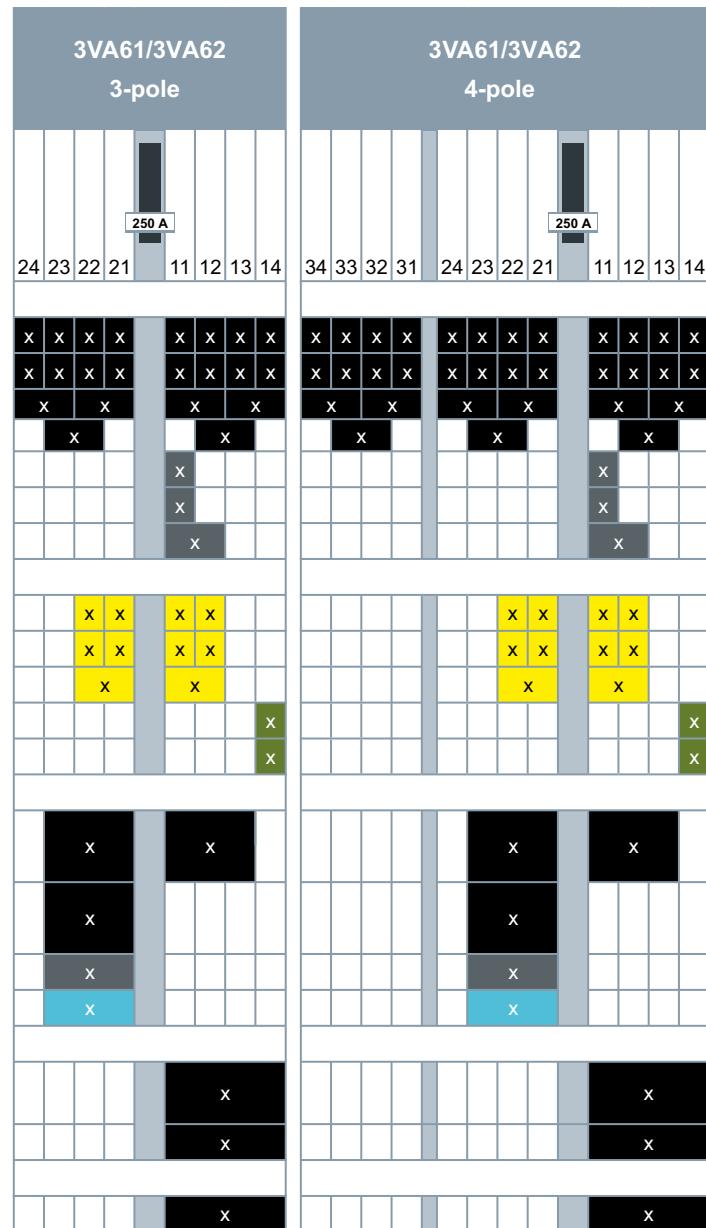
I201\_19494

**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

**Internal accessories**

<b>Internal accessories</b>		
<b>Optional equipment</b>		
		<b>Slot No.:</b>
<b>Auxiliary switch</b>	<b>Type</b>	
Auxiliary switch	AUX_HQ	
	AUX_HQ_el	
	AUX_HP	
Leading changeover switch	LCS_HQ	
	LCS_HQ_el	
	LCS_HP	
<b>Alarm switch</b>	<b>Type</b>	
Trip alarm switch	TAS_HQ	
	TAS_HQ_el	
	TAS_HP	
Electrical alarm switch	EAS_HQ	
	EAS_HQ_el	
<b>Auxiliary release</b>	<b>Type</b>	
Shunt trip flexible	STF	
Shunt trip left	STL	
Undervoltage release	UVR	
Universal release	UNI	
<b>ETU/communication</b>	<b>Type</b>	
Communication module Breaker data server	COM060	
24 V module		
<b>Other</b>		
Cylinder lock (type Ronis)		



I201\_19495

# 3VA UL Molded Case Circuit Breakers

Accessories and Spare Parts

## Internal accessories

Internal accessories		3VA63/3VA64															3VA63/3VA64																	
Optional equipment		3-pole															4-pole																	
		Slot No.:																																
Auxiliary switch	Type	25	24	23	22	21	11	12	13	14	15	35	34	33	32	31	25	24	23	22	21	11	12	13	14	15								
Auxiliary switch	AUX_HQ	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x					
	AUX_HQ_el	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x					
	AUX_HP			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x					
Leading changeover switch	LCS_HQ						x					x											x			x								
	LCS_HQ_el						x					x											x			x								
	LCS_HP						x					x											x			x								
Alarm switch	Type						x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
	TAS_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				
	TAS_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				
Electrical alarm switch	TAS_HP						x					x											x			x								
	EAS_HQ											x											x			x							x	
	EAS_HQ_el											x											x			x							x	
Auxiliary release	Type																						x			x								
	Shunt trip flexible	STF					x					x											x			x								
	Shunt trip left	STL					x					x											x			x								
Undervoltage release	UVR						x					x											x			x								
	Universal release	UNI					x					x											x			x								
	ETU/communication	Type																					x			x								
Communication module	COM060																						x			x								
	Breaker data server																						x			x								
24 V module																							x			x								
																							x			x								
																							x			x								
Other																																		
	Cylinder lock (type Ronis)																						x			x								

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# 3VA UL Molded Case Circuit Breakers

## Accessories and Spare Parts

### Internal accessories

#### Technical specifications

	Auxiliary switches and alarm switches HQ				Auxiliary switches and alarm switches HQ_electronic				Auxiliary switches and alarm switches HP		
	AUX	LCS	TAS	EAS	AUX	LCS	TAS	EAS	AUX	LCS	TAS
<b>Mounting width</b>	mm	7			7				14		
<b>Conductor cross-sections</b>	Solid/ stranded/ finely stranded with end sleeve	Screw connection (per contact)	1 x (0.5 - 1.5)  1 x (AWG20 - AWG16)		1 x (0.5 - 1.5)  1 x (AWG20 - AWG16)				2 x (0.75 - 2.5)  2 x (AWG18 - AWG14)		
	Finely stranded with insulated end sleeve	Screw connection (per contact)	1 x (0.5 - 1.0)  1 x (AWG20 - AWG16)		1 x (0.5 - 1.0)  1 x (AWG20 - AWG16)				2 x (0.75 - 1.0)  2 x (AWG18 - AWG16)		
	Tightening torque (connecting cables)	Nm	0.4 <sup>+0.1</sup>		0.4 <sup>+0.1</sup>				0.4 <sup>+0.1</sup>		
	Stripped length	mm	15		15				15		
<b>Rated operational voltage</b>	$U_e$	V AC 50 Hz	240		24				600		
		V DC	250		24				250		
<b>Conventional free-air thermal current</b>	$I_{th} = I_e$	A	6		0.3				10		
<b>Rated operational current</b>	AC-12	12 V	A	6	0.3				10		
	24 V	A	6		0.3				10		
	48 V	A	6		--				10		
	125 V	A	6		--				10		
	220/240 V	A	6		--				10		
	380/440 V	A	--		--				6		
	600 V	A	--		--				2		
	AC-15	12 V	A	3	0.3				6		
	24 V	A	3		0.3				6		
	48 V	A	3		--				6		
	125 V	A	3		--				6		
	220/240 V	A	3		--				6		
	380/440 V	A	--		--				2		
	600 V	A	--		--				0.6		
	DC-12	12 V	A	6	0.1				6		
	24 V	A	4		0.1				6		
	48 V	A	2		--				2		
	110 V	A	0.5		--				0.6		
	250 V	A	0.25		--				0.3		
	DC-13	12 V	A	1	0.07				3		
	24 V	A	0.8		0.07				3		
	48 V	A	0.4		--				0.8		
	110 V	A	0.2		--				0.2		
	250 V	A	0.1		--				0.1		

## 3VA UL Molded Case Circuit Breakers

Accessories and Spare Parts

### Internal accessories

	Auxiliary switches and alarm switches HQ				Auxiliary switches and alarm switches HQ_electronic				Auxiliary switches and alarm switches HP			
	AUX	LCS	TAS	EAS	AUX	LCS	TAS	EAS	AUX	LCS	TAS	
<b>Max. rated current (UL/CSA)</b>	Inductive load (0.75 - 0.8 AC)	24 A 300 A 600 A	3 3 --		0.3 -- --				6 6 6			
	Max. rated current (AC)	24 A 127 A 240 A 480 A 600 A	3 3 3 -- --		-- -- -- -- --				6 6 3 1.5 1.2			
	Ohmic load (DC)	24 A 250 A	0.25 0.25		0.1 --				0.3 0.3			
	Ohmic load - max. rated current (DC)	125 A 250 A	0.6 0.3		-- --				0.9 0.55			
<b>Minimum load</b>		At 24 V DC	mA	70				0.5		70		
		At 5 V DC	mA	--				1		--		

		Shunt trip left STL	Shunt trip flexible STF	Undervoltage releases UVR	Universal release UNI

<b>Mounting width</b>		mm	21				
<b>Conductor cross-sections</b>	Solid/stranded/finely stranded with end sleeve 	Screw connection (per contact)	Number x mm <sup>2</sup> Number x AWG	1 x (0.5 - 1.5) 1 x (AWG20 - AWG16)			
	Finely stranded with insulated end sleeve 	Screw connection (per contact)	Number x mm <sup>2</sup> Number x AWG	1 x (0.5 - 1.0) 1 x (AWG20 - AWG16)			
	Tightening torque (connecting cables)		Nm	0.4 <sup>+0.1</sup>			
	Stripped length 		mm	10			
<b>Power consumption U<sub>e</sub></b>	12 V DC	W	50	--	--	--	--
	24 V AC 50/60 Hz	VA	50	--	--	--	--
24 ... 30	V DC	W	7 ... 50	--	--	--	--
48 ... 60	V AC 50/60 Hz	VA	15 ... 20	--	--	--	--
48 ... 60	V DC	W	20 ... 30	--	--	--	--
110 ... 127	V AC 50/60 Hz	VA	30 ... 40	--	--	--	--
110 ... 127	V DC	W	30 ... 40	--	--	--	--
208 ... 277	V AC 50/60 Hz	VA	16 ... 35	--	--	--	--
220 ... 250	V DC	W	28 ... 35	--	--	--	--
380 ... 600	V AC 50/60 Hz	VA	10 ... 30	--	--	--	--

# 3VA UL Molded Case Circuit Breakers

## Accessories and Spare Parts

### Internal accessories

			<b>Shunt trip left STL</b>	<b>Shunt trip flexible STF</b>	<b>Undervoltage releases UVR</b>	<b>Universal release UNI</b>
<b>Power consumption <math>U_e</math></b>	24	V AC 50/60 Hz	VA	--	300	--
	48 ... 60	V AC 50/60 Hz	VA	--	340 ... 600	--
	110 ... 127	V AC 50/60 Hz	VA	--	500 ... 650	--
	208 ... 277	V AC 50/60 Hz	VA	--	360 ... 650	--
	380 ... 500	V AC 50/60 Hz	VA	--	330 ... 600	--
	600	V AC 50/60 Hz	VA	--	300	--
	12	V DC	W	--	< 2.5	--
	24	V DC	W	--	< 2.5	--
	48	V DC	W	--	< 2.5	--
	60	V DC	W	--	< 2.5	--
	125 ... 127	V DC	W	--	< 2.5	--
	220 ... 230	V DC	W	--	< 2.5	--
	250	V DC	W	--	< 2.5	--
	24	V AC 50/60 Hz	VA	--	< 2	--
	48	V AC 50/60 Hz	VA	--	< 2	--
	60	V AC 50/60 Hz	VA	--	< 2	--
	110	V AC 50/60 Hz	VA	--	< 2	--
	120 ... 127	V AC 50/60 Hz	VA	--	< 2	--
	208 ... 230	V AC 50/60 Hz	VA	--	< 2	--
	380 ... 400	V AC 50/60 Hz	VA	--	< 2.5	--
	440 ... 480	V AC 50/60 Hz	VA	--	< 2.5	--
	12	V DC (Cat II; PELV/SELV)	W	--	--	UVR: < 2.5 SHT: 20
	24	V DC (Cat II; PELV/SELV)	W	--	--	UVR: < 2.5 SHT: 20
	48	V DC (Cat II; PELV/SELV)	W	--	--	UVR: < 2.5 SHT: 20
<b>Rated impulse withstand voltage</b>		$U_{imp}$	kV	6	4	0.5
<b>Making current</b>		$I_{max}$	at V	1.5 A/24 V AC	18 A/24 V AC	5 mA/480 V
<b>Maximum tripping time</b>			ms	< 10		
<b>Service life</b>	Electrical trips			8500		
	Mechanical switching cycles of the circuit breaker			25000		
<b>Priority over other control signals</b>				Given		
<b>Degree of protection</b>	Cover of the accessories compartment closed			IP40		
	Cover of the accessories compartment open			IP 20		
<b>Minimum signal duration</b>		ms	40	40	--	40
<b>Response voltage shunt trip</b>	Pick-up (circuit breaker trips)	Us/V	%	70 ... 110	--	70 ... 110
<b>Undervoltage release response voltage</b>	Pick-up (circuit breaker can be switched on)	Us/V	%	--	--	85 ... 110
	Pick-up (circuit breaker trips)	Us/V	%	--	--	35 ... 70
<b>Tripping frequency</b>	Trips per hour			Unlimited	120	Unlimited
<b>Can be used for electrical interlocking of molded case circuit breakers</b>				No	No	Yes

## 3VA UL Molded Case Circuit Breakers

### Accessories and Spare Parts

#### Internal accessories

##### Selection and ordering data

	Version	SD d	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</b>							
 3VA9978-0AA11 3VA9978-0AA12	<b>Auxiliary switch AUX</b> Type/switching capacity/size HP/high switching capacity/2 slots HQ/compact size/1 slot HQ_el/compact size/1 slot	Electronic-compatible -- -- ✓	<b>3VA9978-0AA11</b> <b>3VA9978-0AA12</b> <b>3VA9978-0AA13</b>	1 1 1	1 unit 1 unit 1 unit	1CB 1CB 1CB	
 3VA9978-0AA21 3VA9978-0AA22	<b>Leading changeover switch LCS</b> Type/switching capacity/size HP/high switching capacity/2 slots HQ/compact size/1 slot HQ_el/compact size/1 slot	Electronic-compatible -- -- ✓	<b>3VA9978-0AA21</b> <b>3VA9978-0AA22</b> <b>3VA9978-0AA23</b>	1 1 1	1 unit 1 unit 1 unit	1CB 1CB 1CB	
 3VA9978-0AB11 3VA9978-0AB12	<b>Trip alarm switch TAS</b> Type/switching capacity/size HP/high switching capacity/2 slots HQ/compact size/1 slot HQ_el/compact size/1 slot	Electronic-compatible -- -- ✓	<b>3VA9978-0AB11</b> <b>3VA9978-0AB12</b> <b>3VA9978-0AB13</b>	1 1 1	1 unit 1 unit 1 unit	1CB 1CB 1CB	
 3VA9978-0AB22	<b>Electrical alarm switch EAS (3VA6 only)</b> Type/switching capacity/size HQ/compact size/1 slot HQ_el/compact size/1 slot	Electronic-compatible -- ✓	<b>3VA9978-0AB22</b> <b>3VA9978-0AB23</b>	1 1	1 unit 1 unit	1CB 1CB	
<b>Undervoltage releases</b>							
 3VA9978-0BB16	<b>Undervoltage release UVR</b> V AC 50/60 Hz      V DC	-- -- -- -- -- 24 48 125 ... 127 250 24 120 ... 127 208 ... 230 440 ... 480	<b>3VA9978-0BB10</b> <b>3VA9978-0BB11</b> <b>3VA9978-0BB12</b> <b>3VA9978-0BB14</b> <b>3VA9978-0BB16</b> <b>3VA9978-0BB20</b> <b>3VA9978-0BB24</b> <b>3VA9978-0BB25</b> <b>3VA9978-0BB27</b>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 unit 1 unit	1CB 1CB 1CB 1CB 1CB 1CB 1CB 1CB 1CB 1CB 1CB 1CB 1CB 1CB 1CB 1CB	

## 3VA UL Molded Case Circuit Breakers

### Accessories and Spare Parts

#### Internal accessories

	Version	SD d	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>Shunt trip left</b>							
 <b>3VA9978-0BL33</b>							
<b>Shunt trip left STL</b>							
	50/60 Hz V AC	V DC					
380 ... 600	--	12	<b>3VA9978-0BL20</b>	1	1 unit	1CB	
--	24	24 ... 30	<b>3VA9978-0BL10</b>	1	1 unit	1CB	
24	48 ... 60	--	<b>3VA9978-0BL30</b>	1	1 unit	1CB	
48 ... 60	110 ... 127	110 ... 127	<b>3VA9978-0BL31</b>	1	1 unit	1CB	
110 ... 127	208 ... 277	220 ... 250	<b>3VA9978-0BL32</b>	1	1 unit	1CB	
208 ... 277			<b>3VA9978-0BL33</b>	1	1 unit	1CB	
<b>Shunt trip flexible STF</b>							
 <b>3VA9978-0BA23</b>							
<b>Shunt trip flexible</b>							
	50/60 Hz V AC	V DC					
24	--	--	<b>3VA9978-0BA20</b>	1	1 unit	1CB	
48 ... 60	--	--	<b>3VA9978-0BA21</b>	1	1 unit	1CB	
110 ... 127	--	--	<b>3VA9978-0BA22</b>	1	1 unit	1CB	
208 ... 277	--	--	<b>3VA9978-0BA23</b>	1	1 unit	1CB	
380 ... 500	--	--	<b>3VA9978-0BA24</b>	1	1 unit	1CB	
600	--	--	<b>3VA9978-0BA25</b>	1	1 unit	1CB	
<b>Universal release UNI</b>							
 <b>3VA9908-0BD13</b>							
<b>Universal release</b>							
	50/60 Hz V AC	V DC					
--	--	12	<b>3VA9978-0BD11</b>	1	1 unit	1CB	
--	--	24	<b>3VA9978-0BD12</b>	1	1 unit	1CB	
--	--	48	<b>3VA9978-0BD13</b>	1	1 unit	1CB	
<b>Time-delay device for undervoltage releases</b>							
 <b>3VA9978-0BF22</b>							
<b>Time-delay device</b>							
	V AC	V DC	Delay time				
230	230	24	Fixed	<b>3VA9978-0BF22</b>	1	1 unit	1CB
--	--	--	Fixed	<b>3VA9978-0BF23</b>	1	1 unit	1CB

# 3VA UL Molded Case Circuit Breakers

## Accessories and Spare Parts

### Manual operators

#### Overview

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

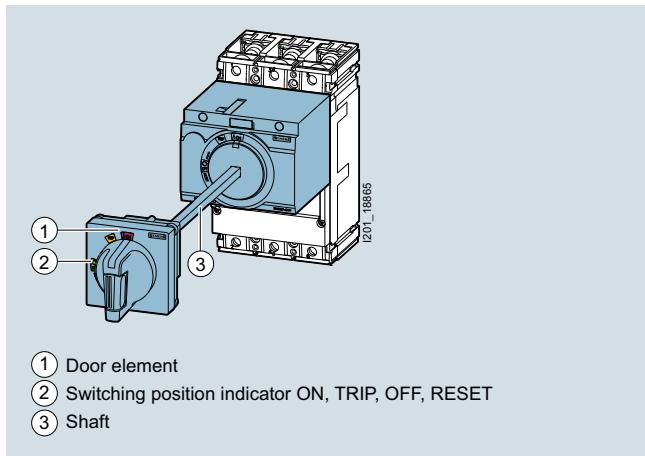
#### Front mounted rotary operator

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 optional door interlock locks the cubicle door when the molded case circuit breaker is closed, but can be deliberately overridden if necessary.



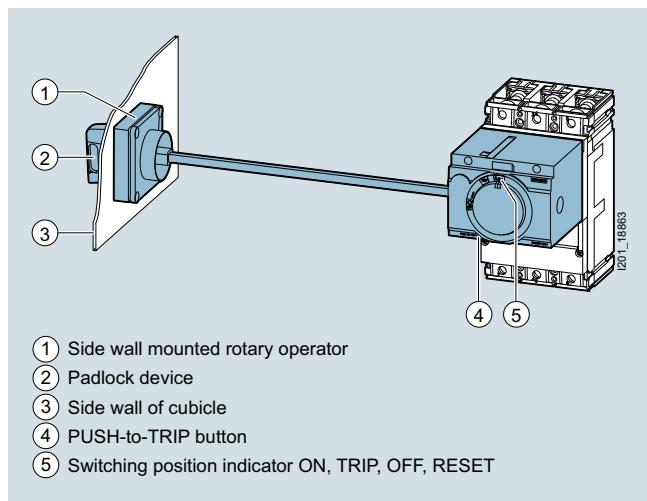
#### Door mounted rotary operator

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).



#### Side wall mounted rotary operators **NEW**

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.



### **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 rotary 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 status of the breaker (on, off, trip) can be immediately identified, even when lighting conditions are poor. This option can also be retrofitted.

### **Operating unit with Bowden cable (Max Flex operator)**

The Max Flex operator is a hand lever operator for operating the breaker from the outer side of the cabinet. The handle is connected to the switching mechanism via a Bowden cable.

The Max Flex operator can be ordered as a complete set, but is also available as single parts and offers considerable variety in terms of handles and lengths of Bowden cables. It can also be equipped with auxiliary switches.

#### Note:

The Max Flex operator is approved for the UL market only.

### **Variable depth flange mounted operator kit**

Contrary to the Max Flex operator, this operating mechanism links the handle and the switching mechanism by means of a rigid switching shaft of variable length.

#### Note:

The operating mechanism with flange connection is approved for the UL market only.

### **Benefits**

- Convenient circuit breaker operation inside and outside the cubicle
- Locking 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 (on, off, trip) even when lighting conditions are poor
- All manual operators meet the standards for isolating characteristics defined by IEC / EN 60947-1

# 3VA UL Molded Case Circuit Breakers

## Accessories and Spare Parts

### Manual operators

#### 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
<b>Front mounted rotary operators</b>								
<b>Front mounted rotary operator</b> <ul style="list-style-type: none"> <li>• Rotary operator</li> <li>• Handle</li> <li>• Degree of protection IP30</li> </ul>								
 3VA9277-0EK11	Type	Color						
<ul style="list-style-type: none"> <li>• Standard, without illumination kit</li> </ul>	Gray	✓	--	--	--	3VA9137-0EK11	1	1 unit 1CB
		--	✓	✓	--	3VA9277-0EK11	1	1 unit 1CB
		--	--	--	✓	3VA9447-0EK11	1	1 unit 1CB
<ul style="list-style-type: none"> <li>• Standard, with illumination kit</li> </ul>	Gray	✓	--	--	--	3VA9137-0EK13	1	1 unit 1CB
		--	✓	✓	--	3VA9277-0EK13	1	1 unit 1CB
		--	--	--	✓	3VA9447-0EK13	1	1 unit 1CB
<ul style="list-style-type: none"> <li>• EMERGENCY-OFF, without illumination kit</li> </ul>	Yellow-red	✓	--	--	--	3VA9137-0EK15	1	1 unit 1CB
		--	✓	✓	--	3VA9277-0EK15	1	1 unit 1CB
		--	--	--	✓	3VA9447-0EK15	1	1 unit 1CB
<ul style="list-style-type: none"> <li>• EMERGENCY-OFF, with illumination kit</li> </ul>	Yellow-red	✓	--	--	--	3VA9137-0EK17	1	1 unit 1CB
		--	✓	✓	--	3VA9277-0EK17	1	1 unit 1CB
		--	--	--	✓	3VA9447-0EK17	1	1 unit 1CB
<ul style="list-style-type: none"> <li>• Standard, with door interlock</li> </ul>	Gray	✓	--	--	--	3VA9137-0EK21	1	1 unit 1CB
		--	✓	✓	--	3VA9277-0EK21	1	1 unit 1CB
		--	--	--	✓	3VA9447-0EK21	1	1 unit 1CB
<ul style="list-style-type: none"> <li>• Standard, with door interlock, with illumination kit</li> </ul>	Gray	✓	--	--	--	3VA9137-0EK23	1	1 unit 1CB
		--	✓	✓	--	3VA9277-0EK23	1	1 unit 1CB
		--	--	--	✓	3VA9447-0EK23	1	1 unit 1CB
<ul style="list-style-type: none"> <li>• EMERGENCY-OFF, with door interlock</li> </ul>	Yellow-red	✓	--	--	--	3VA9137-0EK25	1	1 unit 1CB
		--	✓	✓	--	3VA9277-0EK25	1	1 unit 1CB
		--	--	--	✓	3VA9447-0EK25	1	1 unit 1CB
<ul style="list-style-type: none"> <li>• EMERGENCY-OFF, with door interlock, with illumination kit</li> </ul>	Yellow-red	✓	--	--	--	3VA9137-0EK27	1	1 unit 1CB
		--	✓	✓	--	3VA9277-0EK27	1	1 unit 1CB
		--	--	--	✓	3VA9447-0EK27	1	1 unit 1CB
<ul style="list-style-type: none"> <li>• Standard, with door interlock, with door open function</li> </ul>	Gray	✓	--	--	--	3VA9137-0EK31	1	1 unit 1CB
		--	✓	✓	--	3VA9277-0EK31	1	1 unit 1CB
		--	--	--	✓	3VA9447-0EK31	1	1 unit 1CB
<ul style="list-style-type: none"> <li>• Standard, with door interlock, with door open function, with illumination kit</li> </ul>	Gray	✓	--	--	--	3VA9137-0EK33	1	1 unit 1CB
		--	✓	✓	--	3VA9277-0EK33	1	1 unit 1CB
		--	--	--	✓	3VA9447-0EK33	1	1 unit 1CB
<ul style="list-style-type: none"> <li>• EMERGENCY-OFF, with door interlock, with door open function</li> </ul>	Yellow-red	✓	--	--	--	3VA9137-0EK35	1	1 unit 1CB
		--	✓	✓	--	3VA9277-0EK35	1	1 unit 1CB
		--	--	--	✓	3VA9447-0EK35	1	1 unit 1CB
<ul style="list-style-type: none"> <li>• EMERGENCY-OFF, with door interlock, with door open function, with illumination kit</li> </ul>	Yellow-red	✓	--	--	--	3VA9137-0EK37	1	1 unit 1CB
		--	✓	✓	--	3VA9277-0EK37	1	1 unit 1CB
		--	--	--	✓	3VA9447-0EK37	1	1 unit 1CB
<ul style="list-style-type: none"> <li>Without handle, with shaft stub, without door interlock</li> <li>For retrofitting with 3VL handle</li> </ul>	Gray	✓	--	--	--	3VA9137-0GK00	1	1 unit 1CB
		--	✓	✓	--	3VA9277-0GK00	1	1 unit 1CB
		--	--	--	✓	3VA9447-0GK00	1	1 unit 1CB

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**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

**Manual operators**

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>Door mounted rotary operators</b>												
<b>Door mounted rotary operator</b>  <p>• Rotary operator with door interlock  • Shaft 300 mm  • Mounting tolerance compensation  • Handle with masking plate 75 x 75 mm  • Degree of protection IP65</p>												
3VA9277-0FK21	Type	Color										
• Standard	Gray	✓ -- -- --	<b>3VA9137-0FK21</b>	1	1 unit	1CB						
		-- ✓ -- --	<b>3VA9277-0FK21</b>									
		-- -- -- ✓	<b>3VA9447-0FK21</b>									
• Standard, with illumination kit	Gray	✓ -- -- --	<b>3VA9137-0FK23</b>	1	1 unit	1CB						
		-- ✓ -- --	<b>3VA9277-0FK23</b>									
		-- -- -- ✓	<b>3VA9447-0FK23</b>									
• EMERGENCY-OFF	Yellow-red	✓ -- -- --	<b>3VA9137-0FK25</b>	1	1 unit	1CB						
		-- ✓ -- --	<b>3VA9277-0FK25</b>									
		-- -- -- ✓	<b>3VA9447-0FK25</b>									
• EMERGENCY-OFF, with illumination kit	Yellow-red	✓ -- -- --	<b>3VA9137-0FK27</b>	1	1 unit	1CB						
		-- ✓ -- --	<b>3VA9277-0FK27</b>									
		-- -- -- ✓	<b>3VA9447-0FK27</b>									
• Standard NEMA 1, 3R 12, with door open function	Gray	✓ -- -- --	<b>3VA9137-0FK31</b>	1	1 unit	1CB						
		-- ✓ -- --	<b>3VA9277-0FK31</b>									
		-- -- -- ✓	<b>3VA9447-0FK31</b>									
• Standard NEMA 1, 3R, 12, with door open function, with illumination kit	Gray	✓ -- -- --	<b>3VA9137-0FK33</b>	1	1 unit	1CB						
		-- ✓ -- --	<b>3VA9277-0FK33</b>									
		-- -- -- ✓	<b>3VA9447-0FK33</b>									
• EMERGENCY-OFF NEMA 1, 3R, 12, with door open function	Yellow-red	✓ -- -- --	<b>3VA9137-0FK35</b>	1	1 unit	1CB						
		-- ✓ -- --	<b>3VA9277-0FK35</b>									
		-- -- -- ✓	<b>3VA9447-0FK35</b>									
• EMERGENCY-OFF NEMA 1, 3R, 12, with door open function, with illumination kit	Yellow-red	✓ -- -- --	<b>3VA9137-0FK37</b>	1	1 unit	1CB						
		-- ✓ -- --	<b>3VA9277-0FK37</b>									
		-- -- -- ✓	<b>3VA9447-0FK37</b>									
• Standard NEMA 4/4X, with door open function	Gray	✓ -- -- --	<b>3VA9137-0FK41</b>	1	1 unit	1CB						
		-- ✓ -- --	<b>3VA9277-0FK41</b>									
		-- -- -- ✓	<b>3VA9447-0FK41</b>									
• Standard NEMA 4/4X, with door open function, with illumination kit	Gray	✓ -- -- --	<b>3VA9137-0FK43</b>	1	1 unit	1CB						
		-- ✓ -- --	<b>3VA9277-0FK43</b>									
		-- -- -- ✓	<b>3VA9447-0FK43</b>									
• EMERGENCY-OFF NEMA 4/4X, with door open function	Yellow-red	✓ -- -- --	<b>3VA9137-0FK45</b>	1	1 unit	1CB						
		-- ✓ -- --	<b>3VA9277-0FK45</b>									
		-- -- -- ✓	<b>3VA9447-0FK45</b>									
• EMERGENCY-OFF NEMA 4/4X, with door open function, with illumination kit	Yellow-red	✓ -- -- --	<b>3VA9137-0FK47</b>	1	1 unit	1CB						
		-- ✓ -- --	<b>3VA9277-0FK47</b>									
		-- -- -- ✓	<b>3VA9447-0FK47</b>									
<b>Supplementary handle for door mounted rotary operator (NFPA79)</b>												
Mandatory in compliance with NFPA79												
3VA9477-0GC01	Type	Color										
• Standard	Gray	✓ -- -- --	<b>3VA9137-0GC01</b>	1	1 unit	1CB						
		-- ✓ -- --	<b>3VA9477-0GC01</b>									
		-- -- -- ✓	<b>3VA9477-0GC11</b>									
• EMERGENCY-OFF	Yellow-red	✓ -- -- --	<b>3VA9137-0GC05</b>	1	1 unit	1CB						
		-- ✓ -- --	<b>3VA9477-0GC05</b>									
		-- -- -- ✓	<b>3VA9477-0GC15</b>									

## 3VA UL Molded Case Circuit Breakers

### Accessories and Spare Parts

#### Manual operators

	Version	For molded case circuit breakers/Article No. stem 3VA51 3VA52 3VA61 3VA63 3VA62 3VA64 d	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
 8UD1900-2WB00	<b>Shaft</b> 8 mm  Versions <ul style="list-style-type: none"><li>• 300 mm long</li><li>• 600 mm long</li></ul>						
			<b>8UD1900-2WA00</b>	1	1 unit	1CB	
			<b>8UD1900-2WB00</b>	1	1 unit	1CB	
 8UD1900-2DA00	<b>Adapter for shaft 8 mm x 8 mm</b> For door mounted rotary operator		<b>8UD1900-2DA00</b>	1	1 unit	1CB	
 8UD1900-2HA00	<b>Door coupling</b> 8 x 8 mm		<b>8UD1900-2HA00</b>	1	1 unit	1CB	
 3VA9477-0GA80	<b>Fixing bracket for shaft</b> 8 x 8 mm	✓ -- -- -- -- ✓ ✓ ✓	<b>3VA9137-0GA80</b> <b>3VA9477-0GA80</b>	1	1 unit	1CB	
 3VA9487-0GB10	<b>Variable depth adapter</b> 8 x 8 mm		<b>3VA9487-0GB10</b>	1	1 unit	1CB	
 8UD1900-2GA00	<b>Mounting tolerance compensation</b> 8 x 8 mm		<b>8UD1900-2GA00</b>	1	1 unit	1CB	

**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

**Manual operators**

	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>Side wall mounted rotary operators NEW</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>	Type	Color	✓	--	--	--	<b>3VA9137-0PK11</b>	1	1 unit	1CB						
		--	✓	✓	--	--	<b>3VA9277-0PK11</b>	1	1 unit	1CB							
		✓	--	--	--	--	<b>3VA9137-0PK13</b>	1	1 unit	1CB							
		--	✓	✓	--	--	<b>3VA9277-0PK13</b>	1	1 unit	1CB							
		✓	--	--	--	--	<b>3VA9137-0PK15</b>	1	1 unit	1CB							
	<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>	Type	Color	✓	--	--	--	<b>3VA9137-0PK51</b>	1	1 unit	1CB						
		--	✓	✓	--	--	<b>3VA9277-0PK51</b>	1	1 unit	1CB							
		✓	--	--	--	--	<b>3VA9137-0PK53</b>	1	1 unit	1CB							
		--	✓	✓	--	--	<b>3VA9277-0PK53</b>	1	1 unit	1CB							
		✓	--	--	--	--	<b>3VA9137-0PK55</b>	1	1 unit	1CB							
	<ul style="list-style-type: none"> <li>Extended DIN rail for N/PE terminal           <ul style="list-style-type: none"> <li>• For mounting plate</li> <li>• Up to 250 A</li> </ul> </li> </ul>	Type	Color	✓	--	--	--	<b>3VA9137-0PK57</b>	1	1 unit	1CB						
		--	✓	✓	--	--	<b>3VA9277-0PK57</b>	1	1 unit	1CB							
<b>Handles</b>	<ul style="list-style-type: none"> <li>Handles           <ul style="list-style-type: none"> <li>With masking plate</li> </ul> </li> </ul>	Type	Color	Tolerance compensation	Door open function			<b>3VA9987-0GL30</b>	1	1 unit	1CB						
		• Standard	Gray	Without	✓	✓	✓	--	<b>8UD1721-0AB11</b>	1	1 unit	1CB					
	<ul style="list-style-type: none"> <li>With masking plate</li> </ul>			With	✓	✓	✓	--	<b>8UD1721-0AB21</b>	1	1 unit	1CB					
				Without	--	--	--	✓	<b>8UD1731-0AB11</b>	1	1 unit	1CB					
				With	--	--	--	✓	<b>8UD1731-0AB21</b>	1	1 unit	1CB					
				Without	✓	✓	✓	--	<b>8UD1721-0AC11</b>	1	1 unit	1CB					
				With	✓	✓	✓	--	<b>8UD1721-0AC21</b>	1	1 unit	1CB					
				Without	--	--	--	✓	<b>8UD1731-0AC11</b>	1	1 unit	1CB					
				With	--	--	--	✓	<b>8UD1731-0AC21</b>	1	1 unit	1CB					
				Without	✓	✓	✓	--	<b>8UD1721-0AC15</b>	1	1 unit	1CB					
				With	✓	✓	✓	--	<b>8UD1721-0AC25</b>	1	1 unit	1CB					
				Without	--	--	--	✓	<b>8UD1731-0AC15</b>	1	1 unit	1CB					
				With	--	--	--	✓	<b>8UD1731-0AC25</b>	1	1 unit	1CB					

# 3VA UL Molded Case Circuit Breakers

## Accessories and Spare Parts

### Manual operators

	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
d							
<b>General accessories for manual operators</b>							
<b>Labeling plate for manual operators</b>							
	3VA9087-0SX10		<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 3VA5, 125 ... 250 A 3VA6, 150 ... 600 A 3VA5, 3VA6, 125 ... 600 A	Front mounted rotary operators Front mounted rotary operators Door mounted rotary operators	<b>8UD1900-0KA10</b> <b>8UD1900-0KA20</b> <b>8UD1900-0KA20</b>	1	1 unit 1CB
	8UD1900-0MB01	<b>Cylinder lock (type Kaba)</b> • For door mounted rotary operator (in the masking plate) • Standard masking plate	Key 1 Key 2 Key 3 Key 4		<b>8UD1900-0MB01</b> <b>8UD1900-0NB01</b> <b>8UD1900-0PB01</b> <b>8UD1900-0QB01</b>	1	1 unit 1CB
	8UD1900-0MB05	<b>Cylinder lock (type Kaba)</b> • For door mounted rotary operator (in the masking plate) • With door opening function • Standard masking plate	Key 1 Key 2 Key 3 Key 4		<b>8UD1900-0MC01</b> <b>8UD1900-0NC01</b> <b>8UD1900-0PC01</b> <b>8UD1900-0QC01</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 with shaft stub • For mounting in the adapter kit for the accessories compartment	Key 1 Key 2 Key 3 Key 4		<b>3VA9980-0VL10</b> <b>3VA9980-0VL20</b> <b>3VA9980-0VL30</b> <b>3VA9980-0VL40</b>	1	1 unit 1CB
<b>Note</b> 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)			<b>3VA9980-0LF20</b>	1	1 unit 1CB

## 3VA UL Molded Case Circuit Breakers

Accessories and Spare Parts

## Manual operators

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
	3VA51	3VA52	3VA61 3VA62	3VA63 3VA64	d						
<b>Operating unit with Bowden cable</b>											
	<b>Operating unit with Bowden cable (Max Flex operator)</b> Complete kit comprising: <ul style="list-style-type: none"><li>• Switching mechanism</li><li>• Handle steel, epoxy coated NEMA 1/3R/12, black = OFF, red = ON</li><li>• Bowden cable, 36 inches (0.9 m) long</li></ul>	✓	--	--	--		<b>3VA9138-0CK12</b>		1	1 unit	1CB
3VA9138-0CK12	--	✓	✓	--			<b>3VA9278-0CK12</b>		1	1 unit	1CB
	--	--	--	✓			<b>3VA9448-0CK12</b>		1	1 unit	1CB
<b>Individual parts or spare parts for operating unit with Bowden cable</b>											
	<b>Switching mechanism</b>	✓	--	--	--		<b>3VA9138-0CB10</b>		1	1 unit	1CB
3VA9278-0CB10	--	✓	✓	--			<b>3VA9278-0CB10</b>		1	1 unit	1CB
	--	--	--	✓			<b>3VA9448-0CB10</b>		1	1 unit	1CB
<b>Handle</b>											
	Versions						<b>3VA9978-0CH72</b>		1	1 unit	1CB
3VA9978-0CH82	• Steel, epoxy coated NEMA 1/3R/12, black = OFF, red = ON						<b>3VA9978-0CH74</b>		1	1 unit	1CB
	• Steel, epoxy coated black NEMA 1/3R/12, gray = OFF, gray = ON						<b>3VA9978-0CH82</b>		1	1 unit	1CB
<b>Bowden cable</b>											
	Versions						<b>3VA9278-0CC10</b>		1	1 unit	1CB
3VA9578-0CC10	• Bowden cable, 36 inches (0.9 m)	✓	✓	✓	--		<b>3VA9278-0CC20</b>		1	1 unit	1CB
	• Bowden cable, 48 inches (1.2 m)	✓	✓	✓	--		<b>3VA9278-0CC30</b>		1	1 unit	1CB
	• Bowden cable, 60 inches (1.5 m)	✓	✓	✓	--		<b>3VA9278-0CC40</b>		1	1 unit	1CB
	• Bowden cable, 72 inches (1.8 m)	✓	✓	✓	--		<b>3VA9278-0CC50</b>		1	1 unit	1CB
	• Bowden cable, 84 inches (2.1 m)	✓	✓	✓	--		<b>3VA9278-0CC60</b>		1	1 unit	1CB
	• Bowden cable, 96 inches (2.4 m)	✓	✓	✓	--		<b>3VA9278-0CC70</b>		1	1 unit	1CB
	• Bowden cable, 120 inches (3.0 m)	✓	✓	✓	--		<b>3VA9278-0CC80</b>		1	1 unit	1CB
	• Bowden cable, 144 inches (3.6 m)	✓	✓	✓	--		<b>3VA9578-0CC10</b>		1	1 unit	1CB
	• Bowden cable, 36 inches (0.9 m)	--	--	--	✓		<b>3VA9578-0CC20</b>		1	1 unit	1CB
	• Bowden cable, 48 inches (1.2 m)	--	--	--	✓		<b>3VA9578-0CC30</b>		1	1 unit	1CB
	• Bowden cable, 60 inches (1.5 m)	--	--	--	✓		<b>3VA9578-0CC40</b>		1	1 unit	1CB
	• Bowden cable, 72 inches (1.8 m)	--	--	--	✓		<b>3VA9578-0CC50</b>		1	1 unit	1CB
	• Bowden cable, 84 inches (2.1 m)	--	--	--	✓		<b>3VA9578-0CC60</b>		1	1 unit	1CB
	• Bowden cable, 96 inches (2.4 m)	--	--	--	✓		<b>3VA9578-0CC70</b>		1	1 unit	1CB
	• Bowden cable, 120 inches (3.0 m)	--	--	--	✓		<b>3VA9578-0CC80</b>		1	1 unit	1CB
	• Bowden cable, 144 inches (3.6 m)	--	--	--	✓						

## 3VA UL Molded Case Circuit Breakers

Accessories and Spare Parts

### Manual operators

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
	3VA51	3VA52	3VA61	3VA63	d						
<b>Auxiliary switches</b> Leading from On to Off											
Versions											
• 1 CO	✓	✓	✓	✓			<b>3VA9478-0CX10</b>		1	1 unit	1CB
• 2 CO	✓	✓	✓	✓			<b>3VA9478-0CX20</b>		1	1 unit	1CB



**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

**Motor operators****Overview****MO320 motor operator**

The MO320 motor operator is mounted on the front of the 3VA UL 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 MCCB position indicator which indicates ON and OFF and, via LED, whether the circuit breaker has tripped (TRIP). 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
- Even with a mounted MO320 the 3VA still meets the standards for isolating characteristics defined by IEC / EN 60947-1

**Design**

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

**Technical specifications**

MO320 motor operator	3VA5 125 A	3VA5 250 A	3VA6 150 A/ 250 A	400 A/ 600 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)			
Rating	250 W, max. 500 W (60 ms)			
Make time, typically	< 800 ms	< 1000 ms		< 1700 ms
Break time, typically	< 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
<b>Motor operators</b>							
<b>Motor operators without stored energy feature (MO320)</b>							
Versions							
• 24 ... 60 V DC	✓ -- -- --		<b>3VA9137-0HA10</b>	1	1 unit	1CB	
	-- ✓ -- --		<b>3VA9277-0HA10</b>	1	1 unit	1CB	
	-- -- -- ✓		<b>3VA9447-0HA10</b>	1	1 unit	1CB	
• 110 ... 230 V AC, 110 ... 250 V DC	✓ -- -- --		<b>3VA9137-0HA20</b>	1	1 unit	1CB	
	-- ✓ -- --		<b>3VA9277-0HA20</b>	1	1 unit	1CB	
	-- -- -- ✓		<b>3VA9447-0HA20</b>	1	1 unit	1CB	

# 3VA UL Molded Case Circuit Breakers

## Accessories and Spare Parts

### 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 UL molded case circuit breakers:

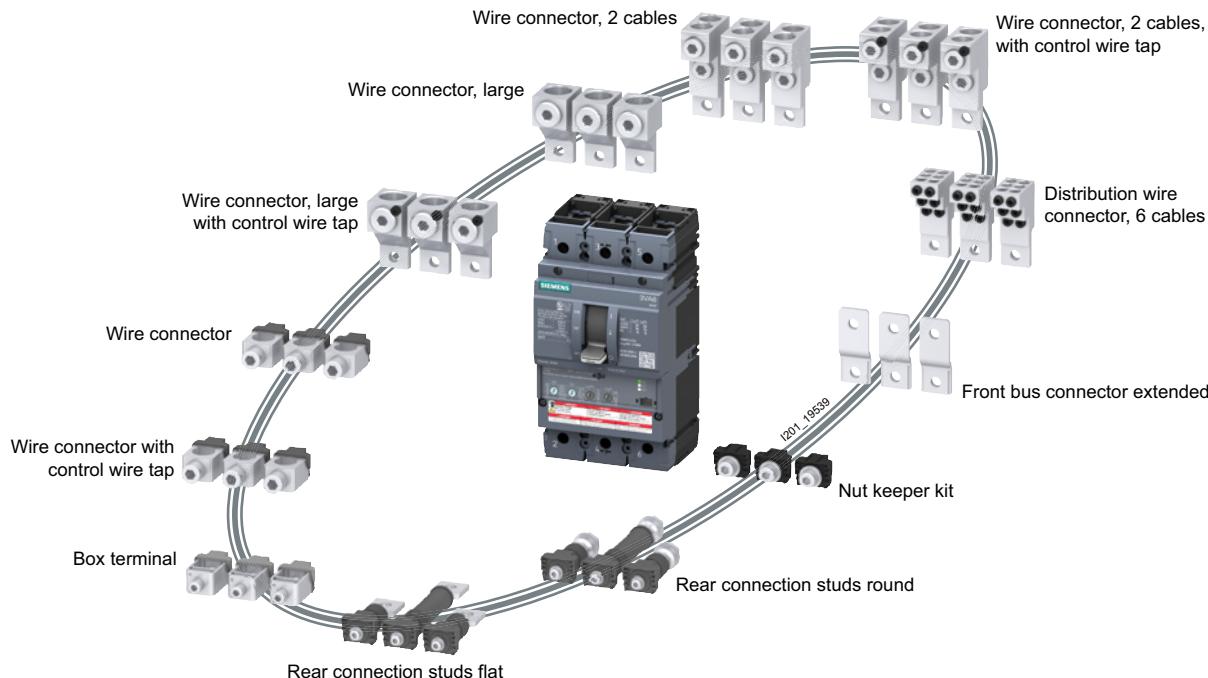
- Installation, e.g. connection to cables or busbars
- Dimensioning of the cables and busbars
- Installation medium, e.g. rigid or flexible

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

#### **Connection technology for the 3VA UL molded case circuit breaker**

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

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



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#### Note:

The following connection technologies are permissible for single-pole 3VA51 devices:

- Nut keeper
- Box terminal
- Aluminum/copper wire connector
- Front bus connector extended

Optionally, the versions with 3 or 4 single terminals/connection extensions can be ordered.

#### Note on 3VA6 100 % rated breakers:

All connection terminals except steel box terminals are permissible.

For molded case circuit breakers with 400 A rated current in the 600 A size and 250 A rated current in the 250 A size, only copper wire connectors are permissible.

**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

**Connection technology****UL conductor cross-sections**

Connection technology	Cable medium	Cables and busbars	3VA5		3VA6		
			125 A	250 A	250 A	400 A	600 A
Box terminal 	Solid	Cu cable	AWG 14 - AWG 10	AWG 10	AWG 10	--	--
	Stranded class B		AWG 14 - 3/0	AWG 10 - 3/0	AWG 10 - 3/0	1/0 - 500 kcmil	1/0 - 500 kcmil
	Stranded class C		AWG 14 - 3/0	AWG 10 - 3/0	AWG 10 - 3/0	1/0 - 500 kcmil	1/0 - 500 kcmil
Aluminum wire connector 	Solid	Al and Cu cable	AWG 14 - AWG 10	AWG 14 - AWG 10	AWG 14 - AWG 10	--	--
	Stranded class B		AWG 14 - 3/0	AWG 14 - 1/0	AWG 14 - 1/0	AWG 1 - 600 kcmil	--
	Stranded class C		AWG 14 - 3/0	AWG 14 - 1/0	AWG 14 - 1/0	AWG 1 - 600 kcmil	--
	Stranded class C		AWG 6 - 350 kcmil				
Aluminum wire connector, large 	Solid	Al and Cu cable	--	--	--	--	--
	Stranded class B		AWG 4 - 300 kcmil	AWG 2 - 350 kcmil	AWG 2 - 350 kcmil	--	--
	Stranded class C		AWG 4 - 300 kcmil	AWG 2 - 350 kcmil	AWG 2 - 350 kcmil	--	--
Aluminum wire connector for 2 cables 	Solid	Al and Cu cable	--	--	--	--	--
	Stranded class B		--	AWG 4 - 300 kcmil	AWG 4 - 300 kcmil	2/0 - 600 kcmil	2/0 - 600 kcmil
	Stranded class C		--	AWG 4 - 300 kcmil	AWG 4 - 300 kcmil	2/0 - 600 kcmil	2/0 - 600 kcmil
Aluminum wire connector for 6 cables 	Solid	Al and Cu cable	AWG 14 - AWG 10				
	Stranded class B		AWG 14 - AWG 2				
	Stranded class C		AWG 14 - AWG 2				
Copper wire connector 	Solid	Cu cable	AWG 14 - AWG 10	AWG 14 - AWG 10	AWG 14 - AWG 10	--	--
	Stranded class B		AWG 14 - 2/0	AWG 14 - 1/0	AWG 14 - 1/0	AWG 1 - 600 kcmil	--
	Stranded class C		AWG 14 - 2/0	AWG 14 - 1/0	AWG 14 - 1/0	AWG 1 - 600 kcmil	--
Copper wire connector for 2 cables 	Solid	Cu cable	--	--	--	--	--
	Stranded class B		--	--	--	2/0 - 600 kcmil	2/0 - 600 kcmil
	Stranded class C		--	--	--	2/0 - 600 kcmil	2/0 - 600 kcmil
Front busbar connector	Nut keeper kit (width x height)	Busbar	0.7 x 0.25 inch	1 x 0.3 inch	1.4 x 0.4 inch		
	Front bus connectors extended		0.9 x 0.3 inch	1.3 x 0.4 inch	1.6 x 0.5 inch		
	Front bus connectors offset		--	--	2.4 x 0.5 inch		

## 3VA UL Molded Case Circuit Breakers

### Accessories and Spare Parts

#### Connection technology

##### IEC conductor cross-sections

Connection technology	Cable medium	Cables and busbars	Dimensions	3VA5		3VA6		
				125 A	250 A	250 A	400 A	600 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
		Finely stranded cable	Cu cable	mm <sup>2</sup>	1.5 ... 50	10 ... 95 95 ... 150	10 ... 95 35 ... 150	25 ... 240
		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
		Flexible copper busbar	Flexible connecting bar	mm x mm	2x ..6x [13x 0.5] ... 2x ..9x [9x 0.8]	2x ..6x [13x 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 ..6x [20 x 1]	2x ..10x [20 x 1] ... 2x ..10x [24 x 1]
Aluminum wire connector	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
Aluminum 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	--
Aluminum wire connector for 2 cables	Solid cable			--	--	--	--	--
		Stranded cable	Cu/Al cable	mm <sup>2</sup>	--	25 ... 150	25 ... 150	70 ... 300
		Finely stranded cable	Cu cable	mm <sup>2</sup>	--	25 ... 150	25 ... 150	70 ... 240
		Finely stranded with insulated end sleeve	Cu cable	mm <sup>2</sup>	--	25 ... 70	25 ... 70	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
		Finely stranded cable	Cu cable	mm <sup>2</sup>	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
Busbar connection	Nut keeper kit (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

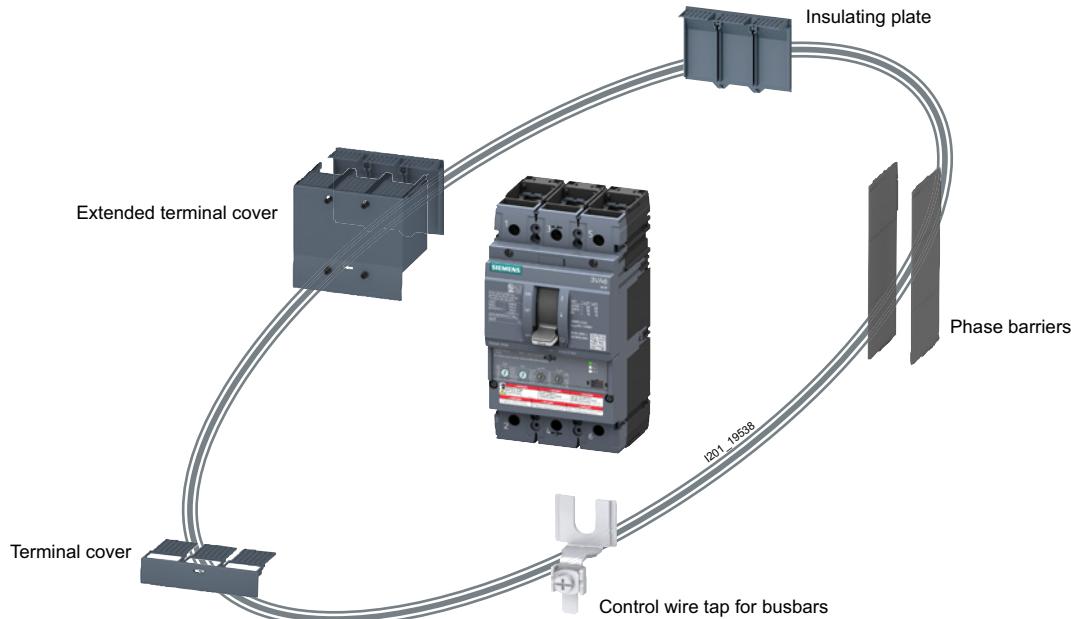
**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

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

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

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Control wire taps

All wire connectors can be ordered with or without control wire taps ([see page 1/10, Front terminals](#)). The following accessories are available to allow the implementation of a control wire tap in combination with a busbar connection:

- Control wire taps for busbars: This tap is attached by screws directly to the busbar.

All control wire taps are rated for a maximum load of 15 A. Cables of up to 2.5 mm<sup>2</sup> / AWG 14 can be connected.

**Benefits**

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

## 3VA UL Molded Case Circuit Breakers

### Accessories and Spare Parts

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

##### Selection and ordering data

	Version	Minimum cable cross-section (stranded) Class B	Maximum cable cross-section (stranded) Class B	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
<b>Box terminals</b>													
	<b>Box terminal</b> <ul style="list-style-type: none"><li>• Connection of Cu cable</li><li>• Included in scope of supply: 3 single terminals</li></ul>	AWG 14 3/0	AWG 4 350 kcmil	✓	--	--	--	3VA9133-0JA11		1	1 unit	1CB	
3VA9233-0JA12		AWG 10 3/0	--	--	✓	--	--	3VA9233-0JA12		1	1 unit	1CB	
		AWG 4 350 kcmil	--	--	✓	--	--	3VA9143-0JA12		1	1 unit	1CB	
		1/0 500 kcmil	--	--	--	✓	--	3VA9473-0JA13		1	1 unit	1CB	
	<b>Box terminal</b> <ul style="list-style-type: none"><li>• Connection of Cu cable</li><li>• Included in scope of supply: 4 single terminals</li></ul>	AWG 10 3/0	--	--	✓	--	--	3VA9144-0JA12		1	1 unit	1CB	
3VA9244-0JA12		AWG 4 350 kcmil	--	--	✓	--	--	3VA9244-0JA12		1	1 unit	1CB	
		1/0 500 kcmil	--	--	--	✓	--	3VA9474-0JA13		1	1 unit	1CB	
<b>Aluminum wire connectors</b>													
	<b>Wire connector</b> <ul style="list-style-type: none"><li>• Connection of Cu/Al cable</li><li>• Included in scope of supply: 3 single terminals</li></ul>	AWG 14 3/0	AWG 6 350 kcmil	✓	--	--	--	3VA9133-0JB11		1	1 unit	1CB	
3VA9243-0JB12		AWG 14 1/0	--	--	✓	--	--	3VA9233-0JB12		1	1 unit	1CB	
		AWG 6 350 kcmil	--	--	✓	--	--	3VA9143-0JB11		1	1 unit	1CB	
		AWG 6 350 kcmil	--	--	✓	--	--	3VA9243-0JB12		1	1 unit	1CB	
		AWG 1 600 kcmil	--	--	--	✓	--	3VA9373-0JB13		1	1 unit	1CB	
	<b>Wire connector</b> <ul style="list-style-type: none"><li>• Connection of Cu/Al cable</li><li>• Included in scope of supply: 4 single terminals</li></ul>	AWG 14 1/0	AWG 6 350 kcmil	--	--	✓	--	3VA9144-0JB11		1	1 unit	1CB	
3VA9244-0JB12		AWG 1 600 kcmil	--	--	✓	--	--	3VA9244-0JB12		1	1 unit	1CB	
		AWG 1 600 kcmil	--	--	--	✓	--	3VA9374-0JB13		1	1 unit	1CB	
	<b>Wire connector with control wire tap</b> <ul style="list-style-type: none"><li>• Connection of Cu/Al cable</li><li>• Included in scope of supply: 3 single terminals</li></ul>	AWG 14 3/0	AWG 6 350 kcmil	✓	--	--	--	3VA9133-0JG11		1	1 unit	1CB	
3VA9243-0JG12		AWG 14 1/0	--	--	✓	--	--	3VA9233-0JG12		1	1 unit	1CB	
		AWG 6 350 kcmil	--	--	✓	--	--	3VA9143-0JG11		1	1 unit	1CB	
		AWG 6 350 kcmil	--	--	✓	--	--	3VA9243-0JG12		1	1 unit	1CB	
		AWG 1 600 kcmil	--	--	--	✓	--	3VA9373-0JG13		1	1 unit	1CB	
	<b>Wire connector with control wire tap</b> <ul style="list-style-type: none"><li>• Connection of Cu/Al cable</li><li>• Included in scope of supply: 4 single terminals</li></ul>	AWG 14 1/0	AWG 6 350 kcmil	--	--	✓	--	3VA9144-0JG11		1	1 unit	1CB	
3VA9244-0JG12		AWG 1 600 kcmil	--	--	✓	--	--	3VA9244-0JG12		1	1 unit	1CB	
		AWG 1 600 kcmil	--	--	--	✓	--	3VA9374-0JG13		1	1 unit	1CB	
	<b>Wire connector, large</b> <ul style="list-style-type: none"><li>• Connection of Cu/Al cable</li><li>• Included in scope of supply: 3 single terminals and 1 extended terminal cover</li></ul>	AWG 4 300 kcmil	AWG 2 350 kcmil	✓	--	--	--	3VA9133-0JJ12		1	1 unit	1CB	
3VA9243-0JJ13		AWG 2 350 kcmil	--	--	✓	--	--	3VA9233-0JJ13		1	1 unit	1CB	
		AWG 2 350 kcmil	--	--	✓	--	--	3VA9243-0JJ13		1	1 unit	1CB	
	<b>Wire connector, large</b> <ul style="list-style-type: none"><li>• Connection of Cu/Al cable</li><li>• Included in scope of supply: 4 single terminals and 1 extended terminal cover</li></ul>	AWG 2 350 kcmil	--	--	✓	--	--	3VA9244-0JJ13		1	1 unit	1CB	
3VA9244-0JJ13													

**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

**Connection parts – suitable for all installation types (fixed mounting, plug-in and draw-out versions)**

	Version	Minimum cable cross-section (stranded) Class B	Maximum cable cross-section (stranded) Class B	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	
 3VA9243-0JC13	<b>Wire connector, large, with control wire tap</b> • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals and 1 extended terminal cover	AWG 4	300 kcmil	✓	--	--	--		<b>3VA9133-0JC12</b>		1	1 unit	1CB	
		AWG 2	350 kcmil	--	✓	--	--		<b>3VA9233-0JC13</b>		1	1 unit	1CB	
		AWG 2	350 kcmil	--	--	✓	--		<b>3VA9243-0JC13</b>		1	1 unit	1CB	
 3VA9244-0JC13	<b>Wire connector, large, with control wire tap</b> • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals and 1 extended terminal cover	AWG 2	350 kcmil	--	--	✓	--		<b>3VA9244-0JC13</b>		1	1 unit	1CB	
 3VA9243-0JJ22	<b>Wire connector, 2 cables</b> • Connection of Cu/Al cable • Included in scope of supply: 3 single terminals and 1 extended terminal cover	AWG 4	300 kcmil	--	✓	--	--		<b>3VA9233-0JJ22</b>		1	1 unit	1CB	
		AWG 4	300 kcmil	--	--	✓	--		<b>3VA9243-0JJ22</b>		1	1 unit	1CB	
		2/0	600 kcmil	--	--	--	✓		<b>3VA9473-0JJ23</b>		1	1 unit	1CB	
 3VA9244-0JJ22	<b>Wire connector, 2 cables</b> • Connection of Cu/Al cable • Included in scope of supply: 4 single terminals and 1 extended terminal cover	AWG 4	300 kcmil	--	--	✓	--		<b>3VA9244-0JJ22</b>		1	1 unit	1CB	
		2/0	600 kcmil	--	--	--	✓		<b>3VA9474-0JJ23</b>		1	1 unit	1CB	
		<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 extended terminal cover	AWG 4	--	✓	--	--		<b>3VA9233-0JC22</b>		1	1 unit	1CB	
 3VA9243-0JC22		AWG 4	300 kcmil	--	--	✓	--		<b>3VA9243-0JC22</b>		1	1 unit	1CB	
		2/0	600 kcmil	--	--	--	✓		<b>3VA9473-0JC23</b>		1	1 unit	1CB	
		<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 extended terminal cover	AWG 4	--	--	✓	--		<b>3VA9244-0JC22</b>		1	1 unit	1CB	
 3VA9244-0JC22		2/0	600 kcmil	--	--	--	✓		<b>3VA9474-0JC23</b>		1	1 unit	1CB	

## 3VA UL Molded Case Circuit Breakers

### Accessories and Spare Parts

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

	Version	Minimum cable cross-section (stranded)	Maximum cable cross-section (stranded)	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
		Class B	Class B	3VA51	3VA52	3VA61	3VA63	3VA62	3VA64 d				
 <b>3VA9243-0JF60</b>	<b>Distribution wire connector, 6 cables</b> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply: 3 single terminals and 1 extended terminal cover</li> </ul>	AWG 14	AWG 2	✓	--	--	--		<b>3VA9133-0JF60</b>		1	1 unit	1CB
			AWG 2	--	✓	--	--		<b>3VA9233-0JF60</b>		1	1 unit	1CB
			AWG 2	--	--	✓	--		<b>3VA9243-0JF60</b>		1	1 unit	1CB
			AWG 2	--	--	--	✓		<b>3VA9373-0JF60</b>		1	1 unit	1CB
 <b>3VA9244-0JF60</b>	<b>Distribution wire connector, 6 cables</b> <ul style="list-style-type: none"> <li>• Connection of Cu/Al cable</li> <li>• Included in scope of supply: 4 single terminals and 1 extended terminal cover</li> </ul>	AWG 14	AWG 2	--	--	✓	--		<b>3VA9244-0JF60</b>		1	1 unit	1CB
			AWG 2	--	--	--	✓		<b>3VA9374-0JF60</b>		1	1 unit	1CB
<b>Copper wire connectors</b>													
 <b>3VA9243-0JD12</b>	<b>Copper wire connector</b> <ul style="list-style-type: none"> <li>• Connection of Cu cable</li> <li>• Included in scope of supply: 3 single terminals</li> </ul>	AWG 14	2/0	✓	--	--	--		<b>3VA9133-0JD11</b>		1	1 unit	1CB
			AWG 6	350 kcmil	--	✓	--	--	<b>3VA9233-0JD12</b>		1	1 unit	1CB
			AWG 14	1/0	--	--	✓	--	<b>3VA9143-0JD11</b>		1	1 unit	1CB
			AWG 6	350 kcmil	--	--	✓	--	<b>3VA9243-0JD12</b>		1	1 unit	1CB
			AWG 1	600 kcmil	--	--	--	✓	<b>3VA9373-0JD13</b>		1	1 unit	1CB
 <b>3VA9244-0JD12</b>	<b>Copper wire connector</b> <ul style="list-style-type: none"> <li>• Connection of Cu cable</li> <li>• Included in scope of supply: 4 single terminals</li> </ul>	AWG 14	1/0	--	--	✓	--		<b>3VA9144-0JD11</b>		1	1 unit	1CB
			AWG 6	350 kcmil	--	--	✓	--	<b>3VA9244-0JD12</b>		1	1 unit	1CB
			AWG 1	600 kcmil	--	--	--	✓	<b>3VA9374-0JD13</b>		1	1 unit	1CB
 <b>3VA9243-0JK12</b>	<b>Copper wire connector, with control wire tap</b> <ul style="list-style-type: none"> <li>• Connection of Cu cable</li> <li>• Included in scope of supply: 3 single terminals</li> </ul>	AWG 14	2/0	✓	--	--	--		<b>3VA9133-0JK11</b>		1	1 unit	1CB
			AWG 6	350 kcmil	--	✓	--	--	<b>3VA9233-0JK12</b>		1	1 unit	1CB
			AWG 14	1/0	--	--	✓	--	<b>3VA9143-0JK11</b>		1	1 unit	1CB
			AWG 6	350 kcmil	--	--	✓	--	<b>3VA9243-0JK12</b>		1	1 unit	1CB
			AWG 1	600 kcmil	--	--	--	✓	<b>3VA9373-0JK13</b>		1	1 unit	1CB
 <b>3VA9244-0JK12</b>	<b>Copper wire connector, with control wire tap</b> <ul style="list-style-type: none"> <li>• Connection of Cu cable</li> <li>• Included in scope of supply: 4 single terminals</li> </ul>	AWG 14	1/0	--	--	✓	--		<b>3VA9144-0JK11</b>		1	1 unit	1CB
			AWG 6	350 kcmil	--	--	✓	--	<b>3VA9244-0JK12</b>		1	1 unit	1CB
			AWG 1	600 kcmil	--	--	--	✓	<b>3VA9374-0JK13</b>		1	1 unit	1CB
 <b>3VA9473-0JE23</b>	<b>Copper wire connector, 2 cables</b> <ul style="list-style-type: none"> <li>• Connection of Cu cable</li> <li>• Included in scope of supply: 3 single terminals and 1 extended terminal cover</li> </ul>	2/0	600 kcmil	--	--	--	✓		<b>3VA9473-0JE23</b>		1	1 unit	1CB

**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

**Connection parts – suitable for all installation types (fixed mounting, plug-in and draw-out versions)**

	Version	Minimum cable cross-section (stranded)	Maximum cable cross-section (stranded)	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
		Class B	Class B	3VA51	3VA52	3VA61	3VA63	3VA62	d					
	<b>Copper wire connector, 2 cables</b> • Connection of Cu cable • Included in scope of supply: 4 single terminals and 1 extended terminal cover	2/0	600 kcmil	--	--	--	✓			<b>3VA9474-0JE23</b>		1	1 unit	1CB
	<b>Copper wire connector, 2 cables, with control wire tap</b> • Connection of Cu cable • Included in scope of supply: 3 single terminals and 1 extended terminal cover	2/0	600 kcmil	--	--	--	✓			<b>3VA9473-0JL23</b>		1	1 unit	1CB
	<b>Copper wire connector, 2 cables, with control wire tap</b> • Connection of Cu cable • Included in scope of supply: 4 single terminals and 1 extended terminal cover	2/0	600 kcmil	--	--	--	✓			<b>3VA9474-0JL23</b>		1	1 unit	1CB

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	Version	Minimum terminal width	Maximum terminal width	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
				3VA51	3VA52	3VA61	3VA63	3VA62	d					
<b>Nut keeper kits</b>														
	<b>Nut keeper kit</b> Included in delivery: • 3 single terminals	17 mm / 0.7 inch	6.5 mm / 0.25 inch	✓	--	--	--			<b>3VA9133-0QA00</b>		1	1 unit	1CB
	<b>Nut keeper kit</b> Included in delivery: • 4 single terminals	25 mm / 1 inch	8 mm / 0.3 inch	--	✓	--	--			<b>3VA9233-0QA00</b>		1	1 unit	1CB
		25 mm / 1 inch	8 mm / 0.3 inch	--	--	✓	--			<b>3VA9243-0QA00</b>		1	1 unit	1CB
		35 mm / 1.4 inch	10 mm / 0.4 inch	--	--	--	✓			<b>3VA9473-0QA00</b>		1	1 unit	1CB
		25 mm / 1 inch	8 mm / 0.3 inch	--	--	✓	--			<b>3VA9244-0QA00</b>		1	1 unit	1CB
		35 mm / 1.4 inch	10 mm / 0.4 inch	--	--	--	✓			<b>3VA9474-0QA00</b>		1	1 unit	1CB

## 3VA UL Molded Case Circuit Breakers

### Accessories and Spare Parts

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

	Version	Minimum terminal width	Maximum terminal width	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
				3VA51	3VA52	3VA61	3VA63						
<b>Bus connector extensions</b>													
	<b>Front bus connectors extended</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 1 single connection</li></ul>	22 mm / 0.9 inch	8 mm / 0.3 inch	✓	--	--	--		<b>3VA9131-0QB00</b>		1	1 unit	1CB
3VA9131-0QB00													
	<b>Front bus connectors extended</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 3 single terminals</li><li>• 2 phase barriers</li><li>• 1 insulating plate</li></ul>	22 mm / 0.9 inch	8 mm / 0.3 inch	✓	--	--	--		<b>3VA9133-0QB00</b>		1	1 unit	1CB
3VA9133-0QB00													
	<b>Front bus connectors extended</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 3 single terminals</li><li>• 1 insulating plate</li></ul>	32 mm / 1.3 inch	10 mm / 0.4 inch	--	✓	✓	--		<b>3VA9273-0QB00</b>		1	1 unit	1CB
3VA9273-0QB00													
		40 mm / 1.6 inch	12.5 mm / 0.5 inch	--	--	--	✓		<b>3VA9473-0QB00</b>		1	1 unit	1CB
	<b>Note</b>	<i>Only permitted in conjunction with phase barriers! Phase barriers are included in the circuit breaker scope of supply or can be ordered as a spare part (3VA9...-WA00).</i>											
	<b>Front bus connectors extended</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 4 single terminals</li><li>• 1 insulating plate</li></ul>	32 mm / 1.3 inch	10 mm / 0.4 inch	--	--	✓	--		<b>3VA9274-0QB00</b>		1	1 unit	1CB
3VA9274-0QB00													
		40 mm / 1.6 inch	12.5 mm / 0.5 inch	--	--	--	✓		<b>3VA9474-0QB00</b>		1	1 unit	1CB
	<b>Note</b>	<i>Only permitted in conjunction with phase barriers! Phase barriers are included in the circuit breaker scope of supply or can be ordered as a spare part (3VA9...-WA00).</i>											
	<b>Front bus connectors offset</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 3 single terminals</li><li>• 1 insulating plate</li></ul> Distance between pole centers: 400/600 A = 70 mm / 2.76 inches	60 mm / 2.4 inches	12.5 mm / 0.5 inch	--	--	--	✓		<b>3VA9473-0QC00</b>		1	1 unit	1CB
3VA9473-0QC00													
	<b>Note</b>	<i>Only permitted in conjunction with phase barriers! Phase barriers are included in the circuit breaker scope of supply or can be ordered as a spare part (3VA9...-WA00).</i>											
	<b>Front bus connectors offset</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 4 single terminals</li><li>• 1 insulating plate</li></ul> Distance between pole centers: 400/600 A = 70 mm / 2.76 inches	60 mm / 2.4 inches	12.5 mm / 0.5 inch	--	--	--	✓		<b>3VA9474-0QC00</b>		1	1 unit	1CB
3VA9474-0QC00													
	<b>Note</b>	<i>Only permitted in conjunction with phase barriers! Phase barriers are included in the circuit breaker scope of supply or can be ordered as a spare part (3VA9...-WA00).</i>											

**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

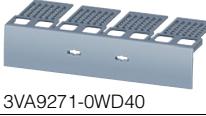
**Connection parts – suitable for all installation types (fixed mounting, plug-in and draw-out versions)**

	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	
		3VA51	3VA52	3VA61	3VA63	3VA62	3VA64	d				
<b>Rear connecting studs flat</b>												
	<b>Rear connecting studs flat</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 2 short studs with flat terminal</li><li>• 1 long stud with flat terminal</li></ul>	✓	--	--	--		<b>3VA9133-0QE00</b>		1	1 unit	1CB	
		--	✓	--	--		<b>3VA9233-0QE00</b>		1	1 unit	1CB	
		--	--	✓	--		<b>3VA9243-0QE00</b>		1	1 unit	1CB	
		--	--	--	✓		<b>3VA9473-0QE00</b>		1	1 unit	1CB	
3VA9243-0QE00	<b>Rear connecting studs flat</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 2 short studs with flat terminal</li><li>• 2 long studs with flat terminal</li></ul>	--	--	✓	--		<b>3VA9244-0QE00</b>		1	1 unit	1CB	
		--	--	--	✓		<b>3VA9474-0QE00</b>		1	1 unit	1CB	
	<b>Rear connecting stud flat</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 1 short stud with flat terminal</li></ul>	✓	--	--	--		<b>3VA9131-0QE10</b>		1	1 unit	1CB	
		--	✓	--	--		<b>3VA9231-0QE10</b>		1	1 unit	1CB	
		--	--	✓	--		<b>3VA9241-0QE10</b>		1	1 unit	1CB	
		--	--	--	✓		<b>3VA9471-0QE10</b>		1	1 unit	1CB	
3VA9241-0QE10	<b>Rear connecting stud flat</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 1 long stud with flat terminal</li></ul>	✓	--	--	--		<b>3VA9131-0QE20</b>		1	1 unit	1CB	
		--	✓	--	--		<b>3VA9231-0QE20</b>		1	1 unit	1CB	
		--	--	✓	--		<b>3VA9241-0QE20</b>		1	1 unit	1CB	
		--	--	--	✓		<b>3VA9471-0QE20</b>		1	1 unit	1CB	
3VA9241-0QE20	<b>Rear connecting studs round</b>	✓	--	--	--		<b>3VA9133-0QF00</b>		1	1 unit	1CB	
	<b>Rear connecting studs round</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 1 long stud with round terminal</li><li>• 2 short studs with round terminal</li></ul>	✓	--	--	--		<b>3VA9233-0QF00</b>		1	1 unit	1CB	
		--	--	✓	--		<b>3VA9243-0QF00</b>		1	1 unit	1CB	
		--	--	--	✓		<b>3VA9473-0QF00</b>		1	1 unit	1CB	
3VA9243-0QF00	<b>Rear connecting studs round</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 2 long studs with round terminal</li><li>• 2 short studs with round terminal</li></ul>	--	--	✓	--		<b>3VA9244-0QF00</b>		1	1 unit	1CB	
		--	--	--	✓		<b>3VA9474-0QF00</b>		1	1 unit	1CB	
	<b>Rear connecting stud round</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 1 short stud with round terminal</li></ul>	✓	--	--	--		<b>3VA9131-0QF10</b>		1	1 unit	1CB	
		--	✓	--	--		<b>3VA9231-0QF10</b>		1	1 unit	1CB	
		--	--	✓	--		<b>3VA9241-0QF10</b>		1	1 unit	1CB	
		--	--	--	✓		<b>3VA9471-0QF10</b>		1	1 unit	1CB	
3VA9244-0QF00	<b>Rear connecting stud round</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 1 short stud with round terminal</li></ul>	✓	--	--	--		<b>3VA9131-0QF20</b>		1	1 unit	1CB	
	<b>Rear connecting stud round</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 1 long stud with round terminal</li></ul>	--	✓	--	--		<b>3VA9231-0QF20</b>		1	1 unit	1CB	
		--	--	✓	--		<b>3VA9241-0QF20</b>		1	1 unit	1CB	
		--	--	--	✓		<b>3VA9471-0QF20</b>		1	1 unit	1CB	
3VA9241-0QF10	<b>Phase barriers</b>	✓	--	--	--		<b>3VA9132-0WA00</b>		1	1 unit	1CB	
	<b>Phase barriers</b> Included in scope of supply: <ul style="list-style-type: none"><li>• 2 phase barriers</li></ul>	--	✓	✓	--		<b>3VA9272-0WA00</b>		1	1 unit	1CB	
		--	--	--	✓		<b>3VA9472-0WA00</b>		1	1 unit	1CB	
3VA9272-0WA00												

## 3VA UL Molded Case Circuit Breakers

Accessories and Spare Parts

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

	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
		3VA51	3VA52	3VA61	3VA63						
		3VA62	3VA64	d							
<b>Terminal covers</b>											
	Terminal cover for 1-pole breakers	✓	--	--	--		<b>3VA9131-0WD10</b>		1	1 unit	1CB
3VA9131-0WD10											
	Terminal cover for 3-pole breakers	✓	--	--	--		<b>3VA9131-0WD30</b>		1	1 unit	1CB
3VA9271-0WD30		--	✓	✓	--		<b>3VA9271-0WD30</b>		1	1 unit	1CB
		--	--	--	✓		<b>3VA9471-0WD30</b>		1	1 unit	1CB
	Terminal cover for 4-pole breakers	--	--	✓	--		<b>3VA9271-0WD40</b>		1	1 unit	1CB
3VA9271-0WD40		--	--	--	✓		<b>3VA9471-0WD40</b>		1	1 unit	1CB
	Terminal cover extended for 3-pole breakers	✓	--	--	--		<b>3VA9131-0WF30</b>		1	1 unit	1CB
3VA9271-0WF30		--	✓	✓	--		<b>3VA9271-0WF30</b>		1	1 unit	1CB
		--	--	--	✓		<b>3VA9471-0WF30</b>		1	1 unit	1CB
	Terminal cover extended for 4-pole breakers	--	--	✓	--		<b>3VA9271-0WF40</b>		1	1 unit	1CB
3VA9271-0WF40		--	--	--	✓		<b>3VA9471-0WF40</b>		1	1 unit	1CB
	Terminal cover offset for 3-pole breakers	--	--	--	✓		<b>3VA9471-0WG30</b>		1	1 unit	1CB
3VA9471-0WG30											
	Terminal cover offset for 4-pole breakers	--	--	--	✓		<b>3VA9471-0WG40</b>		1	1 unit	1CB
3VA9471-0WG40											
<b>Insulating plates specially for fixed mounting</b>											
	Rear insulating plate extended, 3-pole	✓	--	--	--		<b>3VA9131-0WJ30</b>		1	1 unit	1CB
3VA9271-0WJ30		--	✓	✓	--		<b>3VA9271-0WJ30</b>		1	1 unit	1CB
		--	--	--	✓		<b>3VA9471-0WJ30</b>		1	1 unit	1CB

**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

**Connection parts – suitable for all installation types (fixed mounting, plug-in and draw-out versions)**

	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
		3VA51	3VA52	3VA61	3VA63					
	 3VA9271-0WJ40	--	--	✓	--	<b>3VA9271-0WJ40</b>	1	1 unit	1CB	
		--	--	--	✓	<b>3VA9471-0WJ40</b>	1	1 unit	1CB	
	 3VA9471-0WK30	--	--	--	✓	<b>3VA9471-0WK30</b>	1	1 unit	1CB	
	 3VA9471-0WK40	--	--	--	✓	<b>3VA9471-0WK40</b>	1	1 unit	1CB	
	<b>Control wire taps specially for fixed mounting</b>									
	 3VA9270-0WC00	--	✓	✓	--	<b>3VA9270-0WC00</b>	1	1 unit	1CB	
		--	--	--	✓	<b>3VA9470-0WC00</b>	1	1 unit	1CB	

## 3VA UL Molded Case Circuit Breakers

### Accessories and Spare Parts

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

##### Overview

Using plug-in and draw-out technology the 3VA UL 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 connectors of the plug-in socket or the draw-out socket.

The incoming and outgoing feeder ends of the socket unit termination area are designed to match the relevant 3VA UL molded case circuit breaker. The major benefit of this design feature is that all terminal and connection variants of the molded case circuit breaker are fully compatible with the corresponding plug-in or draw-out unit.

A 3VA UL 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 UL breaker that make a friction-locked and keyed connection with the corresponding connectors in the plug-in socket. The plug-in unit can be supplied as a complete kit or as a conversion kit for breakers including screw-fastened terminal covers.

##### Draw-out technology

Draw-out versions of the molded case circuit breaker are also equipped with plug-in contacts at the main current paths. In addition, side walls including guide and support bolts are bolted to the sides of the molded case circuit breaker. With this version, the mating component is the draw-out socket. It is also equipped with a guide mechanism via which the molded case circuit breaker is moved into the draw-out socket by means of a crank 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 wires. 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.

##### Note:

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

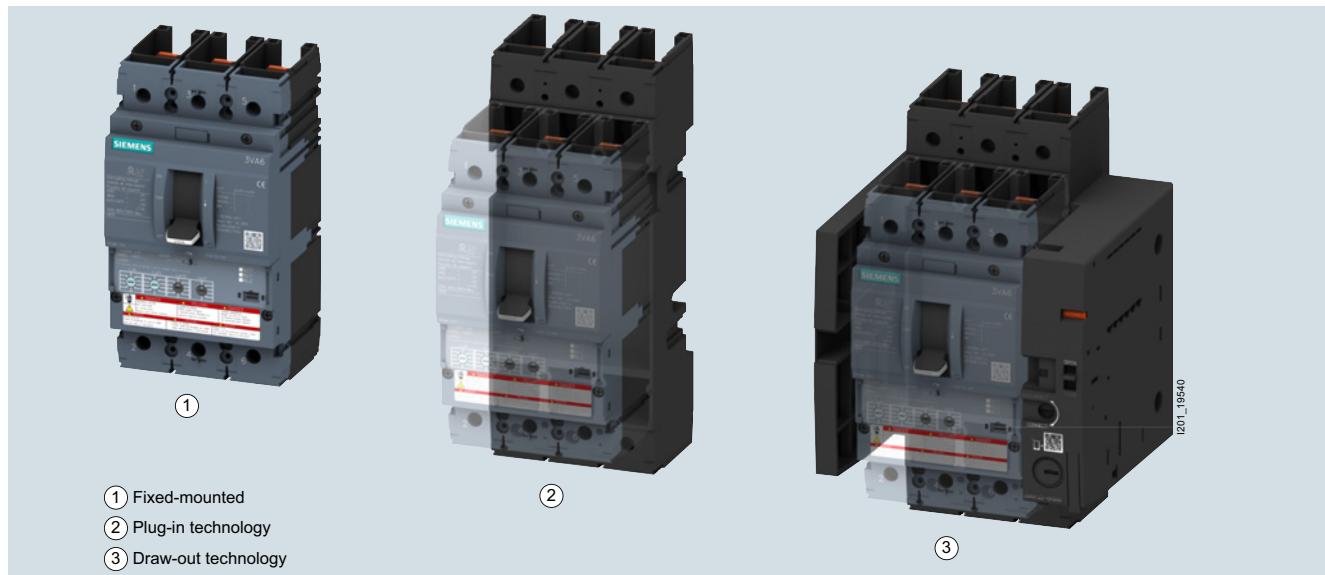
Special plug-in and draw-out sockets are available for the breaker size 600 A (3VA64). Offset bus connectors are also supplied in this case. For temperature reasons, only this connection technology is possible with this breaker size. For temperature reasons, 100 % rated breakers cannot be used with plug-in or draw-out technology.

##### 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 UL molded case circuit breaker from being plugged in or moved in
- Identical connection technology for all molded case circuit breakers, whether they are plug-in, draw-out or fixed-mounted units
- Test of the auxiliary and control circuit connections in the test position of the draw-out unit possible without contacted main current paths

##### Installation variants

3VA6 molded case circuit breakers are available in the following installation variants:

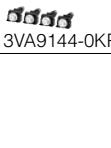


- (1) Fixed-mounted
- (2) Plug-in technology
- (3) Draw-out technology

**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

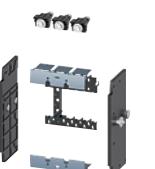
**Plug-in and draw-out technology****Selection and ordering data**

	Version	For molded case circuit breakers/Article No. stem 3VA61 3VA62	3VA63	3VA64	SD d	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>Plug-in socket</b>										
<b>Plug-in unit, complete kit</b>										
Comprising:										
• Plug-in socket										
• Plug-in unit, conversion kit										
• Mounting screw kit										
<b>Versions</b>										
• 3-pole		✓	--	--		<b>3VA9143-0KP00</b>		1	1 unit	1CB
		--	✓ NEW	--		<b>3VA9343-0KP00</b>		1	1 unit	1CB
		--	--	✓ NEW		<b>3VA9443-0KP00</b>		1	1 unit	1CB
										
<b>3VA9143-0KP00</b>										
										
<b>3VA9144-0KP00</b>										
• 4-pole		✓	--	--		<b>3VA9144-0KP00</b>		1	1 unit	1CB
		--	✓ NEW	--		<b>3VA9344-0KP00</b>		1	1 unit	1CB
		--	--	✓ NEW		<b>3VA9444-0KP00</b>		1	1 unit	1CB
										
<b>3VA9144-0KP00</b>										
<b>Plug-in unit, conversion kit</b>										
Comprising:										
• Screw-fastened terminal covers for molded case circuit breakers										
• Plug-in contacts										
• Cable cage										
• Autotrip plunger										
<b>Versions</b>										
• 3-pole		✓	--	--		<b>3VA9143-0KP10</b>		1	1 unit	1CB
		--	✓ NEW	✓ NEW		<b>3VA9343-0KP10</b>		1	1 unit	1CB
										
<b>3VA9143-0KP10</b>										
										
<b>3VA9144-0KP10</b>										
• 4-pole		✓	--	--		<b>3VA9144-0KP10</b>		1	1 unit	1CB
		--	✓ NEW	✓ NEW		<b>3VA9344-0KP10</b>		1	1 unit	1CB
										
<b>3VA9144-0KP10</b>										

## 3VA UL Molded Case Circuit Breakers

Accessories and Spare Parts

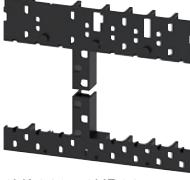
### Plug-in and draw-out technology

	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>Draw-out units</b>													
<b>Draw-out unit, complete kit</b> Comprising: <ul style="list-style-type: none"> <li>• Draw-out socket</li> <li>• Draw-out unit, conversion kit</li> <li>• Mounting screw kit</li> </ul>													
 <b>3VA9143-OKD00</b>													
<b>Versions</b>													
 <b>3VA9144-OKD00</b>	• 3-pole	✓	--	--		<b>3VA9143-0KD00</b>	1	1 unit	1CB				
		--	✓ NEW	--		<b>3VA9343-0KD00</b>	1	1 unit	1CB				
		--	--	✓ NEW		<b>3VA9443-0KD00</b>	1	1 unit	1CB				
 <b>3VA9144-OKD00</b>	• 4-pole	✓	--	--		<b>3VA9144-0KD00</b>	1	1 unit	1CB				
		--	✓ NEW	--		<b>3VA9344-0KD00</b>	1	1 unit	1CB				
		--	--	✓ NEW		<b>3VA9444-0KD00</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 wall</li> <li>• Plug-in contacts</li> <li>• Cable cage</li> <li>• Autotrip plunger</li> </ul>													
 <b>3VA9143-OKD10</b>													
<b>Versions</b>													
 <b>3VA9144-OKD10</b>	• 3-pole	✓	--	--		<b>3VA9143-0KD10</b>	1	1 unit	1CB				
		--	✓ NEW	✓ NEW		<b>3VA9343-0KD10</b>	1	1 unit	1CB				
 <b>3VA9144-OKD10</b>	• 4-pole	✓	--	--		<b>3VA9144-0KD10</b>	1	1 unit	1CB				
		--	✓ NEW	✓ NEW		<b>3VA9344-0KD10</b>	1	1 unit	1CB				

**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

**Plug-in and draw-out technology**

	Version	For molded case circuit breakers/Article No. stem 3VA61 3VA62	SD 3VA63	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>Cable cage</b>								
	<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		✓	--	<b>3VA9167-0KB02</b>		1	1 unit 1CB
3VA9167-0KB02								
<b>Door feedthrough</b>								
	<b>Door feedthrough</b>		✓	--	<b>3VA9147-0KT00</b>		1	1 unit 1CB
3VA9147-0KT00								
<b>Spare part: Autotrip plunger</b>								
	<b>Autotrip plunger</b> <ul style="list-style-type: none"><li>Accessories for plug-in unit</li><li>Accessories for draw-out unit</li></ul>		✓	--	<b>3VA9267-0KP81</b>		1	1 unit 1CB
3VA9267-0KP81								

	Version	For molded case circuit breakers/ Article No. stem 3VA61 3VA62	SD 3VA63 3VA64	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>Terminal covers</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>							
Versions								
	• 3-pole		✓	--	<b>3VA9143-0KB01</b>		1	1 unit 1CB
3VA9143-0KB01								
			--	✓ NEW	<b>3VA9343-0KB01</b>		1	1 unit 1CB
	• 4-pole		✓	--	<b>3VA9144-0KB01</b>		1	1 unit 1CB
3VA9144-0KB01								
			--	✓ NEW	<b>3VA9344-0KB01</b>		1	1 unit 1CB

## 3VA UL Molded Case Circuit Breakers

### Accessories and Spare Parts

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

	Version	SD d	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>							
	<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>3VA9977-0KC00</b>		1	1 unit	1CB
	<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>3VA9977-0KB00</b>		1	1 unit	1CB
	<b>Spare connecting cable</b> To connect the position signaling switches for communication with the COM060		<b>3VA9987-0KC10</b>		1	1 unit	1CB
	<b>Crank handle for draw-out unit</b> Insulated, incl. crank holder		<b>3VA9987-0KD81</b>		1	1 unit	1CB
	<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>3VA9977-0KD80</b>		1	1 unit	1CB
			<b>3VA9977-0KP80</b>		1	1 unit	1CB
<b>4</b>							
	Version	SD d	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>Cylinder lock (type Ronis)</b> <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 with shaft stub</li><li>• For mounting in the adapter kit for the accessories compartment</li></ul>		<b>3VA9980-0VL10</b>		1	1 unit	1CB
	<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>3VA9970-0LF40</b>		1	1 unit	1CB

# 3VA UL Molded Case Circuit Breakers

## Accessories and Spare Parts

### Communication and testing/commissioning devices

#### Overview

##### Metering function

The Rogowski coils integrated in the 3VA6 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 3VA6 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 3VA6 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 3VA6 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 3VA6 molded case circuit breakers can be integrated into the relevant communication networks via the following optional expansion modules:

- Switched Ethernet PROFINET IO
- PROFIBUS DPV1
- RS 485 / Modbus RTU

3VA UL molded case circuit breakers are integrated in STEP 7 (TIA Portal), Version 14 or higher, and an additional engineering tool is not required. GSD and GSDML files are available for integration in third-party systems.

##### DSP800 display

The DSP800 display can be used to show breaker information (status, measured values, parameters) on the cubicle door. It communicates via the integral Ethernet interface with the COM800/COM100 and is thus able to display the data of up to 8 3VA6 molded case circuit breakers simultaneously.

##### EFB300 external function box

The EFB300 external function box is linked directly to the ETU of the 3VA6 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 3VA6 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

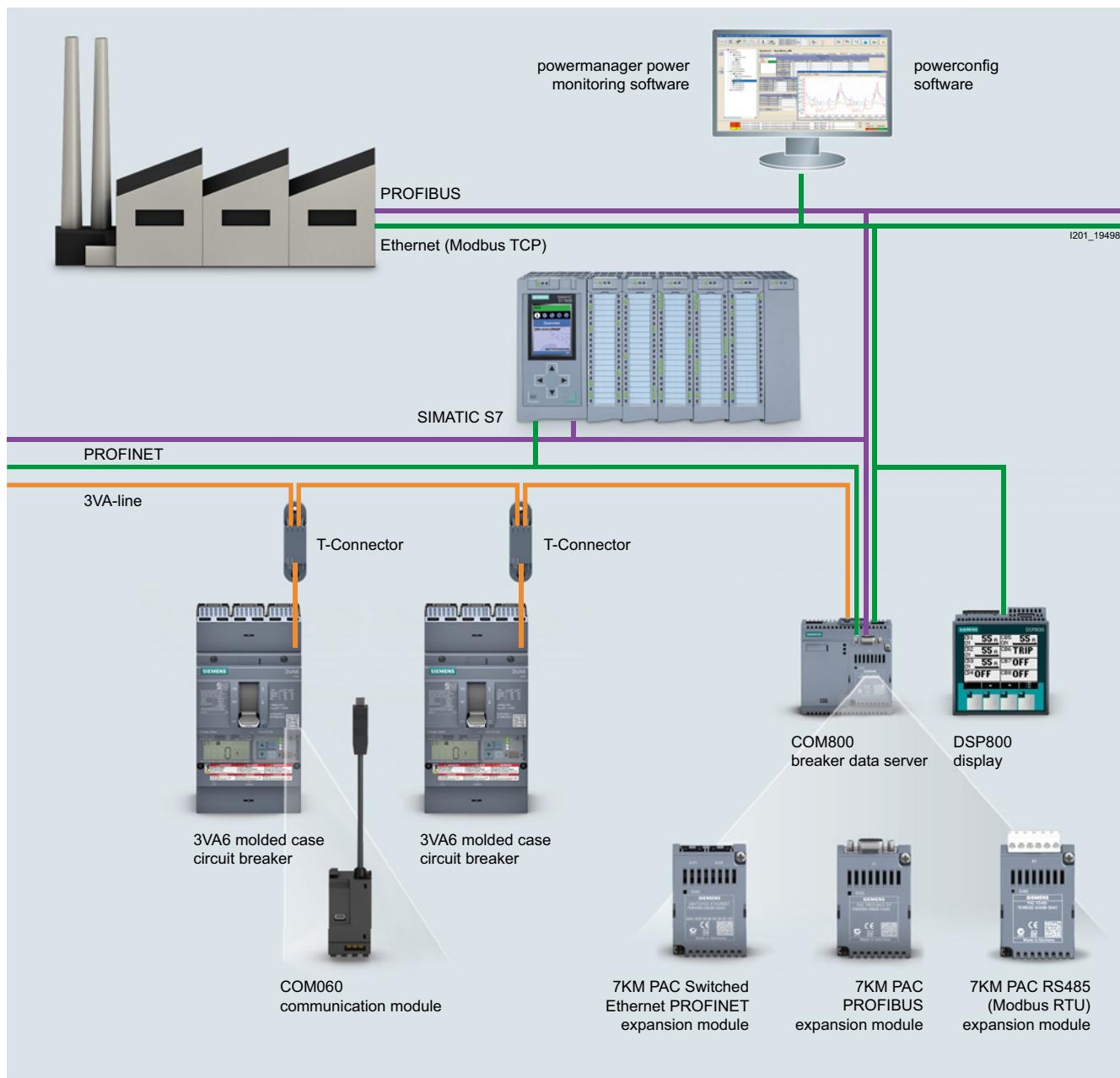
- The metering function integrated in 8-series ETUs can acquire energy data without requiring additional external transformers
- The COM800 breaker data server provides a cost-efficient communication interface for up to 8 3VA6 molded case circuit breakers
- Universal bus interfaces are available for the COM800/COM100 breaker data server
- Standardized engineering thanks to integration in STEP 7 (TIA Portal)
- Universal S0 interface for the output of energy pulses
- 100 test results can be stored with the TD500 test device
- Status and measured values of up to 8 molded case circuit breakers are displayed in the cubicle door using the DSP800

## 3VA UL Molded Case Circuit Breakers

Accessories and Spare Parts

### Communication and testing/commissioning devices

#### Design



**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

**Communication and testing/commissioning devices****Overview of the metering functions**

Metering function <sup>1)</sup>			ETUs of the 5-series	ETUs of the 8-series	Display Display in ETU	DSP800	Communication COM800/COM100
<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	✓	✓	⌚	⌚	⌚
Average value over the three phase currents	$I_{\text{LAVG}} = (I_1 + I_2 + I_3) / 3$	A	--	✓	--	⌚	⌚
Unbalance of the phase currents	$I_{\text{nba}}$	%	--	✓	--	⌚	⌚
THD of the 3 phases	THDI <sub>1</sub> , THDI <sub>2</sub> , THDI <sub>3</sub>	%	--	✓	--	⌚	⌚
<b>Voltage</b>							
Phase voltages incl. average value	$U_{12}, U_{23}, U_{31}, U_{\text{phavg}}$	V	--	✓	⌚	⌚	⌚
Voltages to N conductor incl. average value	$U_{1N}, U_{2N}, U_{3N}, U_{\text{Navg}}$	V	--	✓	--	⌚	⌚
Voltage unbalance		%	--	✓	--	⌚	⌚
THD phase/phase and phase/N	THDI <sub>1</sub> , THDI <sub>2</sub> , THDI <sub>3</sub>	%	--	✓	--	⌚	⌚
<b>Power</b>							
Active power, total and per phase	$P_1, P_2, P_3, P_{\text{tot}}$	kW	--	✓	⌚ (P <sub>tot</sub> )	⌚	⌚
Apparent power, total and per phase	$S_1, S_2, S_3, S_{\text{tot}}$	kVA	--	✓	--	⌚	⌚
Reactive power, total and per phase	$Q_1, Q_2, Q_3, Q_{\text{tot}}$	kVAr	--	✓	⌚	⌚	⌚
Power factor of the fundamental	PF <sub>1</sub> , PF <sub>2</sub> , PF <sub>3</sub> , PF <sub>avg</sub>		--	✓	⌚ (PF <sub>avg</sub> )	⌚	⌚
<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	--	--	--	--	⌚

1) Depending on ETU version

✓ Available

-- Not available

⌚ Displayable

## 3VA UL Molded Case Circuit Breakers

### Accessories and Spare Parts

#### 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	$0.2 \times I_b \dots 1.2 \times I_b$	$\pm 1\%$
Voltage (L-N)	$80 \text{ V} < U < 480 \text{ V}$	$\pm 1\%$
THD current	Up to the 19th harmonic $0.2 \times I_b \dots 1.2 \times I_b$	$\pm 5\%$
THD voltage	Up to the 19th harmonic $80 \text{ V} < U < 480 \text{ V}$	$\pm 5\%$
Power factor PF	$0.2 \times I_b \dots 1.2 \times I_b$	$\pm 0.05\%$ 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	$0.2 \times I_b \dots 1.2 \times I_b$	$\pm 2\%$
Apparent power	PF $\geq 0.6$ inductive PF $\geq 0.8$ capacitive	
Reactive energy	$0.2 \times I_b \dots 1.2 \times I_b$	$\pm 2\%$
Apparent energy	PF $\geq 0.6$ inductive PF $\geq 0.8$ capacitive	
Frequency	$80 \text{ V} < U < 480 \text{ V}$	$\pm 0.1\%$

##### Legend:

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

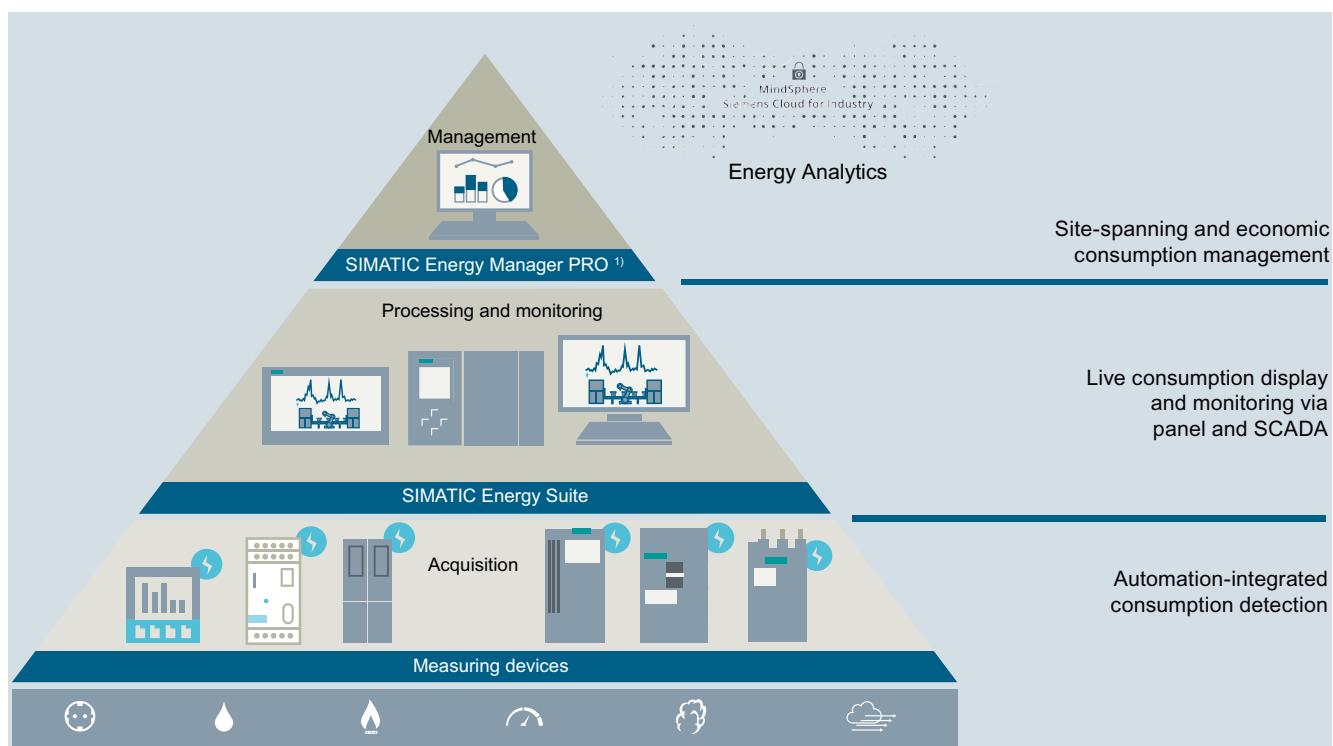
Example: 3VA21  $\rightarrow I_b = 160 \text{ A}$

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

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

**3VA UL Molded Case Circuit Breakers**

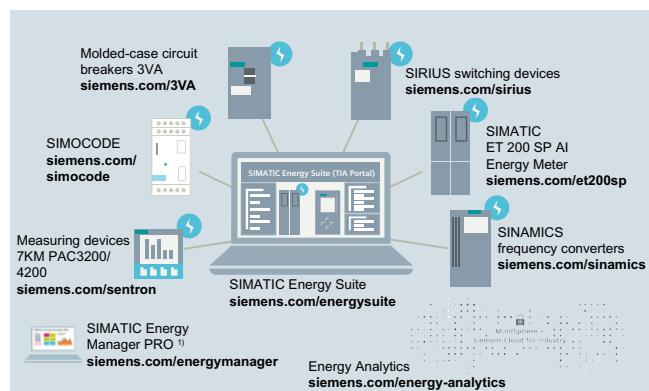
Accessories and Spare Parts

**Communication and testing/commissioning devices****Integrated energy management**

4

**Highlights**

- Simple and intuitive configuration instead of programming
- Automatic generation of the PLC energy program
- Convenient integration of measuring components from the Siemens portfolio and from other manufacturers
- Integrated into TIA Portal and the automation system
- Archiving in WinCC Professional or PLC
- Seamless interfacing to Energy Manager PRO and Energy Analytics



**Ready for  
SIMATIC  
Energy Suite**

For more information on SIMATIC Energy Suite:  
[www.siemens.com/energysuite](http://www.siemens.com/energysuite)

<sup>1)</sup> SIMATIC Energy Manager PRO is the innovative successor of SIMATIC B.Data

<sup>2)</sup> Products from the SIMATIC, SENTRON, SINAMICS, SIRIUS and SIMOCODE product families. You will find details of currently supported devices here: [www.siemens.com/energysuite-hardware](http://www.siemens.com/energysuite-hardware)

## 3VA UL Molded Case Circuit Breakers

### Accessories and Spare Parts

#### 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>		3VA61 3VA63 3VA62 3VA64	d					
	<b>24 V module</b> <ul style="list-style-type: none"><li>• 24 V DC</li><li>• For mounting in the right-hand accessories compartment of the 3VA6</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>3VA9177-0TB50</b> <b>3VA9377-0TB50</b>		1 1 unit 1CB 1 1 unit 1CB		
3VA9177-0TB50								
<b>Communication accessories in the molded case circuit breaker</b>								
	<b>COM060 communication module</b> <ul style="list-style-type: none"><li>• For mounting in the right-hand accessories compartment of the 3VA6 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>3VA9177-0TB10</b> <b>3VA9377-0TB10</b>		1 1 unit 1CB 1 1 unit 1CB		
3VA9177-0TB10								
<b>Breaker data server</b>								
	<b>COM800 breaker data server</b> <ul style="list-style-type: none"><li>• 2 terminating resistors</li><li>• Central communication module for connecting up to eight 3VA6 molded case circuit breakers via the 3VA-line</li><li>• Ethernet 10/100 Mbit/s interface</li><li>• Module slot for plugging on an optional PROFIBUS DP, PROFINET or RS 485 module</li></ul>			<b>3VA9977-0TA10</b>		1 1 unit 1CB		
3VA9977-0TA10								
	<b>COM100 breaker data server</b> <ul style="list-style-type: none"><li>• 2 terminating resistors</li><li>• Optimized, central communication module for connecting a 3VA6 molded case circuit breaker via the 3VA-line</li><li>• Ethernet 10/100 Mbit/s interface</li><li>• Module slot for plugging on an optional PROFIBUS DP, PROFINET or RS 485 module</li></ul>			<b>3VA9977-0TA20</b>		1 1 unit 1CB		
3VA9977-0TA20								
	<b>7KM PAC PROFIBUS DP expansion module</b> <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		
7KM9300-0AB01-0AA0								
	<b>7KM PAC Switched Ethernet PROFINET expansion module</b> <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 connected 3VA molded cased circuit breaker, 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		
7KM9300-0AE01-0AA0								
	<b>7KM PAC RS 485 Modbus RTU expansion module</b> <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		
7KM9300-0AM00-0AA0								

**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

**Communication and testing/commissioning devices**

	Version	SD d	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> <ul style="list-style-type: none"><li>Spare part</li><li>Provides spur line feeder to COM060 and loops through to the next circuit breaker.</li><li>Includes a connection adapter for mounting on the 3VA6 breaker enclosure</li></ul>		<b>3VA9987-0TG10</b>		1	1 unit	1CB
3VA9987-0TG10							
	<b>DIN rail adapter</b> For snapping the T-Connector onto a DIN rail.		<b>3VA9987-0TG11</b>		1	1 unit	1CB
3VA9987-0TG11							
	<b>Preassembled T-Connector-to-T-Connector or T-Connector-to-COM800/COM100 connecting cable</b> <ul style="list-style-type: none"><li>0.4 m long</li><li>1 m long</li><li>2 m long</li><li>4 m long</li></ul>		<b>3VA9987-0TC10</b>		1	1 unit	1CB
3VA9987-0TC10			<b>3VA9987-0TC20</b>		1	1 unit	1CB
			<b>3VA9987-0TC30</b>		1	1 unit	1CB
			<b>3VA9987-0TC40</b>		1	1 unit	1CB
	<b>Preassembled connecting cable for extending the COM060-to-T-Connector spur line connection</b> <ul style="list-style-type: none"><li>0.4 m long</li><li>0.8 m long</li></ul>		<b>3VA9987-0TF20</b>		1	1 unit	1CB
3VA9987-0TF20			<b>3VA9987-0TF10</b>		1	1 unit	1CB
	<b>Additional bus terminating resistors</b>		<b>3VA9987-0TE10</b>		1	5 units	1CB
3VA9987-0TE10							
	<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
3VA9987-0UC10							
	<b>External current transformer as straight-through transformer</b> <span style="background-color: orange; border-radius: 5px; padding: 2px;">NEW</span> Connection of an external current transformer for the N conductor for 3-pole 3VA6 molded case circuit breakers for 5-series and 8-series ETUs (ETU850, ETU856, ETU860), including connecting cable <ul style="list-style-type: none"><li><math>I_n = 25 \dots 150 A</math></li><li><math>I_n = 160 \dots 350 A</math></li><li><math>I_n = 400 \dots 630 A</math></li></ul>		<b>3VA9077-0NA10</b>		1	1 unit	1CB
3VA9077-0NA10			<b>3VA9177-0NA10</b>		1	1 unit	1CB
			<b>3VA9377-0NA10</b>		1	1 unit	1CB
<b>Display</b>							
	<b>DSP800 display</b> <ul style="list-style-type: none"><li>For displaying the status, measured values and parameters of up to 8 3VA6 molded case circuit breakers</li><li>Connection to the COM800/COM100 via Ethernet for displaying information of the COM800/COM100 and the connected 3VA6 molded case breaker</li></ul>		<b>3VA9977-0TD10</b>		1	1 unit	1CB
3VA9977-0TD10							

## 3VA UL Molded Case Circuit Breakers

### Accessories and Spare Parts

#### Communication and testing/commissioning devices

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<b>External function box</b>							
	<b>EFB300</b> • External function box for connection to the ETU of the 3VA6 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>3VA9977-0UA10</b>			1	1 unit 1CB
3VA9977-0UA10	<b>Connecting cable for EFB300</b> Spare part • Length 1.5 m • Length 3.0 m • Length 3.0 m for 3VA6 with EFB and RCD820		<b>3VA9987-0UB10</b> <b>3VA9987-0UB20</b> <b>3VA9987-0UB30</b>			1	1 unit 1CB
<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>3VA9977-0MA10</b>			1	1 unit 1CB
3VA9977-0MA10	<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 unit with adapter for Europe, UL and GB • Including connecting cable to the 3VA6 molded case circuit breaker		<b>3VA9977-0MB10</b>			1	1 unit 1CB
	<b>Spare part: External power supply for TD500</b> Spare part 110 ... 240 V AC		<b>3VA9987-0MX10</b>			1	1 unit 1CB
3VA9977-0MB10	<b>Spare part: Cable for connecting the TD500 to the 3VA6 molded case circuit breaker</b>		<b>3VA9977-0MY10</b>			1	1 unit 1CB
							
							
3VA9987-0MX10							
							
3VA9977-0MY10							

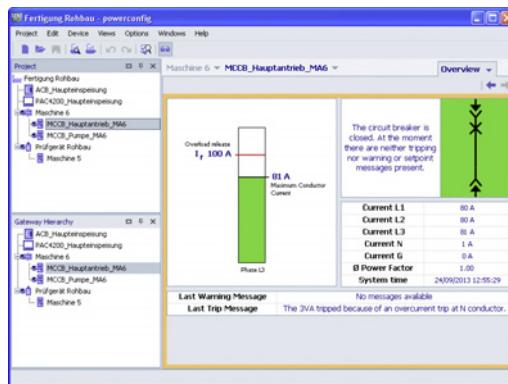
# 3VA UL Molded Case Circuit Breakers

## Accessories and Spare Parts

### Communication and testing/commissioning devices

Version	d	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

#### Commissioning and service software: powerconfig



- Commissioning and service software for 3VA6 molded case circuit breakers and further SENTRON components
- For Windows 7 and Windows 8
- Connection via TD500 or COM800/COM100
- Languages: English, German, Chinese, Spanish, Portuguese and Italian
- Enables complete use of the electronic components of the 3VA6 such as ETU, EFB300, DSP800, TD500
- Communication via PROFINET, PROFIBUS, Ethernet Modbus TCP and RS 485 with Modbus RTU
- See Catalog LV 10, "Software" "Configuring, visualizing and controlling with SENTRON".
- powerconfig can be downloaded free of charge from Siemens Industry Online Support at <http://support.automation.siemens.com/WW/view/en/63452759>
- More information can be found on the Internet at: [www.siemens.com/sentron](http://www.siemens.com/sentron)

# 3VA UL Molded Case Circuit Breakers

## Accessories and Spare Parts

### 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

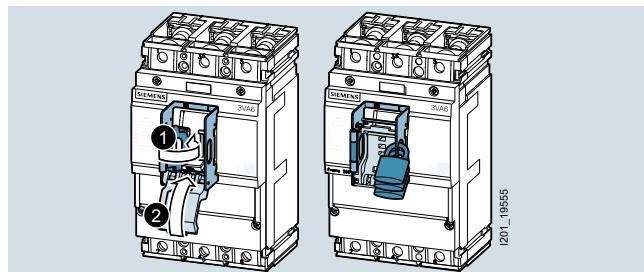
The padlock devices make it possible to lock the 3VA molded case circuit breaker in either the OFF or the ON operating position.

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

#### Blocking device for the handle

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



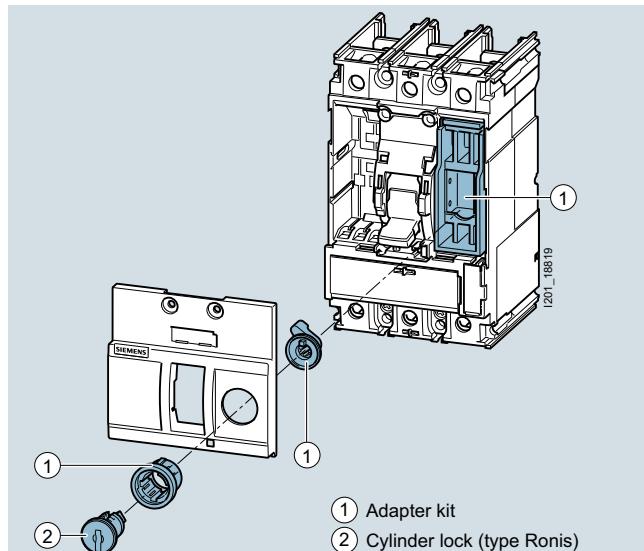
#### Locking technology

##### Locking with cylinder lock

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

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

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

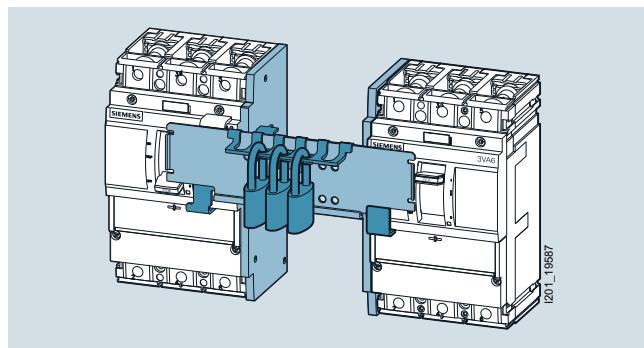


#### Interlocking technology

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

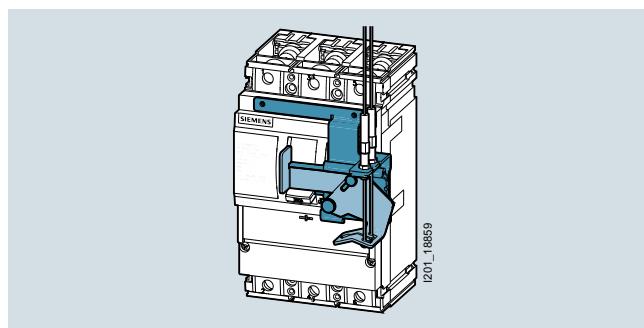
The sliding bar allows between two and three 3VA molded case circuit breakers of the same size to be mutually interlocked by means of a sliding bar.

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



##### Handle interlock using a Bowden cable

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



##### Interlocking with cylinder locks

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

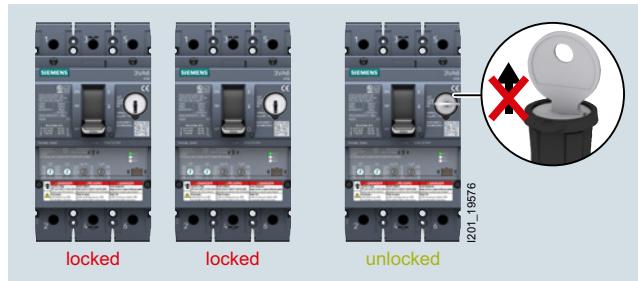
## 3VA UL Molded Case Circuit Breakers

Accessories and Spare Parts

### 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

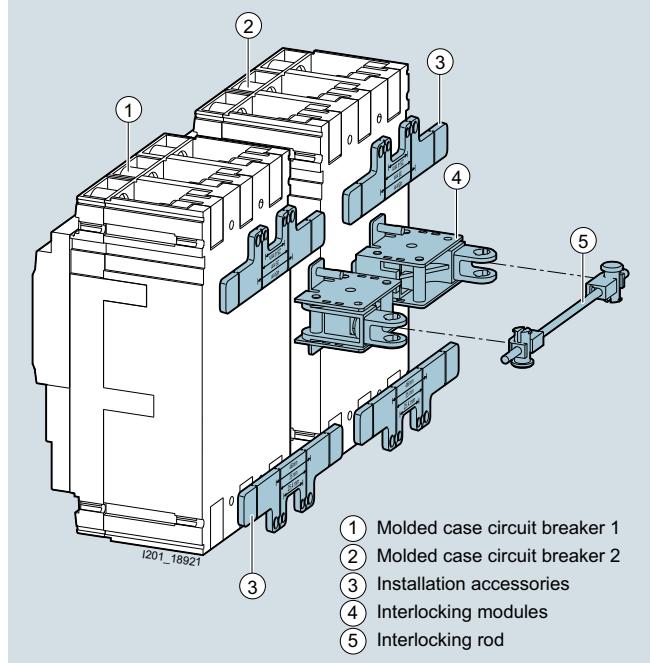
The rear interlock system allows implementation of an interlock without restricting the number of accessories which can be installed at the front of the 3VA molded case circuit breaker. Using the rear interlock, it is possible to create an interlock between two molded case circuit breakers of different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

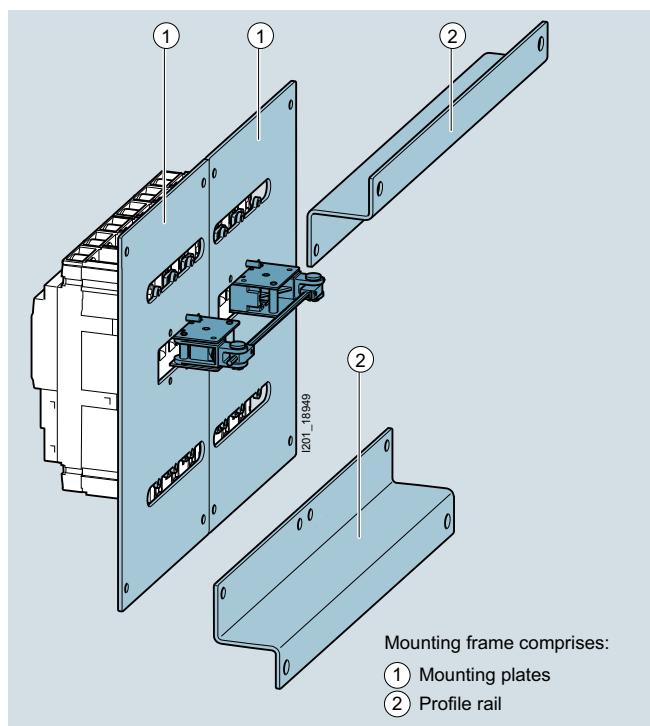
In order to install a rear interlock for plug-in or draw-out versions of the molded case circuit breakers, the tappet needs to be lengthened. The rear interlock for plug-in or draw-out versions is offered as a complete kit.



Rear interlock without mounting frame

#### Benefits

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



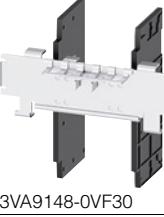
Rear interlock with mounting frame

## 3VA UL Molded Case Circuit Breakers

Accessories and Spare Parts

### 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
	3VA51	3VA52	3VA61	3VA63 3VA62					
<b>Accessories for locking, blocking and interlocking</b>									
	<b>Blocking device for the handle</b>	✓	--	--	--	<b>3VA9038-0LB10</b>	1	1 unit	1CB
3VA9378-0LB10		--	✓	✓	✓	<b>3VA9378-0LB10</b>	1	1 unit	1CB
	<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	Notes				<b>3VA9137-0LF10</b>	1	1 unit	1CB
3VA9147-0LF10	• To implement an interlock or a lock: select suitable cylinder lock(s)	--	✓	--	--	<b>3VA9237-0LF10</b>	1	1 unit	1CB
	• For an interlock: select the same cylinder lock number	--	--	✓	--	<b>3VA9147-0LF10</b>	1	1 unit	1CB
		--	--	--	✓	<b>3VA9347-0LF10</b>	1	1 unit	1CB
	<b>Cylinder lock (type Ronis)</b> <ul style="list-style-type: none"><li>Includes a lock with 2 keys</li><li>For locking or interlocking</li><li>For installation in all rotary operators with shaft stub</li><li>For mounting in the adapter kit for the accessories compartment</li></ul>	Versions							
3VA9980-0VL10	• 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
	<b>Sliding bar</b> Complete kit for interlocking 2 circuit breakers	Note				<b>3VA9138-0VF30</b>	1	1 unit	1CB
3VA9148-0VF30	The article number must be ordered 2 x to implement an interlock between 3 breakers of the same size.	--	✓	--	--	<b>3VA9238-0VF30</b>	1	1 unit	1CB
		--	--	✓	--	<b>3VA9148-0VF30</b>	1	1 unit	1CB
		--	--	--	✓	<b>3VA9348-0VF30</b>	1	1 unit	1CB
	<b>Module for handle interlock using a Bowden cable</b>	Notes				<b>3VA9137-0VF10</b>	1	1 unit	1CB
3VA9147-0VF10	• A separate handle interlock module is required for each switching device.	--	✓	--	--	<b>3VA9237-0VF10</b>	1	1 unit	1CB
	• A Bowden cable must be ordered separately.	--	--	✓	--	<b>3VA9147-0VF10</b>	1	1 unit	1CB
		--	--	--	✓	<b>3VA9347-0VF10</b>	1	1 unit	1CB
	<b>Rear interlock with rod</b> Complete kit for fixed mounting	✓	✓	✓	✓	<b>3VA9078-0VM10</b>	1	1 unit	1CB
3VA9078-0VM10	Note	Mounting frames are not included in scope of supply.							
	<b>Rear interlock with rod</b> Complete kit for plug-in/draw-out unit	✓	✓	✓	✓	<b>3VA9078-0VM30</b>	1	1 unit	1CB
3VA9078-0VM30	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.							

**3VA UL Molded Case Circuit Breakers**

Accessories and Spare Parts

**Accessories for locking, blocking and interlocking**

	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							
		3VA51	3VA52	3VA61	3VA63 3VA62 3VA64 d												
<b>Bowden cable</b>																	
Versions																	
3VA9980-0VC10	• Length 0.6 m	✓	✓	✓	✓	3VA9980-0VC10		1	1 unit	1CB							
	• Length 1.0 m	✓	✓	✓	✓	3VA9980-0VC20		1	1 unit	1CB							
	• Length 1.5 m	✓	✓	✓	✓	3VA9980-0VC30		1	1 unit	1CB							
3VA9980-0VC20																	
<b>Mounting frame for rear interlock with rod</b>																	
For fixed mounting only																	
The following are required for the complete mounting frame kit:																	
3VA9248-0VK20	Versions																
	• Profile rails Contents: 2 units	✓	✓	✓	✓	3VA9078-0VK10		1	1 unit	1CB							
	• Mounting plate One plate per breaker, depending on size	✓	--	--	--	3VA9138-0VK20		1	1 unit	1CB							
		--	✓	--	--	3VA9238-0VK20		1	1 unit	1CB							
		--	--	✓	--	3VA9248-0VK20		1	1 unit	1CB							
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.																	

## 3VA UL Molded Case Circuit Breakers

Accessories and Spare Parts

### 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																								
		3VA51	3VA52	3VA61	3VA63	d																													
<b>Cover frames for door cut-out</b>																																			
<b>Cover frame for door cut-out for molded case circuit breaker</b>																																			
<b>Versions</b>																																			
<ul style="list-style-type: none"> <li>• 3-pole, door cut-out without trip unit</li> </ul>																																			
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<b>Cover frame for MO320 motor operators</b>																																			
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1	1 unit	1CB			</td																														

**3VA UL Molded Case Circuit Breakers**

## Accessories and Spare Parts

**Other**

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
	3VA51	3VA52	3VA61	3VA63	3VA62	3VA64	d				

**Adapter for 60 mm busbar system (8US)**

8US1213-4AP03

Busbar adapter system with 60 mm busbar center-to-center spacing.

For further information, see Catalog LV 10, Busbar systems, 60 mm busbar system (8US) up to 1600 A, device adapters and device holders.

**Note**

Box terminals for the infeed side must be ordered separately for mounting on the busbar adapter. The connection technology for the outgoing side is freely selectable.

**Versions**

- 3-pole

✓	--	--	--	<b>8US1211-4SS00</b>	1	1 unit	1CU
--	✓	✓	--	<b>8US1213-4AP03</b>	1	1 unit	1CU
--	--	--	✓	<b>8US1213-4AH04</b>	1	1 unit	1CU

**Mounting screw kit****Mounting screw kit****Versions**

- For fixed-mounted molded case circuit breakers

- 1-pole	✓	--	--	--	<b>3VA9151-0SS10</b>	1	1 unit	1CB
- 2 and 3-pole (apart from 125 A/160 A with 55 kA and 70 kA)	✓	✓	--	--	<b>3VA9116-0SS10</b>	1	1 unit	1CB
- 3-pole (125 A/160 A with 55 kA and 70 kA) and 4-pole	✓	✓	--	--	<b>3VA9114-0SS10</b>	1	1 unit	1CB
- 3-pole	--	--	✓	--	<b>3VA9126-0SS10</b>	1	1 unit	1CB
- 4-pole	--	--	✓	--	<b>3VA9124-0SS10</b>	1	1 unit	1CB
- 3 and 4-pole	--	--	--	✓	<b>3VA9328-0SS10</b>	1	1 unit	1CB
• For plug-in and draw-out units	--	--	✓	--	<b>3VA9124-0SS10</b>	1	1 unit	1CB

## 3VA UL Molded Case Circuit Breakers

Accessories and Spare Parts

### Notes

4

## Appendix



5/2	<b>Catalog notes</b>
5/3	<b>Ordering notes</b>
5/5	<b>Further documentation</b>
5/9	<b>Quality management</b>
5/10	<b>Standards and approvals</b>
5/12	<b>Siemens contacts</b>
5/13	<b>Service &amp; Support</b>
5/14	<b>Comprehensive support from A to Z</b>
5/15	<b>Software licenses</b>
5/17	<b>Conditions of sale and delivery</b>

# Appendix

## Catalog notes

### Overview

#### Trademarks

All product designations may be registered trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes may violate the rights of the owner.

#### Amendments

Unless stated otherwise on the individual pages of this catalog, we reserve the right to make changes, in particular to the specified values, measurements and weights.

#### Dimensions

All dimensions are given in mm.

#### Illustrations

The illustrations are not binding.

#### Technical specifications

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

Further technical information is available at  
[www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)

- under "Entry type":
  - Application example
  - Certificate
  - Characteristic
  - Download
  - FAQ
  - Manual
  - Product note
  - Software archive
  - Technical data

Configurators can be found at  
[www.siemens.com/lowvoltage/configurators](http://www.siemens.com/lowvoltage/configurators)

#### Assembly, operation and maintenance

Always heed the operating instructions and notices on individual products during assembly, operation and maintenance.

### Symbols

In the table below, you will find all symbols concerning connections that can occur in this catalog. In combination with orange highlighting, these identify special selection criteria.

Connections	
	Screw connection
	Ring cable lug connection
	Spring-loaded terminals

## Ordering notes

**Logistics****General**

With regard to delivery service, communications and environmental protection, our logistics service ensures "quality from the moment of ordering right through to delivery". By designing our infrastructure according to customer requirements and implementing electronic order processing, we have successfully optimized our logistics processes.

We are proud of our personal consulting service, on-time deliveries and one-day transport within Germany.

**To this end, we supply preferred types marked with ▶ ex works.**

We regard the ISO 9001 certification and consistent quality checks as an integral part of our services.

Electronic order processing is fast, cost-efficient and error-free. Please contact us if you want to benefit from these advantages.

**Packaging, packing units**

The packaging in which our equipment is dispatched provides protection against dust and mechanical damage during transport, thus ensuring that all our products arrive in perfect condition.

We select our packaging for maximum environmental compatibility and reusability (e.g. crumpled paper for protection during transport in packages up to 32 kg) and, in particular, with a view to reducing waste.

With our multi-unit and reusable packaging, we offer you specific types of packaging that are both kind to the environment and tailored to your requirements:

Your advantages at a glance:

- Lower ordering costs.
- Cost savings through same-material type packaging: Low/no disposal costs.
- Reduced time and cost thanks to short unpacking times.
- "Just-in-time" delivery directly to the production line helps reduce stock: Cost savings through reduction of storage areas.
- Fast assembly thanks to supply in sets.
- Standard Euro boxes - corresponding to the Euro pallet modular system - suitable for most conveyor systems.
- Active contribution to environmental protection.

Unless stated otherwise in the "Selection and ordering data" of this catalog, our products are supplied individually packed.

For small parts/accessories, we offer you cost-effective packaging units as standard packs containing more than one item, e.g. 5, 10, 50 or 100 units. It is essential that whole number multiples of these quantities be ordered to ensure satisfactory quality of the products and problem-free order processing.

The products are delivered in a neutral carton. The label includes warning notices, the CE marking, and device descriptions in English and German.

In addition to the Article No. (MLFB) and the number of items in the packaging, the operating instructions article number (Instr.-Order-No.) is also specified. It can be obtained from your local Siemens representative (for a list of your Siemens contacts, see [www.siemens.com/lowvoltage/contact](http://www.siemens.com/lowvoltage/contact)).

Most device Article No.'s can be obtained by means of the EAN barcode to simplify ordering and storage logistics.

The associated master data, too, is available from your local Siemens representative.

# Appendix

## Ordering notes

### Overview

#### **Ordering special versions**

When ordering products that differ from the standard versions listed in the catalog, "**-Z**" must be added to the Article No. indicated and the required features must be specified using alphanumeric order codes or plain text.

#### **Ordering very small quantities**

When very small orders are placed, the costs associated with order processing are greater than the order value. We therefore recommend that you combine several small orders. Where this is not possible, we regret that we are obliged to make a small processing charge: for orders with a net goods value of less than € 250 we charge an € 20 supplement to cover our order processing and invoicing costs.

### **Explanations of Selection and Ordering Data**

#### **Standard delivery time (SD)**

SD in days (d)	The standard delivery times (SD) are valid ex works from Siemens AG (products ready for dispatch). Shipping times depend on the destination and the method of shipping. The standard shipping time for Germany is one day.
► Preferred type	Preferred types are device types that can be delivered immediately ex works, i.e. they are dispatched within 24 hours. If ordered in normal quantities, the products are usually delivered within the specified delivery times, calculated from the date we receive your order. In exceptional cases, delivery times may vary from those specified.
X On request	In such cases, the delivery time can be queried.

The specified standard delivery times are correct at the time of going to print and are subject to constant optimization. Up-to-date information can be found at [www.siemens.com/industrymall](http://www.siemens.com/industrymall).

#### **Price units (PU)**

The price unit defines the number of units, sets or meters to which the specified price applies.

#### **Packaging size (PS)**

The packaging size defines the number of units, sets or meters, for example, for outer packaging.  
Only the quantity defined by the packaging size or a multiple thereof can be ordered.

#### **Price group (PG)**

Each product is allocated to a price group.

#### **Example**

<u>5TT3400</u> SD: Preferred type PG: 1BK Ordering quantity 1 unit or a multiple thereof	<u>8US1923-5CA02</u> PG: 1CU Ordering quantity 10 units or a multiple thereof	<u>8WH9000-1GA00</u> PG: 1BT Ordering quantity 50 units or a multiple thereof
---	---	---

SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
d					
►	<b>5TT3400</b>			1	1 unit 1BK
	<b>8US1923-5CA02</b>			1	10 units 1CU
	<b>8WH9000-1GA00</b>			100	50 units 1BT

#### Note:

The article numbers shown here and the specifications regarding selection and ordering data are examples only. When ordering, always use the selection and ordering data in the product chapters.

#### **Metal surcharges/export markings**

To compensate fluctuating prices of raw materials (for example silver, copper, aluminum, lead, gold, dysprosium and neodymium), surcharges are calculated on a daily basis for products containing these raw materials using the metal factor. A surcharge for the particular raw material is added to the price of a product if the basic quotations for this raw material are exceeded.

Each product's metal factor dictates for which raw materials the metal surcharges are calculated, from which quotation and with which calculation method (weight or percentage method).

An exact explanation of the metal factor can be found at [www.siemens.com/automation/salesmaterial-as/catalog/en/terms\\_of\\_trade\\_en.pdf](http://www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf)

A product's export markings/metal surcharges are updated daily at [www.siemens.com/industrymall](http://www.siemens.com/industrymall).

## Further documentation

**Low-Voltage Power Distribution and Electrical Installation Technology on the WWW**

Making sure power makes its way ↗

Consistent, safe, and intelligent low-voltage power distribution and electrical installation technology

Whether in industry, infrastructure, or buildings. Each environment is dependent on a reliable power supply. Which is why products and systems featuring maximum safety and optimum efficiency are in demand. This comprehensive portfolio for low-voltage power distribution and electrical installation technology covers every requirement – from switchgear to the network.

The Power Engineering Guide is the comprehensive manual for transmission and distribution of electrical energy.

[Download now](#)

Low-voltage systems

Low-voltage components

Distribution transformers

On the Internet you will find a host of information all about low-voltage power distribution and electrical installation technology products, such as:

- Overview of our product portfolio
- Background information, news and dates
- Videos, podcasts and newsletters
- Links to blogs and Twitter
- Brochures, catalogs, operating instructions and manuals for direct download

Visit us online and get to know our product range!

[www.siemens.com/lowvoltage](http://www.siemens.com/lowvoltage)

**Product selection using the interactive catalog CA 01**

SIEMENS

Product Catalog CA 01

General Information

Catalog update

Regional versions

Support

Product Catalog CA 01

Products for automation and drives

Regardless of whether you are interested in large drives, small drives or installation systems, with the interactive catalog CA 01 you can quickly and easily search through the extensive portfolio of Siemens Industry Automation and Drive Technologies. The DVD contains information on our products, systems and solutions as well as a variety of selection tools and useful add-ons.

New every October: DVD with information on more than 100,000 products

CA 01 – products for automation and drives

Order the latest CA 01 Catalog here: the interactive DVD simplifies the search for and the ordering of products and solutions from Siemens Industry Automation and Drive Technologies.

Share this Page: [Facebook](#) [Twitter](#) [LinkedIn](#)

More information

Ordering CA 01 DVD

Detailed information together with user-friendly interactive functions

The interactive catalog CA 01 covers more than 100 000 products, thus providing a comprehensive overview of the product range provided by Siemens.

You can find everything you need here for solving automation, switching, installation and drive technology tasks. All information is provided over a user interface that is both user-friendly and intuitive.

Information about the interactive catalog CA 01 can be found on the Internet at:

[www.siemens.com/automation/ca01](http://www.siemens.com/automation/ca01)

or on DVD.

**Industry Mall**

SIEMENS

INDUSTRY MALL

Country overview

Welcome to the Siemens Industry Mall. Please select your country to access your regional Industry Mall.

Argentina	Malaysia
Australia	Mexico
Austria	Netherlands
Bahrain	New Zealand
Belgium	Norway
Bulgaria	Oman
Canada	Peru
Chile	Poland
China	Portugal
Colombia	Qatar
Czech Republic	Romania
Denmark	Russia
Ecuador	Singapore

***The Industry Mall – for online information, product selection and ordering***

- Detailed information including product data, illustrations, certificates and CAx data
- Simple configuring of systems
- Possible to request individualized quotations
- Availability check
- Online ordering facility
- Order tracking/order overview
- Fast access to relevant training offers and services

You can find the Industry Mall on the Internet at

[www.siemens.com/industrymall](http://www.siemens.com/industrymall)

## Appendix

### Further documentation

#### Industry Online Support

The screenshot shows the Industry Online Support International homepage. It features a banner image of a person working on a tablet in a factory setting. Below the banner are several sections: "Product Support" with links to Application Examples, Certificates, and Forums; "Searching for product information" with a search bar; "Quick guide" with links to Topic pages, FAQs, and Downloads; "Our service offer" with links to Plant Data Services, Energy Services, Support Consulting Services, Spare Part Services, Repair Services, Field Service & Maintenance Services, Retrofit & Modernization Services, and Service Programs & Agreements; "Latest articles" with links to various technical documents; "News" with a video thumbnail; "mySupport Products" with a description of how users can store their products; "Working with the Online Support" with tips for navigating the support system; "mySupport Cockpit" with links to Favorites, Personal messages, My requests, CAE downloads, My Products / Clipboard, and User online; and "Industry Online Support for anywhere!" with a download link for the mobile app.

#### Comprehensive support – at any time, whatever your location

- FAQs, sample applications, information about successor products and product news
- Prompt assistance with technical queries
- Discussions and best practice sharing with other users in the forum
- Provision of high-quality product data for your planning programs
- Faster access to information – with helpful filter and folder functions in mySupport
- Automatic notification service to keep you up to date with the latest information about topics of interest to you

You can find Siemens Industry Online Support on the Internet at: [www.siemens.com/online-support](http://www.siemens.com/online-support)

The screenshot shows the Industry Online Support Product Support page for "Electrical power distribution". It includes a search bar, a "Filter criteria for entries" section with dropdowns for "Entry type" (set to "All") and "Date" (set to "From 01.01.2016 To 31.12.2016"), and a "Clear all filters" button. Below this is a table listing 19579 entries, each with a checkbox for "Actions" and a brief description. The first few entries listed are:
 

- Manual: Modular installation instructions for the power type A (MRCO)**: Operating instructions in De\_Ele\_Pt\_Ele\_X\_Pt\_Ru\_Tt\_Ru\_Zh. For products: 59/101-66K. Versions of this manual: 1 (current).
- Manual: MENTRON VL100 Electronic Overcurrent Release LCD ETU**: Operating instructions in De\_Ele\_Pt\_Ele\_X\_Pt\_Ru\_Tt\_Ru\_Zh. For products: 9/101-194-28, 21/212-04/040. Versions of this manual: 1 (current).
- Manual: MENTRON VL100 Aux/Alarm Switches & 350 Adapters**: Operating instructions in De\_Ele\_Pt\_Ele\_X\_Pt\_Ru\_Tt\_Ru\_Zh. For products: 3/120-04/040, 3/140-04/040. Versions of this manual: 1 (current).
- Manual: MENTRON VL100 - VL250 Electronic Overcurrent Release**: Operating instructions in De\_Ele\_Pt\_Ele\_X\_Pt\_Ru\_Tt\_Ru\_Zh. For products: 3/120-04/040, 3/132-04/040. Versions of this manual: 1 (current).
- Certificate: General Product Approval, UL, UL**: Certificate of Compliance 2016021-6432701. For products: 3/141-54 MCW-4 products. Versions of this certificate: 1 (current).
- Certificate: General Product Approval, UL, UL**: PRIMROUS-Certification-2013. For products: SENTRON VL104 products. Versions of this certificate: 1 (current).
- Certificate: General Product Approval, UL, UL**: XCPRI8-E00027. For products: RWA...\_E004...\_UL products. Versions of this certificate: 1 (current).

In the "Entry type" selection box in Product Support, you will find the following:

- Application example
- Certificate
- Characteristic
- Download
- FAQ
- Manual
- Product note
- Software archive
- Technical data

[www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)

In addition, the Low-Voltage Power Distribution and Electrical Installation Technology catalogs are also available there.

[www.siemens.com/lowvoltage/catalogs](http://www.siemens.com/lowvoltage/catalogs)

## Further documentation

**Industry Online Support App****Main functions at a glance**

- Scanning of product codes (EAN/QR and data matrix codes) with direct display of all technical information on the product, including graphic data (CAx data).
- Delivery of product information or entries by email, so that the information can immediately be processed at the workplace.
- Submission of queries to Technical Support (Support Requests). With photo function for transmitting detailed information.
- Contents and interfaces available in 6 languages (German, English, French, Italian, Spanish and Chinese) – including option of temporary switchover to English.
- Offline cache function for all favorites stored in "mySupport". These entries can also be retrieved without network reception.
- Import of PDF documents into a library (e.g. iBooks or similar).

You can find information on the Industry Online Support App on the Internet at

[www.siemens.com/industry/onlinesupportapp](http://www.siemens.com/industry/onlinesupportapp)



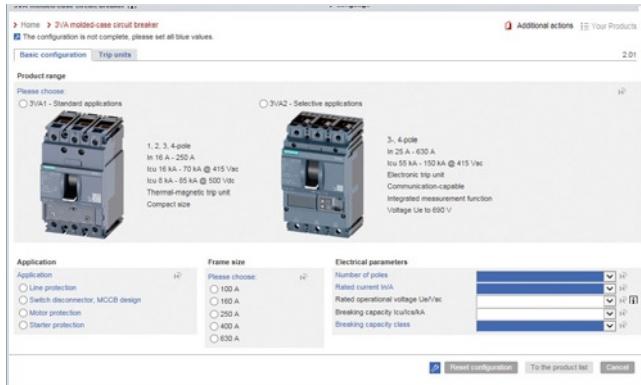
**SIEMENS**

**Android:****Apple iOS:****Windows:**

## Appendix

### Further documentation

#### Product configurator



#### Finding the right product faster

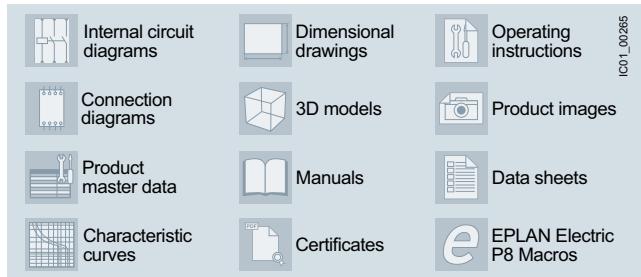
- Complete selection of products and systems based on technical characteristics or application requirements
- Simple, intuitive operation
- Option to save the configuration and order lists in a file format of your choice (txt, pdf, xls, csv)
- Direct transfer of the order list into the shopping cart of the Siemens Industry Mall
- Fast access to product data, diagrams, certificates and CAx data for the selected product and system configuration
- Available in multiple languages for use by customers anywhere in the world

The configurators are available online in the Siemens Industry Mall and offline in Catalog CA 01.

You can find our configurators at the following website:

[www.siemens.com/lowvoltage/configurators](http://www.siemens.com/lowvoltage/configurators)

#### CAx Download Manager



You can find the CAx Download Manager on the Internet at [www.siemens.com/lowvoltage/cax](http://www.siemens.com/lowvoltage/cax)

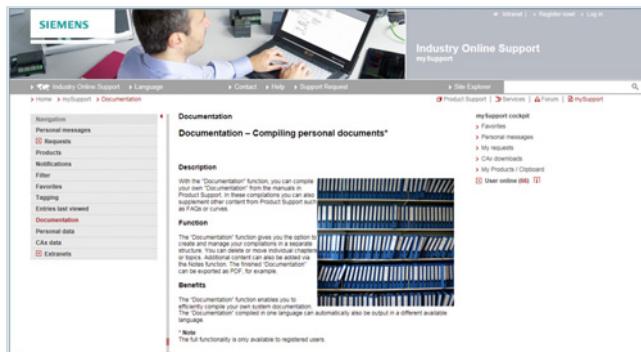
#### Time savings of up to 80% with universal product data for your CAE and CAD systems

The CAx Download Manager can supply you with all the necessary CAx file types for the products of your choice for use in all common CAE and CAD systems. The data contained in the files is continuously updated. The whole process involves only four selection steps and is free of charge. All your selected files are packed into a zip file which you can download for further use.

Siemens makes available up to 12 file types to support your mechanical (CAD) and electrical (CAE) planning processes for you to download at any time of the day.

- No manual data collection necessary
- Universal manufacturer data for all common CAE and CAD systems
- Standardized documentation is simple to generate
- Choice of different languages for system commissioning anywhere in the world

#### My Documentation Manager



In "mySupport" you can compile individual documentation for your project by dragging and dropping

\* e.g. Low Voltage Directive 2006/95/EC and EC Machinery Directive 2006/42/EC

You can find My Documentation Manager on the Internet at [www.siemens.com/lowvoltage/mdm](http://www.siemens.com/lowvoltage/mdm)

#### User-friendly compilation of project-specific documentation

In accordance with directives\*, the documentation is part of the plant and requires certification, thus giving the purchaser the right to full plant documentation.

To support you in this, a manual configurator has been developed with which you can put together individual and standard-compliant documentation – fully in accordance with the relevant project-specific requirements.

You can thus select the chapters relevant to the respective project from the available manuals of the installed Siemens components. FAQs, certificates, data sheets and your own content can also be incorporated.

- Compile and structure manuals, data sheets, FAQs and certificates simply by dragging and dropping
- Insert personalized content via the Notes function
- Further processing possible thanks to selectable export formats (pdf, xml, rtf)
- After generating the documentation, automatic translation into the desired language is possible
- Always up-to-the minute thanks to the Update function

**Quality management****Overview**

The quality management system of our "Low Voltage & Products" Business Unit in the "Energy Management" Division complies with the international EN ISO 9001 standard.

The products and systems listed in this catalog are developed and manufactured using a certified quality management system in accordance with EN ISO 9001:2008.

## Appendix

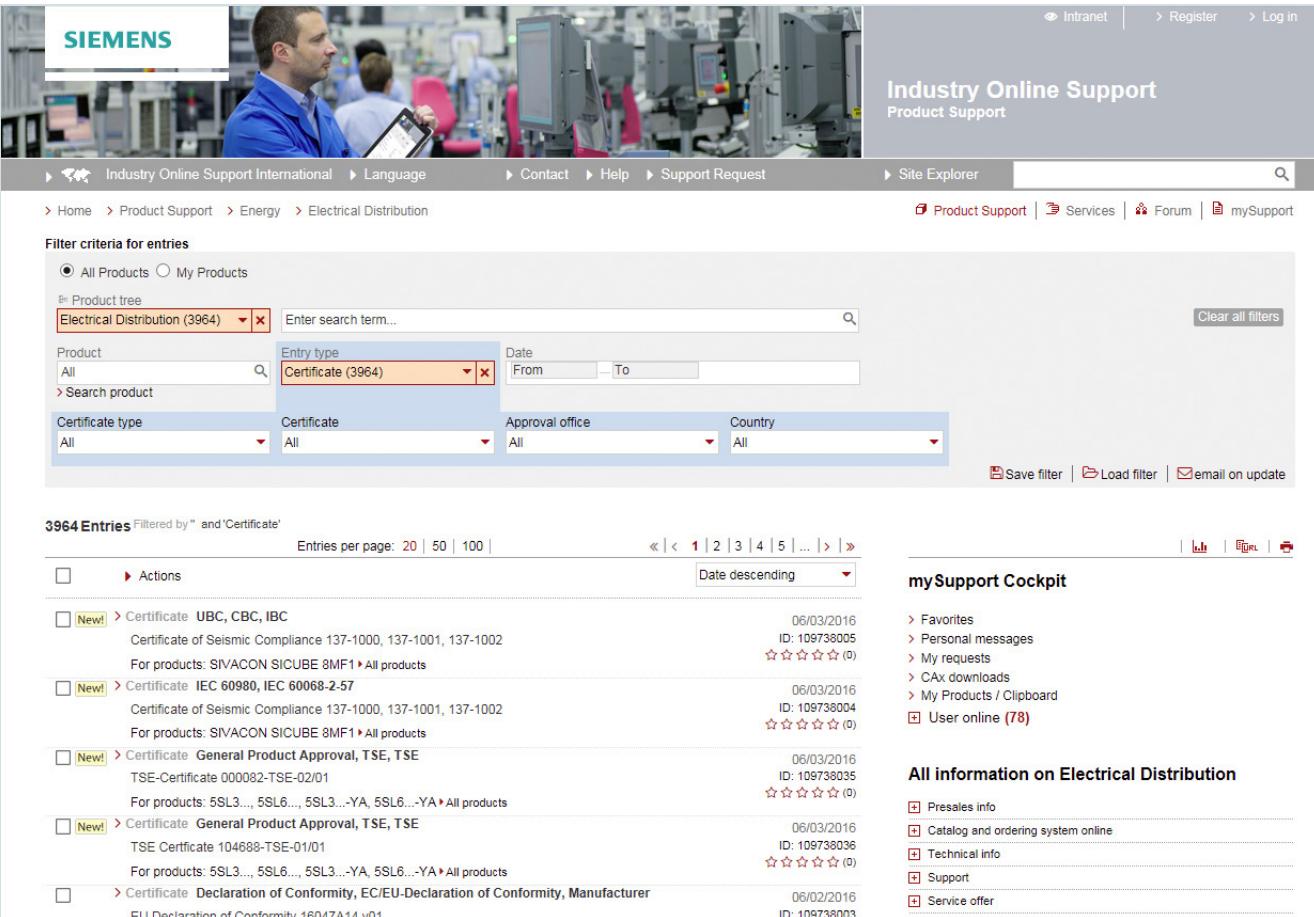
### Standards and approvals

#### Overview

##### Certificates

An overview, updated on a daily basis, of our products certified in accordance with CE, UL, CSA, FM, shipping authorizations etc. for low-voltage power distribution and electrical installation products can be found on the Internet at

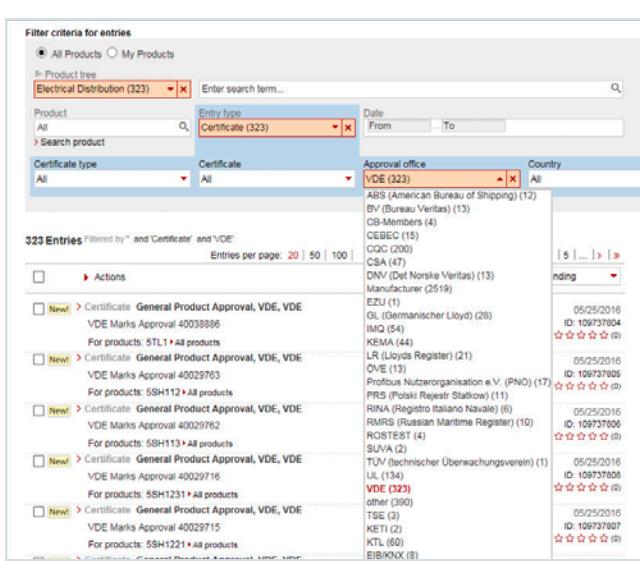
[www.siemens.com/lowvoltage/certificates](http://www.siemens.com/lowvoltage/certificates)



The screenshot shows the Industry Online Support Product Support interface. At the top, there's a banner with a person in a blue jacket holding a tablet in a factory setting. The header includes links for Intranet, Register, Log in, and a search bar. Below the header, the page title is "Industry Online Support Product Support". The main content area has a search bar and filter criteria for entries. The filters include "Product tree" set to "Electrical Distribution (3964)", "Entry type" set to "Certificate (3964)", and "Date" fields for "From" and "To". There are also dropdowns for "Certificate type", "Approval office", and "Country", all currently set to "All". Below the filters, a message says "3964 Entries Filtered by 'Electrical Distribution' and 'Certificate'" with "Entries per page: 20 | 50 | 100 |". The results list several certificate entries, each with a checkbox, an "Actions" link, and details like date, ID, and a star rating. To the right of the results, there's a "mySupport Cockpit" sidebar with links for Favorites, Personal messages, My requests, CAx downloads, My Products / Clipboard, and User online (78). Another sidebar on the right lists "All information on Electrical Distribution" with links for Presales info, Catalog and ordering system online, Technical info, Support, and Service offer.

In the **Entry list**, you can **filter the view** in order to quickly find comprehensive information on the following subjects:

- Product or search term
- Date
- Type of certificate (general product approval, test certificates, shipping approval, ...)
- Certificate (confirmations, UL, VDE,...)
- Approval office (TÜV, VDE, UL, ...)
- Country



This screenshot shows a similar search interface but with a different filter set. The "Entry type" dropdown is now set to "VDE (323)". The results list shows 323 entries filtered by "Electrical Distribution" and "VDE". The results are identical to the ones in the first screenshot, listing various certificates with their details and star ratings. The sidebar on the right is also identical, showing the "mySupport Cockpit" and "All information on Electrical Distribution" sections.

**Standards and approvals****Approval requirements valid in different countries**

Siemens low-voltage switchgear and controlgear are designed, manufactured and tested according to the relevant German standards (DIN and VDE), IEC publications and European standards (EN) as well as CSA and UL standards. You will find the standards assigned to the single devices in the relevant certificates at

[www.siemens.com/lowvoltage/certificates](http://www.siemens.com/lowvoltage/certificates)

In addition to the pertinent VDE, EN and IEC standards, the requirements of the various regulations valid in other countries have also been taken into account in the design of the equipment in some cases, in order that the devices can be deployed globally as far as possible.

In some countries an approval is required for certain low-voltage switchgear and controlgear components. Depending on the market requirements, these devices have been submitted for approval to the authorized testing institutes.

In some cases, CSA for Canada and UL for the USA only approve special versions. Such special versions are listed separately from the standard versions in the relevant parts of this catalog.

For this equipment, there are sometimes limits with regard to the maximum permissible voltages, currents and rated outputs or special approvals and, in some cases, special identification may be required.

For use on board ship, the specifications of the marine classification societies must be observed. In some cases, they require type tests of the components to be approved.

For more information on UL, visit

[www.siemens.com/applicationconsulting/ul](http://www.siemens.com/applicationconsulting/ul)

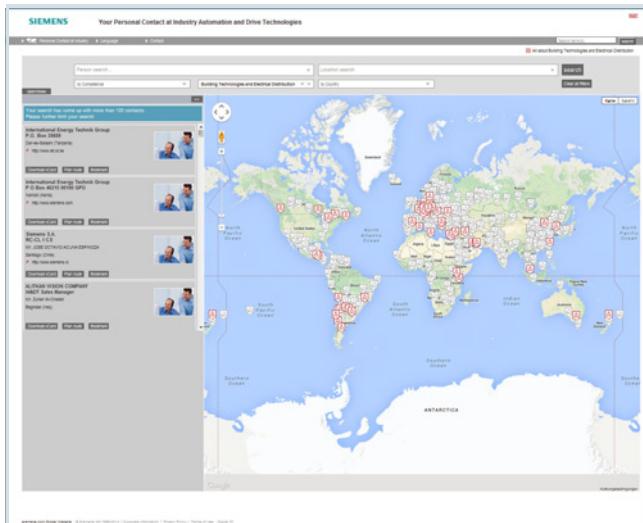
If you have any questions concerning UL/CSA approvals, please contact Technical Support:

[www.siemens.com/lowvoltage/contact](http://www.siemens.com/lowvoltage/contact)

## Appendix

### Siemens contacts

#### Contacts for low-voltage power distribution and electrical installation technology



With low-voltage power distribution and electrical installation technology we consistently pursue one goal:

long-term improvement of your competitive ability.

We are committed to this goal. Thanks to our dedication, we are continually setting new standards. In all industries – worldwide.

At your service, locally, around the globe: Partners for consulting, sales, training, service, support, spare parts ... on the entire range of low-voltage power distribution and electrical installation technology.

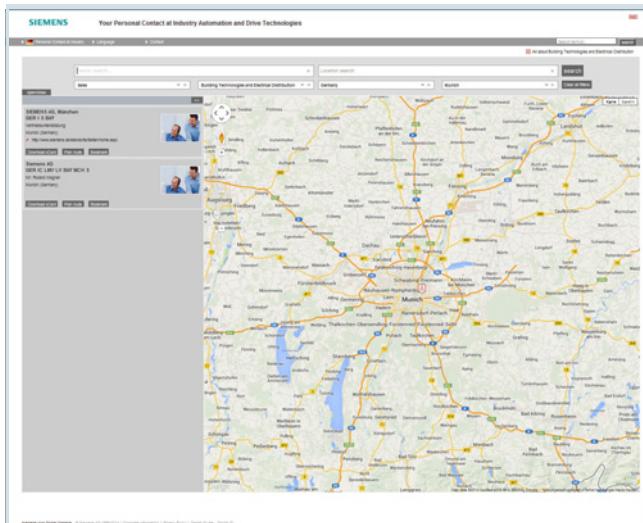
Your personal contact can be found in our Contact Database at [www.siemens.com/lowvoltage/contact](http://www.siemens.com/lowvoltage/contact)

You start by selecting a

- Required competence
- Product or sector
- Country
- City

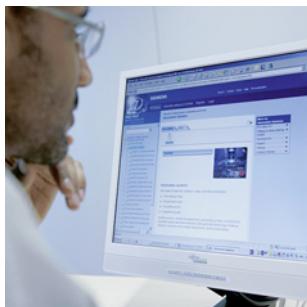
or by performing a

- search for a specific location or
- individual.



**Unrivaled complete range of services over the entire life cycle**

**Online Support**



Our comprehensive online information platform covers every aspect of our Service & Support and is available whenever, wherever.

You will find further information at  
[www.siemens.com/online-support](http://www.siemens.com/online-support)  
[www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)

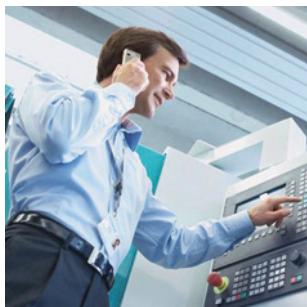
**Field Service**



Siemens Field Service offers support with all aspects of maintenance – so that the availability of your machines and plants is assured whatever the case.

You will find further information at  
[www.siemens.com/online-support](http://www.siemens.com/online-support)

**Technical Support**



The competent consulting service for technical issues with a broad range of customer-oriented services for all our products and systems.

Assistance with technical queries is provided at  
[www.siemens.com/lowvoltage/support-request](http://www.siemens.com/lowvoltage/support-request)  
 You can find your local contacts at  
[www.siemens.com/lowvoltage/contact](http://www.siemens.com/lowvoltage/contact)

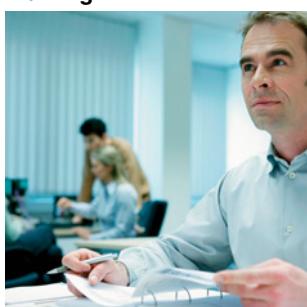
**Spare Parts**



Plants and systems in all industries worldwide are expected to meet ever higher levels of availability. We can help you rule out unexpected stoppages: with a global network and optimum logistics chains.

You will find further information at  
[www.siemens.de/lowvoltage/retouren-center](http://www.siemens.de/lowvoltage/retouren-center)

**Training**



Extend your lead – with practice-related know-how straight from the manufacturer.

You will find further information at  
[www.siemens.com/lowvoltage/training](http://www.siemens.com/lowvoltage/training)

**Specification texts**

You can obtain qualified, free support to help you produce specifications for technically equipping non-residential and industrial buildings at  
[www.siemens.com/specifications](http://www.siemens.com/specifications)

## Appendix

### Comprehensive support from A to Z

#### Overview

##### Product information

<b>Website</b>	Fast and targeted information on low-voltage power distribution and electrical installation technology: <a href="http://www.siemens.com/lowvoltage">www.siemens.com/lowvoltage</a>
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<b>Newsletter</b>	Always up to date about our trend-setting products and systems: <a href="http://www.siemens.com/lowvoltage/newsletter">www.siemens.com/lowvoltage/newsletter</a>
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<b>Product information/product &amp; system selection</b>	
<b>Siemens Industry Online Support</b>	Low-Voltage Power Distribution and Electrical Installation Technology catalogs <a href="http://www.siemens.com/lowvoltage/catalogs">www.siemens.com/lowvoltage/catalogs</a>

<b>Industry Mall</b>	Comprehensive information and order platform for the Siemens Industry Basket: <a href="http://www.siemens.com/lowvoltage/mall">www.siemens.com/lowvoltage/mall</a>
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<b>CA 01</b>	Every product for automation and drive technology, Interactive Catalog, DVD
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<b>Product and system engineering</b>	
<b>SIMARIS planning tools</b>	Support in planning and configuring the electrical power distribution: <a href="http://www.siemens.com/simaris">www.siemens.com/simaris</a>

<b>SIMARIS configuration configuration software</b>	Support throughout the entire configuration cycle from the configuration of SIVACON S8 switchboards, ALPHA distribution boards, cost calculations and quotation preparation, right through to the creation of plant documentation: <a href="http://www.siemens.com/simarischconfig">www.siemens.com/simarischconfig</a>
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<b>Software for power loss calculations - SIMARIS therm</b>	Support in performing power loss calculations for the dimensioning of control cabinets: <a href="http://www.siemens.com/simaristherm">www.siemens.com/simaristherm</a>
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<b>Product documentation</b>	
<b>Siemens Industry Online Support</b>	Comprehensive technical information – from planning to configuration and operation: <a href="http://www.siemens.com/online-support">www.siemens.com/online-support</a> <a href="http://www.siemens.com/lowvoltage/product-support">www.siemens.com/lowvoltage/product-support</a>

<b>Product configurator</b>	Complete selection of products and systems based on technical characteristics or application requirements: <a href="http://www.siemens.com/lowvoltage/configurators">www.siemens.com/lowvoltage/configurators</a>
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<b>CAX Download Manager</b>	Collation of CAX data types for standard CAE and CAD systems: <a href="http://www.siemens.com/lowvoltage/cax">www.siemens.com/lowvoltage/cax</a>
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<b>My Documentation Manager</b>	Compilation of project-specific documentation: <a href="http://www.siemens.com/lowvoltage/mdm">www.siemens.com/lowvoltage/mdm</a>
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<b>Image database</b>	Collection of product photographs and graphics, such as dimensional drawings and internal circuit diagrams: <a href="http://www.siemens.com/lowvoltage/picturedb">www.siemens.com/lowvoltage/picturedb</a>
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<b>Product training</b>	Comprehensive training program for our products, systems and engineering tools: <a href="http://www.siemens.com/lowvoltage/training">www.siemens.com/lowvoltage/training</a>
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<b>Product hotline</b>	Support in all technical queries about our products: <a href="http://www.siemens.com/lowvoltage/support-request">www.siemens.com/lowvoltage/support-request</a>
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## Overview

### Software types

Software requiring a license is categorized into types. The following software types have been defined:

- Engineering software
- Runtime software

### Engineering software

This includes all software products for creating (engineering) user software, e.g. for configuring, programming, parameterizing, testing, commissioning or servicing.

Data generated with engineering software and executable programs can be duplicated for your own use or for use by third-parties free-of-charge.

### Runtime software

This includes all software products required for plant/machine operation, e.g. operating system, basic system, system expansions, drivers, etc.

The duplication of the runtime software and executable programs created with the runtime software for your own use or for use by third-parties is subject to a charge.

You can find information about license fees according to use in the ordering data (e.g. in the catalog). Examples of categories of use include per CPU, per installation, per channel, per instance, per axis, per control loop, per variable, etc.

Information about extended rights of use for parameterization/configuration tools supplied as integral components of the scope of delivery can be found in the readme file supplied with the relevant product(s).

### License types

Siemens Industry Automation & Drive Technologies offers various types of software license:

- Floating license
- Single license
- Rental license
- Rental floating license
- Trial license
- Demo license
- Demo floating license

### Floating license

The software may be installed for internal use on any number of devices by the licensee. Only the concurrent user is licensed. The concurrent user is the person using the program. Use begins when the software is started.  
A license is required for each concurrent user.

### Single license

Unlike the floating license, a single license permits only one installation of the software per license.

The type of use licensed is specified in the ordering data and in the Certificate of License (CoL). Types of use include for example per instance, per axis, per channel, etc.

One single license is required for each type of use defined.

### Rental license

A rental license supports the "sporadic use" of engineering software. Once the license key has been installed, the software can be used for a specific period of time (the operating hours do not have to be consecutive).

One license is required for each installation of the software.

### Rental floating license

The rental floating license corresponds to the rental license, except that a license is not required for each installation of the software. Rather, one license is required per object (for example, user or device).

### Trial license

A trial license supports "short-term use" of the software in a non-productive context, e.g. for testing and evaluation purposes. It can be transferred to another license.

### Demo license

The demo license support the "sporadic use" of engineering software in a non-productive context, for example, use for testing and evaluation purposes. It can be transferred to another license. After the installation of the license key, the software can be operated for a specific period of time, whereby usage can be interrupted as often as required.

One license is required per installation of the software.

### Demo floating license

The demo floating license corresponds to the demo license, except that a license is not required for each installation of the software. Rather, one license is required per object (for example, user or device).

### Certificate of License (CoL)

The CoL is the licensee's proof that the use of the software has been licensed by Siemens. A CoL is required for every type of use and must be kept in a safe place.

### Downgrading

The licensee is permitted to use the software or an earlier version/release of the software, provided that the licensee owns such a version/release and its use is technically feasible.

### Delivery versions

Software is constantly being updated.

The following delivery versions

- PowerPack
- Upgrade

can be used to access updates.

Existing bug fixes are supplied with the ServicePack version.

### PowerPack

PowerPacks can be used to upgrade to more powerful software. The licensee receives a new license agreement and CoL (Certificate of License) with the PowerPack. This CoL, together with the CoL for the original product, proves that the new software is licensed.

A separate PowerPack must be purchased for each original license of the software to be replaced.

### Upgrade

An upgrade permits the use of a new version of the software on the condition that a license for a previous version of the product is already held.

The licensee receives a new license agreement and CoL with the upgrade. This CoL, together with the CoL for the previous product, proves that the new version is licensed.

A separate upgrade must be purchased for each original license of the software to be upgraded.

## Appendix

### Software licenses

#### Overview

##### **ServicePack**

ServicePacks are used to debug existing products. ServicePacks may be duplicated for use as prescribed according to the number of existing original licenses.

##### **License key**

Siemens Industry Automation & Drive Technologies supplies software products with and without license keys.

The license key serves as an electronic license stamp and is also the "switch" for activating the software (floating license, rental license, etc.).

The complete installation of software products requiring license keys includes the program to be licensed (the software) and the license key (which represents the license).

##### **Software Update Service (SUS)**

As part of the SUS contract, all software updates for the respective product are made available to you free of charge for a period of one year from the invoice date. The contract will automatically be extended for one year if it is not canceled three months before it expires.

The possession of the current version of the respective software is a basic condition for entering into an SUS contract.

You can download explanations concerning license conditions from

[www.siemens.com/automation/salesmaterial-as/catalog/en/terms\\_of\\_trade\\_en.pdf](http://www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf)

**Conditions of sale and delivery****1. General standards**

By using this catalog you can acquire hardware and software products described therein from Siemens AG subject to these conditions of sale and delivery (hereinafter: CSD). Please note: the scope, the quality and the conditions for supplies and services, including software products, by any Siemens group or Regional Company having a registered office outside of Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. These CSD apply exclusively for orders placed with Siemens AG, Germany.

**1.1 For customers with a seat or registered office in Germany**

For customers with a seat or registered office in Germany, the following shall be subordinate to these CSD

- the "General Terms of Payment"<sup>1)</sup> and
- for software products, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or Registered Office in Germany"<sup>1)</sup> and
- the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"<sup>1)</sup> for other deliveries and services.

**1.2 For customers with a seat or registered office outside of Germany**

For customers with a seat or registered office outside of Germany, the following shall be subordinate to these CSD

- the "General Terms of Payment"<sup>1)</sup> and
- for software products, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or Registered Office outside of Germany"<sup>1)</sup> and
- the "General Conditions for Supplies of Siemens Industry for Customers with a Seat or Registered Office outside of Germany"<sup>1)</sup> for other deliveries and services.

**2. Prices**

The prices are in € (Euro) ex works, excluding packaging.

The sales tax (value added tax) is not included in the prices. It shall be debited separately at the respective rate according to the applicable legal regulations.

Prices are subject to change without prior notice. We will debit the prices valid at the time of delivery.

To compensate fluctuating prices of raw materials (for example silver, copper, aluminum, lead, gold, dysprosium and neodymium), surcharges are calculated on a daily basis for products containing these raw materials using the metal factor. A surcharge for the particular raw material is added to the price of a product if the basic quotations for this raw material are exceeded.

Each product's metal factor dictates for which raw materials the metal surcharges are calculated, from which quotation and with which calculation method (weight or percentage method).

An exact explanation of the metal factor can be found at [www.siemens.com/automation/salesmaterial-as/catalog/en/terms\\_of\\_trade\\_en.pdf](http://www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf)

The surcharge will be calculated (except in the case of dysprosium and neodymium) on the basis of the official price on the day prior to receipt of the order or prior to the release order for calculation of the surcharge.

In the event of placement of an order, the relevant three-month average price from the quarter prior to order receipt or the release order shall be used with a one-month buffer to calculate the dysprosium and neodymium surcharge ("rare earths") (you will find details in the aforementioned explanation of the metal factor).

**3. Additional terms and conditions**

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

Illustrations are not binding.

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

**4. Export regulations**

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

Export of the products listed in this catalog may be subject to authorization. In delivery information, we label authorization obligations according to German, European and US export lists. Goods labeled with an "AL" not equal to "N" are subject to European or German export authorization when being exported out of the EU. Goods labeled with "ECCN" not equal to "N" are subject to a US re-export authorization.

Please note that you can also preview the export designations in the respective product description via our "Industry Mall" online catalog system. The deciding factors, however, are the AL or ECCN export designations indicated on order confirmations, delivery notes and invoices.

Even if goods are not labeled, or labeled "AL:N" or "ECCN:N", they may still be subject to export authorization based on the final destination and end use of the goods.

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

If required to conduct export control checks, you, at our request, shall promptly provide us with all information pertaining to particular end customers, destination and intended use of goods, works and services provided by us, as well as any relevant export control restrictions.

The products listed in this catalog may be subject to European/German and/or US export regulations. Therefore, any export requiring a license is subject to approval by the competent authorities.

Errors excepted and subject to change without prior notice.

<sup>1)</sup> You can download the text of the Siemens AG terms and conditions of trade at  
[www.siemens.com/automation/salesmaterial-as/catalog/en/terms\\_of\\_trade\\_en.pdf](http://www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf)

## Appendix

### Notes

5

**Catalogs****Digital Factory, Process Industries and Drives and Energy Management**

**Further information can be obtained from our branch offices listed at [www.siemens.com/lowvoltage/contact](http://www.siemens.com/lowvoltage/contact)**

<b>Interactive Catalog on DVD</b>	<i>Catalog</i>	<i>Catalog</i>
Products for Automation and Drives	<b>CA 01</b>	
<b>Building Control</b>		
GAMMA Building Control	ET G1	
<b>Drive Systems</b>		
SINAMICS G130 Drive Converter Chassis Units	D 11	
SINAMICS G150 Drive Converter Cabinet Units		
SINAMICS GM150, SINAMICS SM150 Medium-Voltage Converters	D 12	
SINAMICS PERFECT HARMONY GH180 Medium-Voltage Air-Cooled Drives (Germany Edition)	D 15.1	
SINAMICS G180 Converters – Compact Units, Cabinet Systems, Cabinet Units Air-Cooled and Liquid-Cooled	D 18.1	
SINAMICS S120 Chassis Format Units and Cabinet Modules	D 21.3	
SINAMICS S150 Converter Cabinet Units		
SINAMICS S120 and SIMOTICS	D 21.4	
SINAMICS DCM DC Converter, Control Module	D 23.1	
SINAMICS Inverters for Single-Axis Drives · Built-In Units	D 31.1	
SINAMICS Inverters for Single-Axis Drives · Distributed Inverters	D 31.2	
<i>Digital: SINAMICS G120P and SINAMICS G120P Cabinet pump, fan, compressor converters</i>	D 35	
LOHER VARIO High Voltage Motors Flameproof, Type Series 1PS4, 1PS5, 1MV4 and 1MV5 Frame Size 355 to 1000, Power Range 80 to 7100 kW	D 83.2	
Three-Phase Induction Motors		
SIMOTICS HV, SIMOTICS TN	D 84.1	
High Voltage Three-phase Induction Motors	D 84.9	
SIMOTICS HV Series A-compact PLUS		
<i>Digital: Modular Industrial Generators SIGENTICS M</i>	D 85.1	
Three-Phase Induction Motors SIMOTICS HV, Series H-compact	D 86.1	
Synchronous Motors with Permanent-Magnet Technology, HT-direct	D 86.2	
DC Motors	DA 12	
SIMOREG DC MASTER 6RA70 Digital Chassis Converters	DA 21.1	
SIMOREG K 6RA22 Analog Chassis Converters	DA 21.2	
<i>Digital: SIMOREG DC MASTER 6RM70 Digital Converter Cabinet Units</i>	DA 22	
SIMOVERT PM Modular Converter Systems	DA 45	
MICROMASTER 420/430/440 Inverters	DA 51.2	
MICROMASTER 411/COMBIMASTER 411	DA 51.3	
<b>Low-Voltage Three-Phase-Motors</b>		
SIMOTICS S-1FG1 Servo geared motors	D 41	
SIMOTICS Low-Voltage Motors	D 81.1	
SIMOTICS FD Low-Voltage Motors	D 81.8	
LOHER Low-Voltage Motors	D 83.1	
<i>Digital: MOTOX Geared Motors</i>	D 87.1	
SIMOGEAR Geared Motors	MD 50.1	
SIMOGEAR Electric-monorail geared motors	MD 50.8	
Light-load and heavy-load applications		
SIMOGEAR Gearboxes with adapter	MD 50.11	
<b>Mechanical Driving Machines</b>		
FLENDER Standard Couplings	MD 10.1	
FLENDER High Performance Couplings	MD 10.2	
FLENDER Backlash-free Couplings	MD 10.3	
FLENDER SIP Standard industrial planetary gear units	MD 31.1	
<b>Process Instrumentation and Analytics</b>		
<i>Digital: Field Instruments for Process Automation</i>	FI 01	
<i>Digital: Display Recorders SIREC D</i>	MP 20	
<i>Digital: SIPART Controllers and Software</i>	MP 31	
Products for Weighing Technology	WT 10	
Process Analytical Instruments	AP 01	
<i>Digital: Process Analytics, Components for Continuous Emission Monitoring</i>	AP 11	
<b>Low-Voltage Power Distribution and Electrical Installation Technology</b>		
SENTRON · SIVACON · ALPHA Protection, Switching, Measuring and Monitoring Devices, Switchboards and Distribution Systems Standards-Compliant Components for Photovoltaic Plants	LV 10	
Electrical Components for the Railway Industry Power Monitoring Made Simple Components for Industrial Control Panels according to UL Standards	LV 11	
3WT Air Circuit Breakers up to 4000 A 3VT Molded Case Circuit Breakers up to 1600 A	LV 12	
<i>Digital: SIVACON System Cubicles, System Lighting and System Air-Conditioning</i>	LV 14	
<i>Digital: ALPHA Distribution Systems</i>	LV 16	
ALPHA FIX Terminal Blocks	LV 35	
SIVACON S4 Power Distribution Boards	LV 52	
SIVACON 8PS Busbar Trunking Systems	LV 56	
<i>Digital: DELTA Switches and Socket Outlets</i>	LV 70	
Vacuum Switching Technology and Components for Medium Voltage	<i>ET D1</i>	
	HG 11.01	
<b>Motion Control</b>		
SINUMERIK 840 Equipment for Machine Tools	NC 62	
SINUMERIK 808 Equipment for Machine Tools	NC 81.1	
SINUMERIK 828 Equipment for Machine Tools	NC 82	
SIMOTION Equipment for Production Machines	PM 21	
<i>Digital: Drive and Control Components for Cranes</i>	CR 1	
<b>Power Supply</b>		
SITOP Power supply	KT 10.1	
<b>Safety Integrated</b>		
Safety Technology for Factory Automation	SI 10	
<b>SIMATIC HMI / PC-based Automation</b>		
Human Machine Interface Systems/ PC-based Automation	ST 80/ ST PC	
<b>SIMATIC Ident</b>		
Industrial Identification Systems	ID 10	
<b>SIMATIC Industrial Automation Systems</b>		
Products for Totally Integrated Automation	ST 70	
SIMATIC PCS 7 Process Control System	ST PCS 7	
System components		
SIMATIC PCS 7 Process Control System	ST PCS 7 T	
Technology components		
Add-ons for the SIMATIC PCS 7 Process Control System	ST PCS 7 AO	
SIMATIC S7-400 advanced controller	ST 400	
<b>SIMATIC NET</b>		
Industrial Communication	IK PI	
<b>SIRIUS Industrial Controls</b>		
SIRIUS Industrial Controls	IC 10	

*Digital: These catalogs are only available as a PDF.*

**Siemens Industry Online Support**

Digital versions of the catalogs are available on the Internet at:  
[www.siemens.com/lowvoltage/catalogs](http://www.siemens.com/lowvoltage/catalogs)

## Get more information

[siemens.com/lowvoltage](http://siemens.com/lowvoltage)

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Low Voltage & Products  
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93009 Regensburg  
Germany

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## Security information

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

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

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

For additional information on industrial security measures that may be implemented, please visit  
<http://www.siemens.com/industrialsecurity>.

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

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