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SENTRON

3KC Transfer Switching Equipment up to 3200 A

Edition
10/2016

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 for the selection, configuration and ordering of
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Products for Automation and Drives CA 01
 Interactive Catalog
 DVD

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Contents

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Circuit breakers • Air circuit breakers/Molded case switches • Molded case circuit breakers • Miniature circuit breakers • Fuse systems • Switch disconnectors • Switching devices • Socket outlets • Busbar systems • Measuring devices and power monitoring • Molded-plastic distribution systems • Terminal blocks

iPo plug-in terminals • iPo installation terminals • Spring-loaded terminals • Combination plug-in terminals • Insulation displacement terminals • Screw terminals • Accessories for terminal blocks

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Catalog PDF
 Digital versions of the catalogs are available in
 the Information and Download Center.

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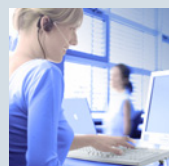


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Technical Support

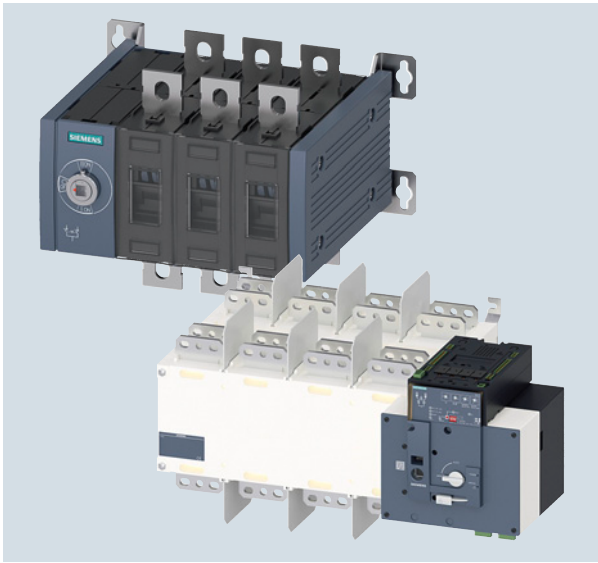


Expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

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3KC Transfer Switching Equipment up to 3200 A

SENTRON



3KC Transfer Switching Equipment up to 3200 A · 10/2016

Supersedes:

3KC Transfer Switching Equipment up to 3200 A · 05/2016

Refer to the Industry Mall for current updates of
this catalog:

www.siemens.com/industrymall

The products contained in this catalog can also be found
in the Interactive Catalog CA 01.

Article No.: E86060-D4001-A510-D7-7600

Please contact your local Siemens branch.

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Introduction

1

3KC Transfer Switching Equipment up to 3200 A

2

Appendix

3

The products and systems described in
this catalog are manufactured/distributed
under application of a certified quality
management system in accordance with
DIN EN ISO 9001:2008.



Our products lay the foundations for safe, reliable and efficient electrical infrastructure at medium and low-voltage levels in buildings and industrial applications.

Our portfolio includes, among other devices, distribution boards, communication-capable protection, switching, measuring and monitoring devices, as well as switches and socket outlets.

Our components reliably protect against accidents, faults and fires caused by electricity. Furthermore, they allow consumers to utilize electrical power in a sustainable and responsible manner and support automated operation of buildings and industrial applications.

Software tools, comprehensive data provision and professional online support ensure efficient engineering.

Electrical power distribution – integrated, safe and efficient

The increasing level of automation in buildings and industry introduces novel requirements for electrical power distribution and make the underlying technologies ever more complex. Our components and systems are perfect for integration into networked environments and significantly increasing the efficiency of your business processes: communication-capable, flexible and failsafe devices combine with digital engineering to enable optimized solutions for any application.

Solutions for the future

We support you throughout the entire value chain with our end-to-end portfolio, from the planning stages right through to the operation, as well as when it comes to measures for modernizing and expanding your electrical energy distribution systems.

Our tested and certified components, systems and software packages allow for ever-suitable and efficient solutions in both centralized and distributed power systems the world over and can be perfectly integrated into building automation and industrial automation applications.

Comprehensive support

At the same time, you benefit from our broad portfolio of personalized and automated maintenance and support services.

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

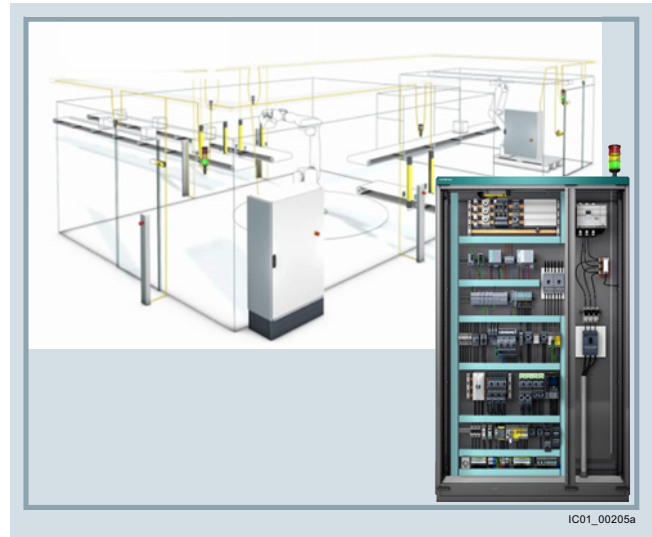
Overview

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

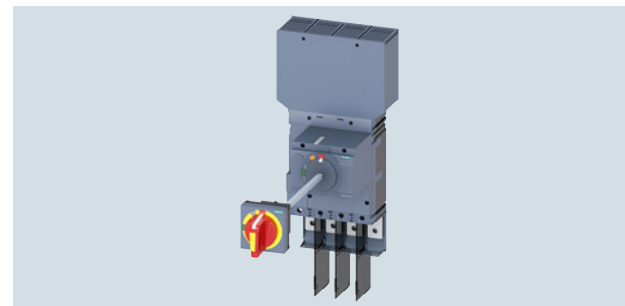
Using the EPLAN Electric P8 Macro in .edz exchange format (EPLAN Data Archived Zipped) the overall time required for data integration can be further reduced. With just a few clicks, the data types for any number of article numbers can be imported and combined. In this way, it is possible for the installed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

At a glance

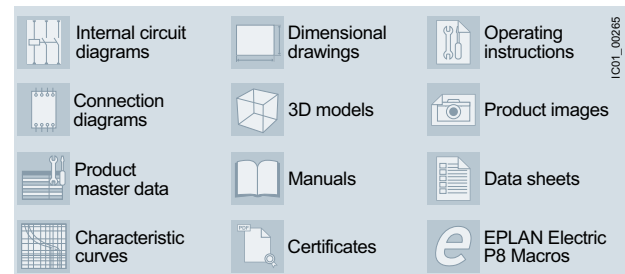
Without Planning Efficiency a lot of time would often be lost due to manual data transmission. Now you are able to concentrate on the essentials. All necessary information and product data is provided by Siemens for easy retrieval.

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

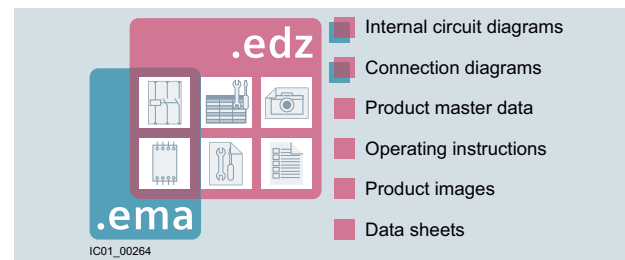
For more information, go to www.siemens.com/planning-efficiency.



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



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.

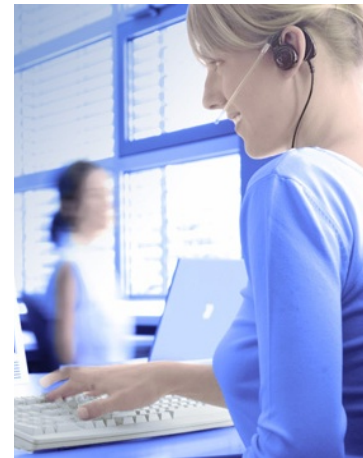
Still have questions?

Our experts will help you with competent specialist support



Competent and fast specialist advice on:

- Product selection
- Commissioning
- Issues during operation
- Possible special versions
- Special requirements
- Product features
- Device communication



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Get all the information you need – with just one click

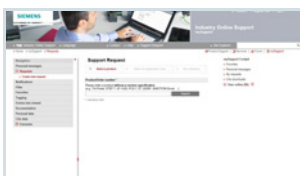


Industry Online Support – get up-to-date information online fast

www.siemens.com/online-support

In the Product Support area, you will find FAQs, manuals, certificates, applications & tools etc.

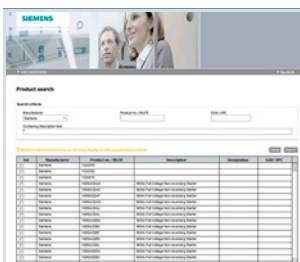
www.siemens.com/lowvoltage/product-support



Support Request – the quickest route to the experts

www.siemens.com/lowvoltage/technical-support

Using the Support Request form on the Industry Online Support portal, you can send your query directly to our Technical Support team.



Conversion tool – the easy and efficient way of finding successor products

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

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-CBCOM

Communication with
SENTRON components: 1 day



LV-SENER

Advanced course on
SENTRON products: 1 day

LV-CBPROJ

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

Power monitoring courses

LV-EMSENTB

Energy management (Basic): 2 days



LV-EMSENTE

Energy management (Expert): 1 day

Switchboard courses

LV-ALPHAPB

ALPHA 3200
Switchboard installation: 1 day

LV-SIVAS4

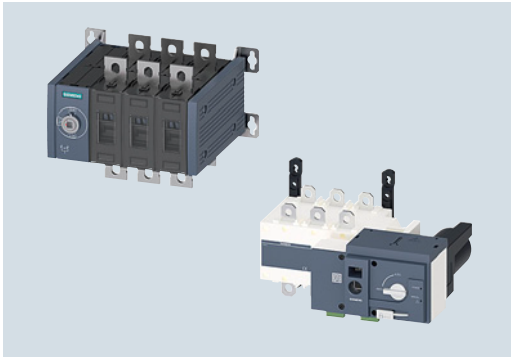
SIVACON S4
Power distribution boards: 2 days

LV-ALPHATA

ALPHA 3200
Technology and software: 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



The 3KC4 and 3KC8 transfer switching equipment achieves reliable switching between two power sources in order to ensure a continuous supply of power. The equipment enables reliable transfer between a main network and an alternative network, thus a power supply is provided by means of an emergency network if the main network is not available.

The 3KC transfer switching equipment comprises two switch disconnectors that are connected to each other by means of a mechanical and, where required, an electrical interlock.

All 3KC transfer switching equipment is approved in accordance with IEC 60947-6-1 and IEC 60947-3.

Manual transfer switching equipment (MTSE)

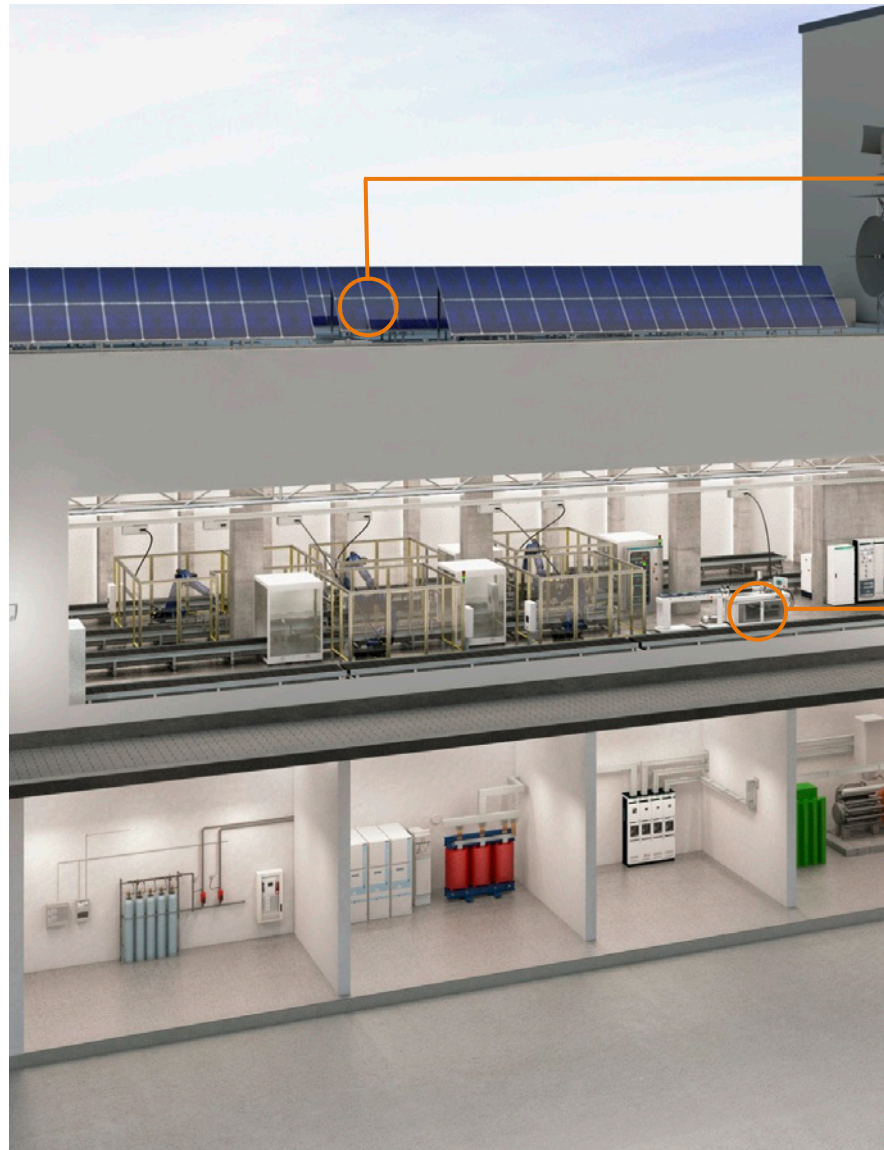
Manual transfer switching equipment can be used as a low-cost alternative wherever immediate switching is not essential, i.e. when a brief power failure up to switching is tolerable.

Remote transfer switching equipment (RTSE)

Remote transfer switching equipment is used wherever remote switching is required, such as in the case of automatic switching using a separate controller (e.g. SIMATIC) that is, however, already available in the plant.

Automatic transfer switching equipment (ATSE)

Automatic transfer switching equipment with motorized operating mechanisms and internal controller are used as compact complete devices wherever quick and reliable automatic switching is required in minimum space.





The I-O-II switch positions not only enable disconnection, but also switching between different power sources.



The 3KC remote transfer switching equipment with motorized operating mechanism can be integrated with ease into existing power distribution systems.



Optional manual switching for safe maintenance of power supply systems with continuous load supply.

Still have questions? Get all the information you need – with just one click

Always here for you: our comprehensive support

			
Information	Planning/order	Operation/service	Training
– Website – Catalogs and brochures – Newsletters – Image database	– Industry Mall – Configuration – SIMARIS planning tools – CAx-Download Manager	– Siemens Industry Online Support (SIOS) – My Documentation Manager – Technical support – Support request	– SITRAIN Portal – Siemens Power Academy – BT Academy

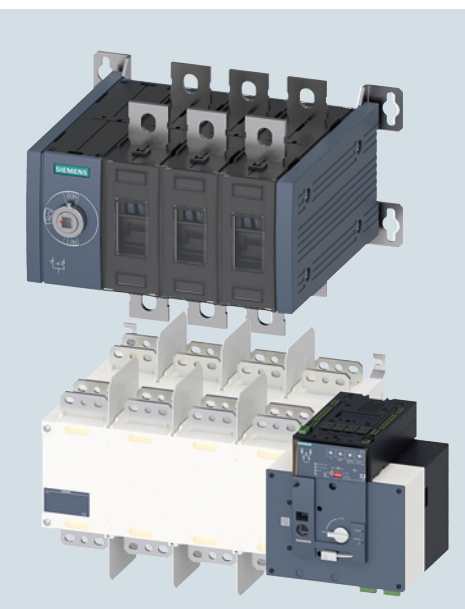
I201_19079

We support you from the planning stages to commissioning to operation.

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

Introduction

1



3KA transfer switching equipment up to 3200 A

1/2	General data
	Technical features
1/14	Manual transfer switching equipment (MTSE)
1/17	Remote transfer switching equipment (RTSE) / Automatic transfer switching equipment (ATSE)
1/20	Controllers for ATSE 40 to 160 A and 250 to 3200 A

NEW

Direct reference to the products in the Industry Mall from the selection and ordering data tables:

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

3VA2025-5HL36-0AA0

Paper catalog:
 To get more product information enter the Web address plus Article No.



PDF catalog:
 Get more product information with just a mouse click.

For further technical product information:

Siemens Industry Online Support:
www.siemens.com/lowvoltage/product-support

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

Introduction

3KC Transfer Switching Equipment up to 3200 A

General data

Overview

3KC manual transfer switching equipment for 16 to 160 A (MTSE)

Rated current I_n	16	32	63	80	100	125	160
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Manual transfer switching equipment (MTSE)

Size (MTSE type)	1 (3KC0...-M)			2 (3KC0...-N)			
Number of poles							
• 3-pole	✓	✓	✓	✓	✓	✓	✓
• 4-pole	✓	✓	✓	✓	✓	✓	✓
Connection							
• Flat terminals	--	--	--	--	--	--	--
• Box terminals	✓	✓	✓	✓	✓	✓	✓

3KC transfer switching equipment with motorized operating mechanism for 40 to 160 A (RTSE/ATSE))

Rated current I_n	40	63	80	100	125	160
---------------------	----	----	----	-----	-----	-----



Remote Transfer Switching Equipment (RTSE)

RTSE type	3KC3424	3KC3426	3KC3428	3KC3430	3KC3432	3KC3434
Number of poles						
• 3-pole	--	--	--	--	--	--
• 4-pole	✓	✓	✓	✓	✓	✓
Connection						
• Flat terminals	--	--	--	--	--	--
• Box terminals	✓	✓	✓	✓	✓	✓



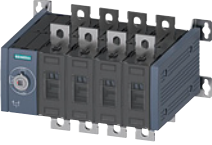
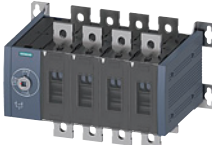
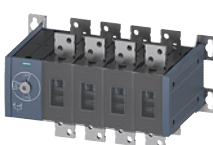
Automatic transfer switching equipment (ATSE)

ATSE type	3KC6424	3KC6426	3KC6428	3KC6430	3KC6432	3KC6434
Number of poles						
• 3-pole	--	--	--	--	--	--
• 4-pole	✓	✓	✓	✓	✓	✓
Connection						
• Flat terminals	--	--	--	--	--	--
• Box terminals	✓	✓	✓	✓	✓	✓

✓ Available

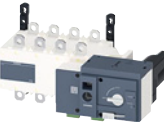
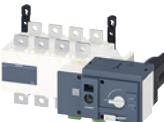
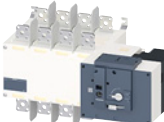
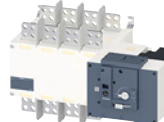
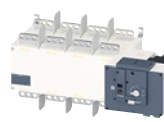
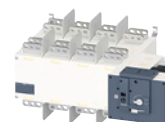
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3KC manual transfer switching equipment for 200 to 1600 A (MTSE)

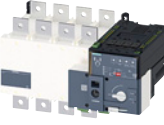
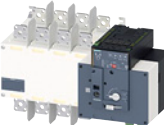
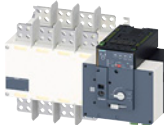
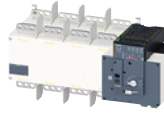
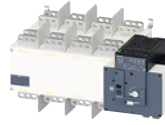
200	250	315	400	500	630	800	1000	1250	1600
									
									

3 (3KC0...-P)				4 (3KC0...-Q)			5 (3KC0...-R)		
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
--	--	--	--	--	--	--	--	--	--

3KC transfer switching equipment with motorized operating mechanism for 250 to 3200 A (RTSE/ATSE)

250	400	630	800/1000	1250	1600	2000/2500/3200
						

3KC4.38	3KC4.42	3KC4.46	3KC4.48/50	3KC4.52	3KC4.54	3KC4.56/58/60
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
--	--	--	--	--	--	--

						
---	---	---	---	--	---	---

3KC8.38	3KC8.42	3KC8.46	3KC8.48/50	3KC8.52	3KC8.54	3KC8.56/58/60
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
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✓ Available
 -- Not available

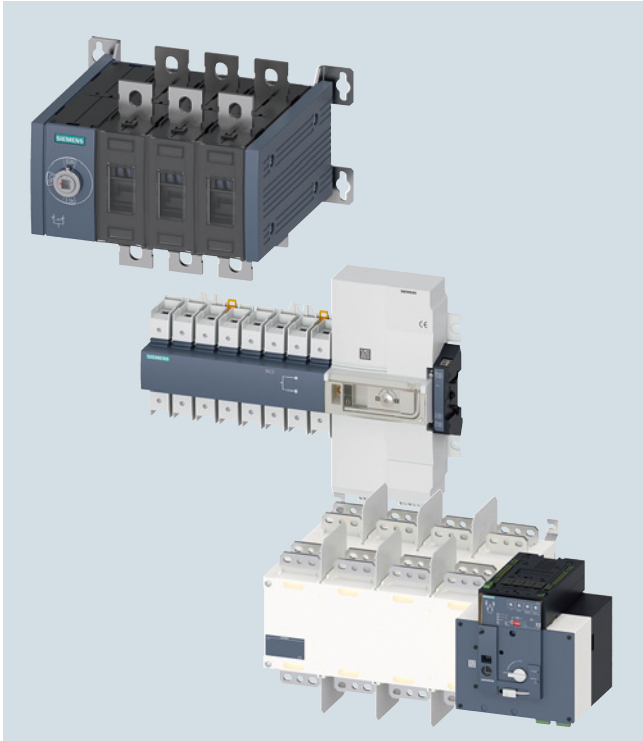
Introduction

3KC Transfer Switching Equipment up to 3200 A

1

General data

Overview



3KC transfer switching equipment:
top left MTSE up to 1600 A, center RTSE up to 160 A,
bottom right ATSE up to 3200 A

3KC transfer switching equipment of class PC (short-circuit capability acc. to IEC 60947-6-1) offers a convenient and safe solution for switching over networks in the event of network fluctuations.

Systems are switched over with an interruption of the power supply during the switching operation. Fast transfer switching in the case of the ATSE ensures a short load downtime. Integration of transfer switching and control in one single unit enables the combination of high performance and easy installation.

Features

Common features

- Simple installation
- Conformity with IEC 90947-6-1 and IEC 90947-3

Integrated solution

- Particularly easy installation of a complete solution with an integrated ATSE for the entire 40 ... 3200 A current range

Modular design for the MTSE and the RTSE/ATSE from 250 A and higher

- Controller (electronic module) and motorized operating mechanism can be replaced individually on the RTSE/ATSE
- MTSE can be expanded by an additional pole

Maximum safety

- Maximum safety thanks to electrical and mechanical interlocking of switches (I, II)
- RTSE/ATSE: Supplied as standard with a manual emergency handle to enable fast intervention in an emergency
- Switching position indication
- Shutting off with a padlock in position 0 enables safe maintenance work
- In the case of RTSE/ATSE transfer switches up to 160 A, locking with a padlock can be configured for every position before installation: I, 0 or II.
- Ensuring device availability, by means of constant monitoring of the device's operating conditions.

Easy installation in the case of transfer switches up to 160 A

- Compact design of the ATSE with integrated controller, already wired ready for operation (including power supply)
- Easy access to network connection thanks to an extremely low overall depth
- Fast and easy mounting on a standard mounting rail or a mounting plate
- Easy wiring thanks to box terminals and the bridging bars provided for them, enabling a common outgoing assembly point. Thanks to the bridging bars, the connection capacity of the box terminal is not reduced.

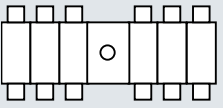
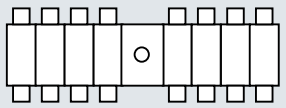
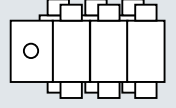
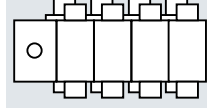
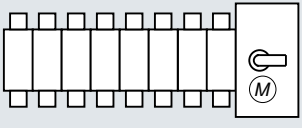
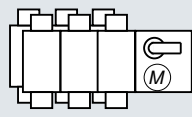
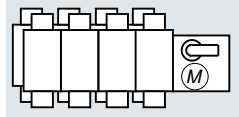
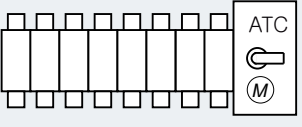
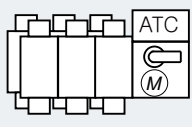
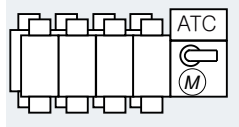
High switching capacity

- Closing and opening under load, also for inductive loads (AC-33)
- Resilient to voltage fluctuations in the supply system thanks to stable switch positions. The switching operations are fault-tolerant by a fail-safe power supply that is either integrated in the controller or is connected separately.
- High dynamic strength for enhanced safety when switching to a short-circuit
- For RTSE up to 160 A: extremely low load downtimes (< 90 ms) thanks to electromagnetic operating mechanism

Switch versions

The following versions of the 3KC transfer switching equipment are available:

- Manual transfer switching equipment (MTSE)
- Remote transfer switching equipment (RTSE)
- Automatic transfer switching equipment (ATSE)

Number of poles	3-pole	4-pole	3-pole	4-pole
Rated current	16 ... 160 A		200 ... 1600 A	
MTSE				
Rated current	40 ... 160 A		250 ... 3200 A	
RTSE	---			
ATSE	---			

Introduction

3KC Transfer Switching Equipment up to 3200 A

General data

1

Benefits

- 3/4-pole version
- Transfer switching equipment up to 3200 A (MTSE up to 1600 A)
- Very short switching time (for transfer switches up to 160 A)
- Compact design in the case of transfer switches up to 160 A
- Switching from network to network and from network to generator
No additional software needed for parameterization
- Auto-configuration of voltage and frequency levels
- Watchdog relay ensures operability of the switch
- Direct control of the generator via a control signal
- Integrated dual power supply
- Resistant to shock and vibrations
- Additionally fail-safe mechanical interlock
- External display for installation in control cabinet door

Application

Industries

Residential/non-residential:

- Safety devices in high buildings
- Computing centers (banks, insurance companies, etc.)
- Fire pumps, air conditioning systems, cold rooms
- Lighting systems in shopping malls

Industry:

- Production lines in continuous operation
- Engine rooms
- Auxiliary facilities in essentially important thermal power stations
- Pumps
- Cooling systems
- Fans

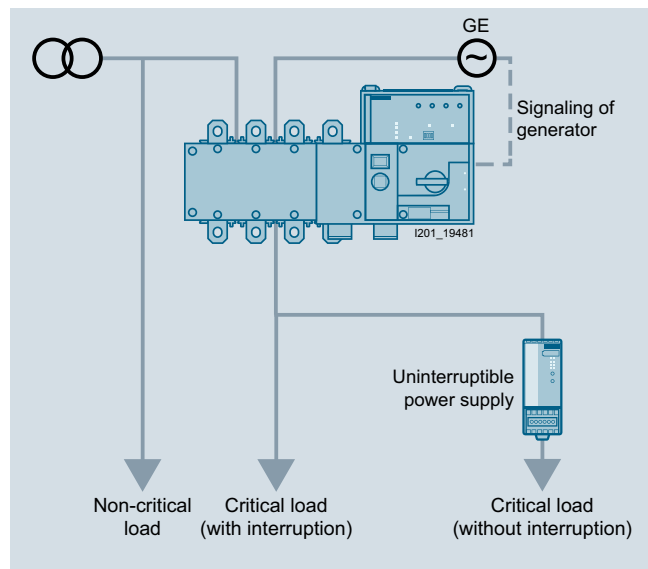
Infrastructure:

- Installations in ports and loading stations
- Airports
- Lighting

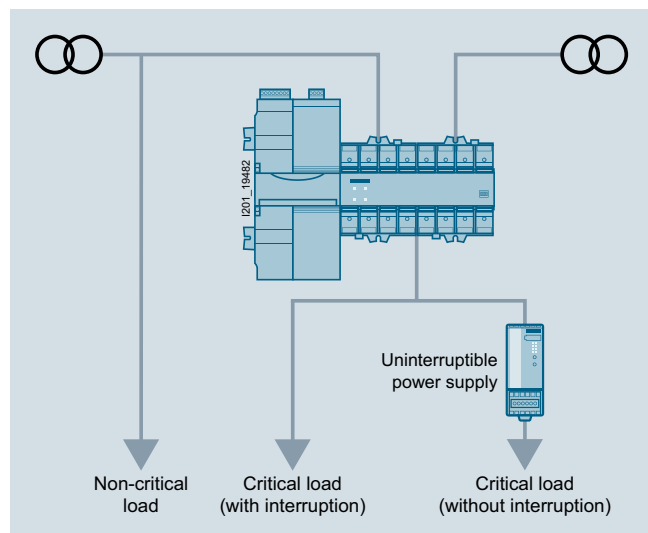
Network configurations

All versions of the 3KC transfer switching equipment can be used for all conventional network configurations, including:

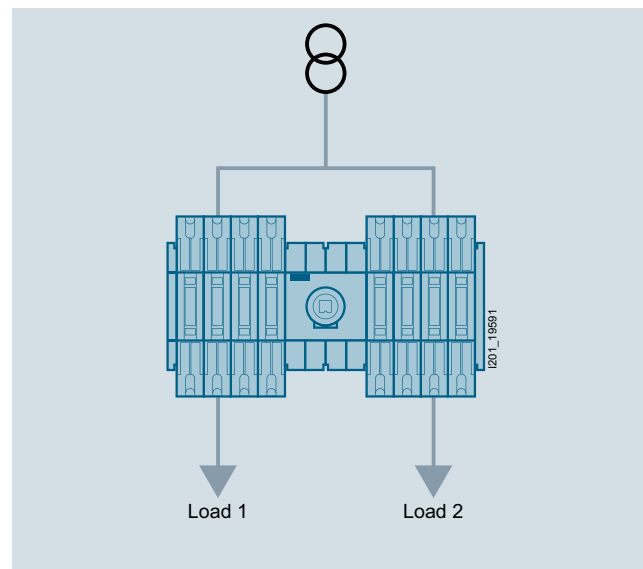
- TT systems
- TN systems
 - TN-C systems
 - TN-C-S systems
 - TN-S systems
- IT systems

ApplicationsNetwork/generator transfer

Network/generator operation (IEC 60947-6-1)

Network/network transfer

Network/network operation (IEC 60947-6-1)

Load transfer

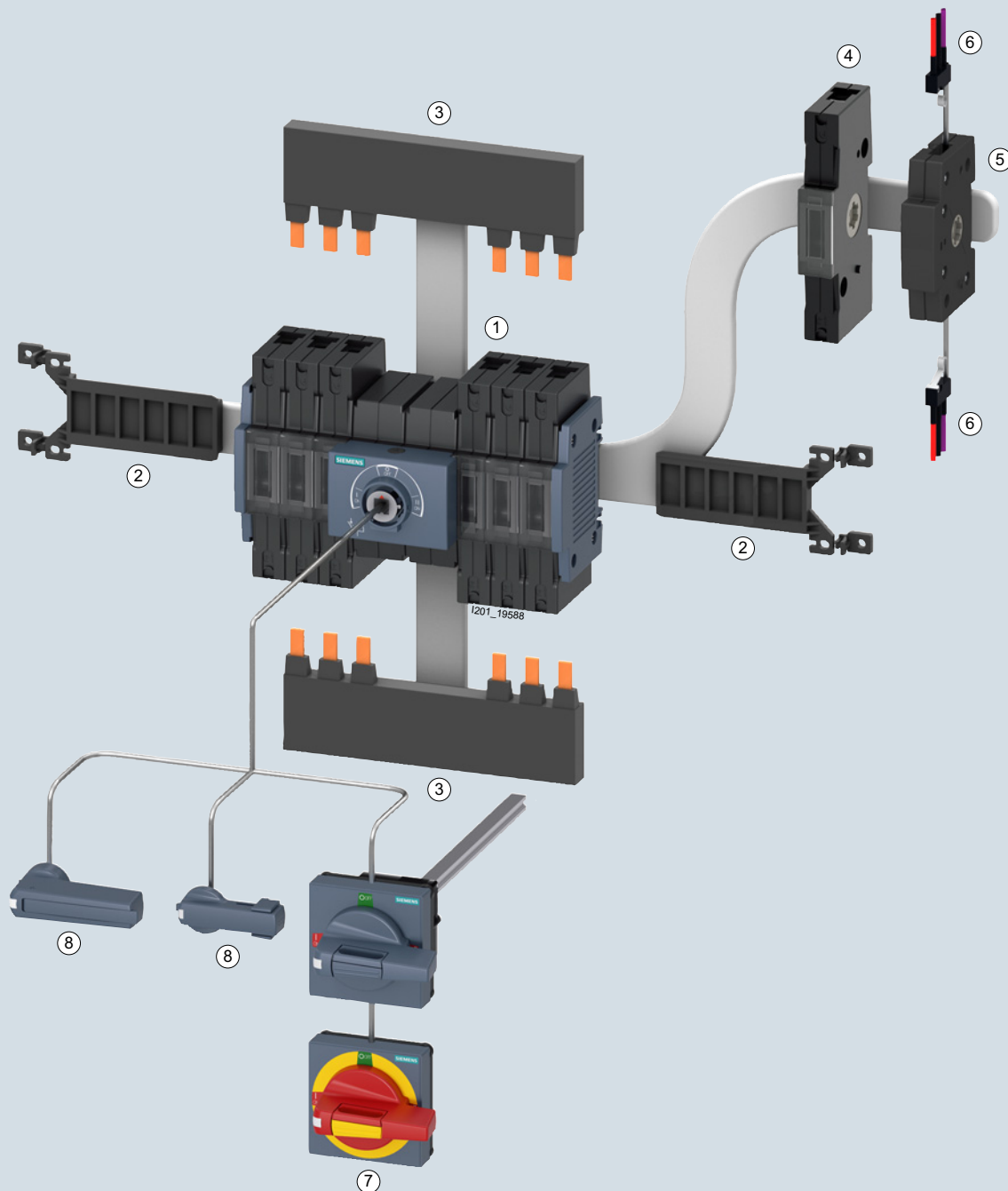
Load transfer switches (IEC 60937-3)

Introduction

3KC Transfer Switching Equipment up to 3200 A

General data

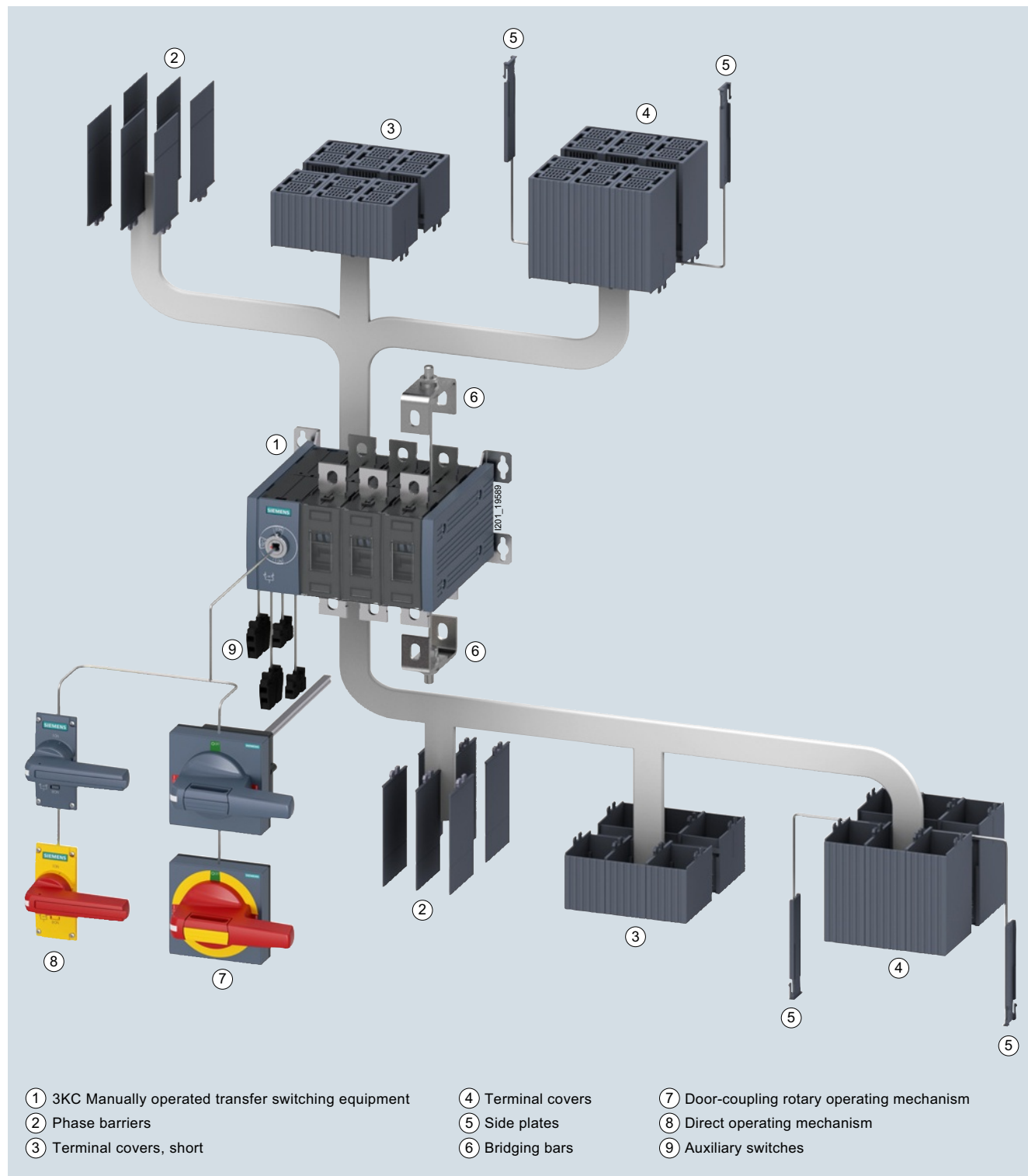
Overview of components and accessories: 3KC manual transfer switching equipment (MTSE) for 16 to 160 A, 3/4-pole



- ① 3KC Manually operated transfer switching equipment
- ② Mounting kit for floor mounting
- ③ Bridging bars
- ④ 4th pole

- ⑤ Auxiliary switch module
- ⑥ Auxiliary switches
- ⑦ Door-coupling rotary operating mechanism
- ⑧ Direct operating mechanism

Overview of components and accessories: 3KC manual transfer switching equipment (MTSE) in sizes 3 to 5, for 200 to 1600 A, 3/4-pole

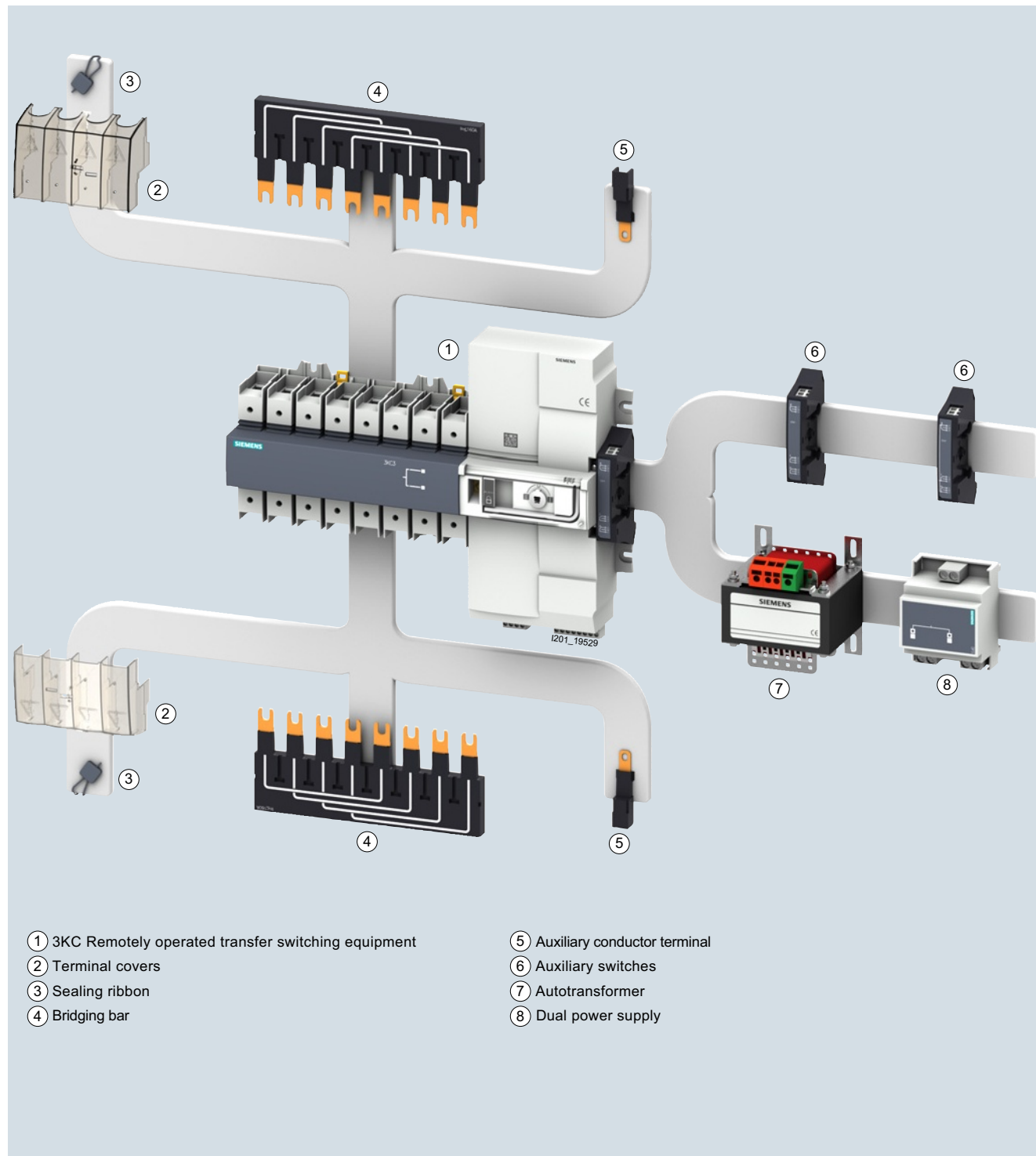


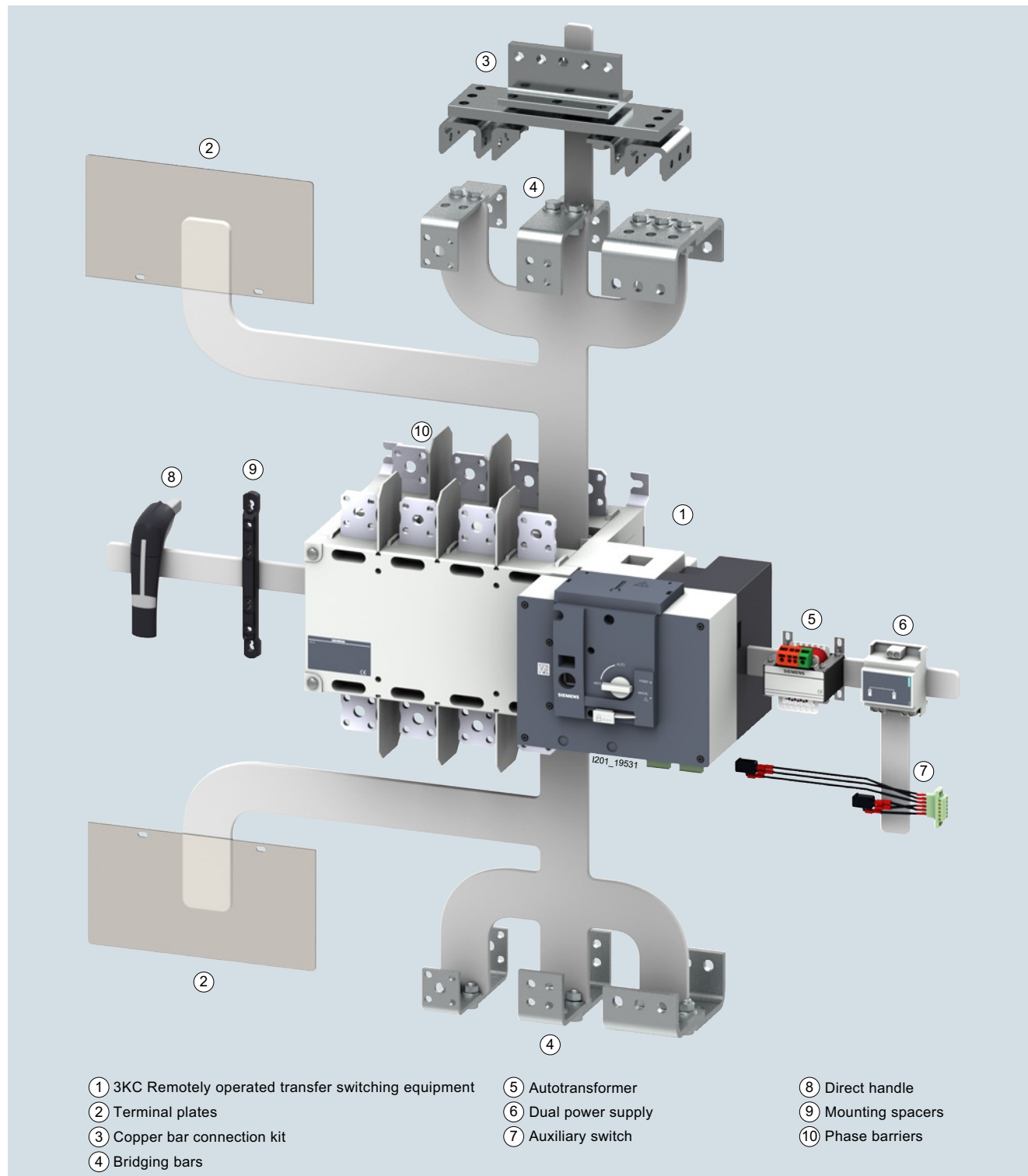
Introduction

3KC Transfer Switching Equipment up to 3200 A

General data

Overview of components and accessories: 3KC remote transfer switching equipment (RTSE) for 40 to 160 A, 4-pole



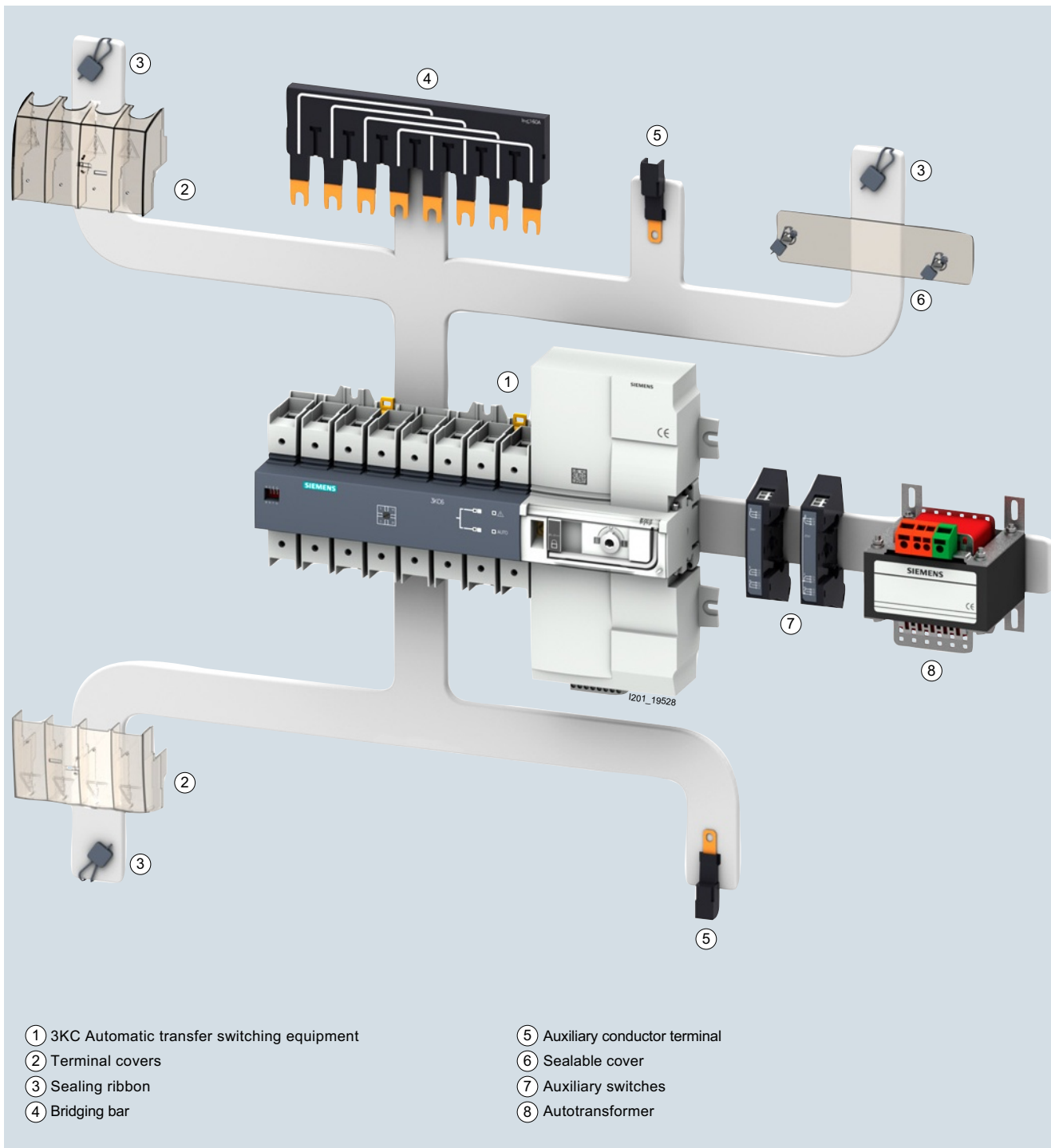
Overview of components and accessories: 3KC remote transfer switching equipment (RTSE) for 250 to 3200 A, 3/4-pole

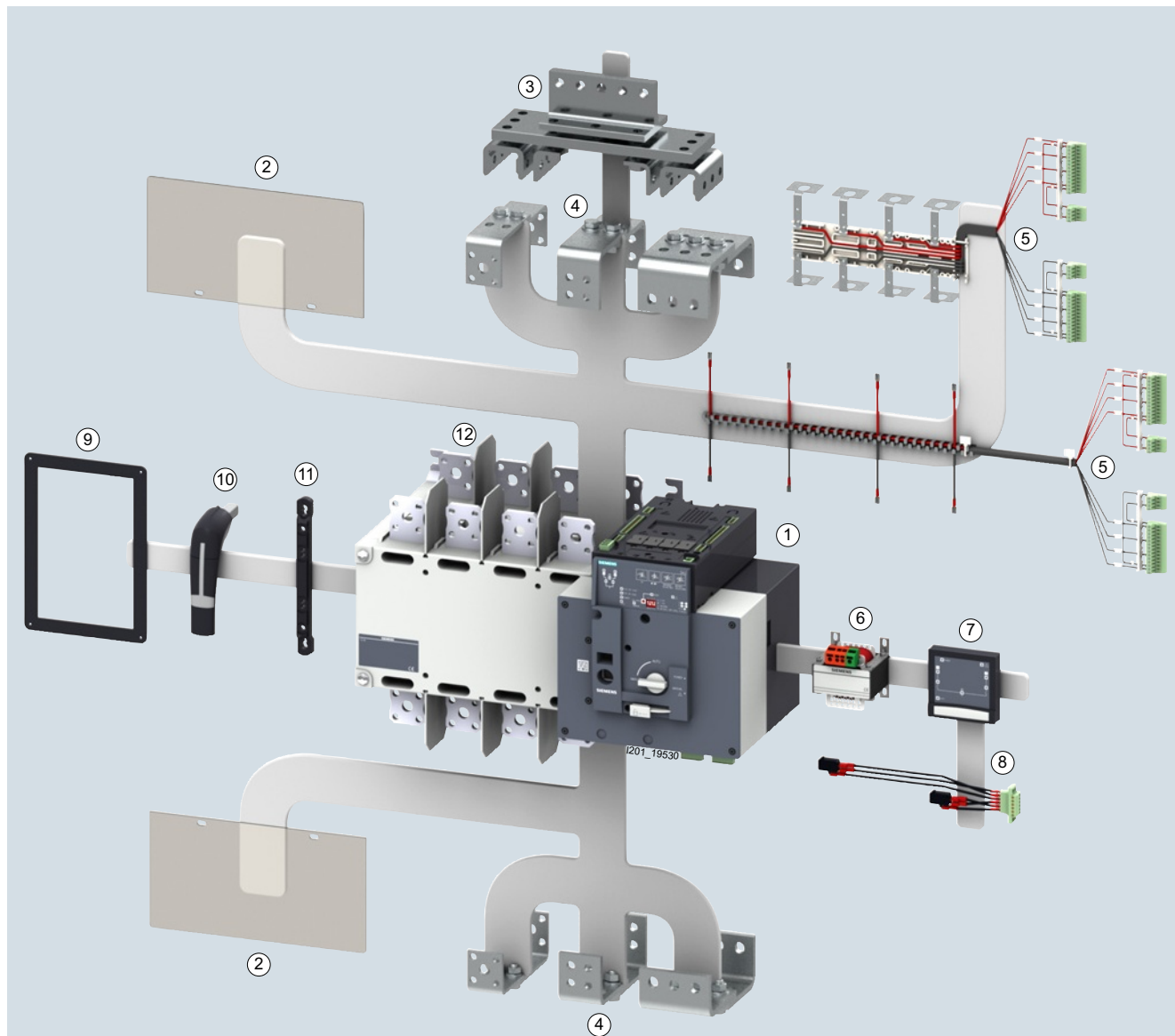
Introduction

3KC Transfer Switching Equipment up to 3200 A

General data

Overview of components and accessories: 3KC automatic transfer switching equipment (ATSE) for 40 to 160 A, 4-pole



Overview of components and accessories: 3KC automatic transfer switching equipment (ATSE) for 250 to 3200 A, 3-/4-pole

- ① 3KC Automatic transfer switching equipment
- ② Terminal plates
- ③ Copper bar connection kit
- ④ Bridging bars

- ⑤ Power supply kit
- ⑥ Autotransformer
- ⑦ Display
- ⑧ Auxiliary switch

- ⑨ Excuteon
- ⑩ Direct handle
- ⑪ Mounting spacers
- ⑫ Phase barriers

Introduction

3KC Transfer Switching Equipment up to 3200 A Technical Features

1

Manual transfer switching equipment (MTSE)

Technical specifications

Manual transfer switching equipment (MTSE) from 16 to 160 A, 3KC0....		16-M	22-...M	...26-M	28-N	30-...N	32-...N	34-N
Size		1			2			
Continuous current A		16	32	63	80	100	125	160
General technical details								
Operating voltage at 50/60 Hz AC in compliance with IEC 60947-6-1	V	415						
Operating voltage at 50/60 Hz AC in compliance with IEC 60947-3	V	690						
Insulation voltage (U_i)	V	AC 1000						
Impulse withstand voltage (U_{imp})	kV	8						
Overvoltage category with pollution degree 3		III						
Operational current in compliance with IEC 60947-6-1								
• AC-31 B, at 415 V	A	16	32	63	80	100	125	160
• AC-32 B, at 415 V	A	16	32	63	80	100	125	160
• AC-33 B, at 415 V	A	16	32	63	80	100	125	160
• AC-35 B, at 400 V	A	16	32	63	80	100	125	160
Operational current in compliance with IEC 60947-3								
• AC-21 A, at AC-22 A, at 415...690 V	A	16	32	63	80	100	125	160
• AC-23 A, at 415 V	A	16	32	63	80	100	125	160
• AC-23 A, at 500 V	A	16	32	63	80	100	125	160
• AC-23 A, at 690 V	A	16	32	63	80	100	125	160
Operational power in compliance with IEC 60947-3								
• AC-23 A, at 415 V	kW	7.5	15	30	37	55	55	90
• AC-23 A, at 500 V	kW	7.5	18.5	37	55	55	75	110
• AC-23 A, at 690 V	kW	11	30	55	75	90	110	110
Short-circuit behavior								
Short-circuit current ratings acc. to IEC 60947-6-1								
• Short-time withstand current (I_{cw} , 100 ms, 415 V) in compliance with IEC 60947-6-1	kA	5			10			
• Short-circuit current making capacity (I_{cm} , 415 V) in compliance with IEC 60947-6-1	kA	7.7			17			
Short-circuit current ratings in compliance with IEC 60947-3:								
• Short-time withstand current (I_{cw} , 1s, 415 V / 690 V) in compliance with IEC 60947-3	kA	3			4			
• Short-circuit current making capacity (I_{cm} , 690 V) in compliance with IEC 60947-3	kA	7			12			
Conditional short-circuit current with fuse:								
• Continuous current of upstream gG fuse, 500 V / 690 V	A	63			160			
• Conditional short-circuit current with gG fuse (415 V) in compliance with IEC 60947-6-1	kA	100			100			
• Conditional short-circuit current with gG fuse (415 V) in compliance with IEC 60947-3	kA	100			100			
• Conditional short-circuit current with gG fuse (690 V) in compliance with IEC 60947-3	kA	100			65			
• Let-through current of gG fuse 500 V; max. permissible	kA	8.1			18			
• Let-through current of gG fuse 690 V; max. permissible	kA	8.8			16			
• I^2t value of gG fuse 500 V; max. permissible	kA ² s	13.3			135.6			
• I^2t value of gG fuse 690 V; max. permissible	kA ² s	13.7			178.3			
Main conductor connections¹⁾								
Cu conductor, solid	mm ²	1 x (1 ... 16)			1 x (2.5 ... 16)			
Cu conductor, stranded	mm ²	1 x (6 ... 35)			1 x (10 ... 70)			
with cable lug (DIN 46234)	mm ²	--			--			
Cu busbar	mm	1 x 2 x 9			1 x 3 x 14			
Tightening torque for main contacts	Nm	5 ... 6.5			6.5 ... 8			
Other properties								
Real power loss per pole	W	0.2	0.6	2	2	3	4.5	7
Mechanical endurance		15000			15000			
Electrical endurance (AC-23A at 415 V / 690 V)		6000			1500			
IP protection class / with cover		IP20			IP20			
Ambient temperature								
• Operation	°C	-20 ... +70						
• Storage	°C	-50 ... +80						
Width x height x depth (3-pole transfer switching equipment)	mm	201.6 x 119 x 84.5			255.6 x 126 x 84.5			
Width x height x depth (4-pole transfer switching equipment)	mm	237.6 x 119 x 84.5			309.6 x 126 x 84.5			

¹⁾ Values for connection of aluminum cables can be found in the product data sheet, see [Siemens Industry Online Support](#)

Introduction

3KC Transfer Switching Equipment up to 3200 A

Technical Features

Manual transfer switching equipment (MTSE)

1

Manual transfer switching equipment (MTSE) from 200 to 500 A, 3KC0...		36-P 3	38-P 250	40-P 315	42-P 400	44-Q 4 500
Size Continuous current A		200	250	315	400	500
General technical details						
Operating voltage at 50/60 Hz AC according IEC 60947-6-1	V	415				
Operating voltage at 50/60 Hz AC according IEC 60947-3	V	690				
Insulation voltage (U_i)	V AC	1000				
Impulse withstand voltage (U_{imp})	kV	12				
Overvoltage category with pollution degree 3	IV					
Operational current according IEC 60947-6-1						
• AC-31 B, at 415 V	A	200	250	315	400	500
• AC-32 B, at 415 V	A	200	250	315	350	500
• AC-33 B, at 415 V	A	200	250	315	315	500
• AC-35 B, at 400 V	A	200	250	315	350	500
Operational current according IEC 60947-3						
• AC-21 A, at AC-22 A, at 415...690 V	A	200	250	315	400	500
• AC-23 A, at 415 V	A	200	250	315	400	500
• AC-23 A, at 500 V	A	200	250	315	350	500
• AC-23 A, at 690 V	A	200	250	315	315	500
Operational power according IEC 60947-3						
• AC-23 A, at 415 V	kW	110	132	160	220	280
• AC-23 A, at 500 V	kW	132	160	220	250	355
• AC-23 A, at 690 V	kW	185	220	280	355	500
Short-circuit behavior						
Short-circuit current ratings acc. to IEC 60947-6-1						
• Short-time withstand current (I_{cw} , 100 ms, 415 V) according IEC 60947-6-1	kA	18				30
• Short-circuit current making capacity (I_{cm} , 415 V) according IEC 60947-6-1	kA	36				63
Short-circuit current ratings according IEC 60947-3:						
• Short-time withstand current (I_{cw} , 1 s, 415 V / 690 V) according IEC 60947-3	kA	13				30
• Short-circuit current making capacity (I_{cm} , 690 V) according IEC 60947-3	kA	26				63
Conditional short-circuit current with fuse:						
• Continuous current of upstream gG fuse, 500 V / 690 V	A	250		400		630
• Conditional short-circuit current with gG fuse (415 V) according IEC 60947-6-1	kA	100		65		100
• Conditional short-circuit current with gG fuse (415 V) according IEC 60947-3	kA	100		65		100
• Conditional short-circuit current with gG fuse (690 V) according IEC 60947-3	kA	65		35		65
• Let-through current of gG fuse 500 V; max. permissible	kA	24.8		34.3		65.5
• Let-through current of gG fuse 690 V; max. permissible	kA	25		33		54
• I^2t value of gG fuse 500 V; max. permissible	kA ² s	426.5	426.5	1165	1165	3687.5
• I^2t value of gG fuse 690 V; max. permissible	kA ² s	348	348	1157.5	1157.5	4450
Main conductor connections¹⁾						
Cu conductor, solid	mm ²	-				-
Cu conductor, stranded	mm ²	-				-
with cable lug (DIN 46234)	mm ²	1 x (6 ... 240), 2 x (6 ... 150)				1 x (25 ... 240), 2 x (25 ... 240)
Cu busbar	mm	1 x 30 x 10				1 x 40 x 10, 2 x 40 x 5
Tightening torque for main contacts	Nm	30 ... 44				50 ... 75
Other properties						
Real power loss per pole	W	4	7	10	17	15
Mechanical endurance		10000				8000
Electrical endurance (AC-23A at 415 V / 690 V)		1000				1000
IP protection class / with cover		IP00 / IP20				IP00 / IP20
Ambient temperature						
• Operation	°C	-20 ... +70				
• Storage	°C	-50 ... +80				
Width x height x depth (3-pole transfer switching equipment)	mm	235 x 164 x 197.2				319 x 235 x 232.5
Width x height x depth (4-pole transfer switching equipment)	mm	279 x 164 x 197.2				379 x 235 x 232.5

¹⁾ Values for connection of aluminum cables can be found in the product data sheet, see [Siemens Industry Online Support](#)

Introduction

3KC Transfer Switching Equipment up to 3200 A Technical Features

Manual transfer switching equipment (MTSE)

1

Manual transfer switching equipment (MTSE) from 630 to 1600 A, 3KC0....		46-Q 4	48-Q 800	50-R 5	52-R 1250	54-R 1600
Size Continuous current A		630	800	1000	1250	1600
General technical details						
Operating voltage at 50/60 Hz AC according IEC 60947-6-1	V	415				
Operating voltage at 50/60 Hz AC according IEC 60947-3	V	690				
Insulation voltage (U_i)	V	AC 1000				
Impulse withstand voltage (U_{imp})	kV	12				
Overvoltage category with pollution degree 3		IV				
Operational current according IEC 60947-6-1						
• AC-31 B, at 415 V	A	630	800	1000	1250	1600
• AC-32 B, at 415 V	A	630	800	1000	1250	1250
• AC-33 B, at 415 V	A	500	500	800	800	800
• AC-35 B, at 400 V	A	630	800	1000	1250	1250
Operational current according IEC 60947-3						
• AC-21 A, at AC-22 A, at 415...690 V	A	630	800	1000	1250	1600
• AC-23 A, at 415 V	A	630	670	800	800	800
• AC-23 A, at 500 V	A	630	630	800	800	800
• AC-23 A, at 690 V	A	500	500	800	800	800
Operational power according IEC 60947-3						
• AC-23 A, at 415 V	kW	355	355	400	400	400
• AC-23 A, at 500 V	kW	400	400	560	560	560
• AC-23 A, at 690 V	kW	500	500	800	800	800
Short-circuit behavior						
Short-circuit current ratings acc. to IEC 60947-6-1						
• Short-time withstand current (I_{cw} , 100 ms, 415 V) according IEC 60947-6-1	kA	30		50		
• Short-circuit current making capacity (I_{cm} , 415 V) according IEC 60947-6-1	kA	63		105		
Short-circuit current ratings according IEC 60947-3:						
• Short-time withstand current (I_{cw} , 1 s, 415 V / 690 V) according IEC 60947-3	kA	30		50		
• Short-circuit current making capacity (I_{cm} , 690 V) according IEC 60947-3	kA	63		105		
Conditional short-circuit current with fuse:						
• Continuous current of upstream gG fuse, 500 V / 690 V	A	630	800	1000/-	1250/-	1600/-
• Conditional short-circuit current with gG fuse (415 V) according IEC 60947-6-1	kA	100	65	100	80	80
• Conditional short-circuit current with gG fuse (415 V) according IEC 60947-3	kA	100	65	100	80	80
• Conditional short-circuit current with gG fuse (690 V) according IEC 60947-3	kA	65	50	-	-	-
• Let-through current of gG fuse 500 V; max. permissible	kA	65.5	70.8	95.2	112.6	112.6
• Let-through current of gG fuse 690 V; max. permissible	kA	54	65	-	-	-
• I^2t value of gG fuse 500 V; max. permissible	kA ² s	3687.5	7471.7	15400	25960	30900
• I^2t value of gG fuse 690 V; max. permissible	kA ² s	4450	103000	-	-	-
Main conductor connections¹⁾						
Cu conductor, solid	mm ²	--		--		
Cu conductor, stranded	mm ²	--		--		
with cable lug (DIN 46234)	mm ²	1 x (25 ... 240), 2 x (25 ... 240)		1 x (120 ... 240), 2 x (95 ... 240)		
Cu busbar	mm	1 x 40 x 10, 2 x 40 x 5		2 x 60 x 10		
Tightening torque for main contacts	Nm	50 ... 75		50 ... 75		
Other properties						
Real power loss per pole	W	22	35	47	70	120
Mechanical endurance		8000		6000		
Electrical endurance (AC-23A at 415 V / 690 V)		1000		500		
IP protection class / with cover		IP00 / IP20		IP00 / IP20		
Ambient temperature						
• Operation	°C	-20 ... +70				
• Storage	°C	-50 ... +80				
Width x height x depth (3-pole transfer switching equipment)	mm	319 x 235 x 232.5		475 x 310 x 311.5		
Width x height x depth (4-pole transfer switching equipment)	mm	379 x 235 x 232.5		565 x 310 x 311.5		

¹⁾ Values for connection of aluminum cables can be found in the product data sheet, see [Siemens Industry Online Support](#)

Remote transfer switching equipment (RTSE) / Automatic transfer switching equipment (ATSE)

1

Technical specifications

Transfer switching equipment RTSE and ATSE from 40 to 160 A		3KC3424	3KC3426	3KC3428	3KC3430	3KC3432	3KC3434
		3KC6424	3KC6426	3KC6428	3KC6430	3KC6432	3KC6434
Continuous current A		40	63	80	100	125	160
General technical details							
Operating voltage at 50/60 Hz AC	V	415					
Insulation voltage	V	800 AC					
Impulse withstand voltage (U_{imp}) of the main circuit	kV	6					
Impulse withstand voltage (U_{imp}) of the control circuit	kV	RTSE: 4 / ATSE: 2.5					
Overvoltage category with pollution degree 3		RTSE: III / ATSE: II					
Operational current in compliance with IEC 60947-6-1							
• AC-31 A/B 415 V	A	40	63	80	100	100/125	100/160
• AC-32 A/B 415 V	A	40	63	80	100	100/125	100/160
• AC-33 B 415 V	A	40	63	80	100	125	125
Operational current in compliance with IEC 60947-3							
• AC-21 A/B 415 V	A	40	63	80	100	125	125/160
• AC-21 A/B 690 V	A	40	63	80	100	125	125
• AC-22 A/B 415 V	A	40	63	80	100	125	125/160
• AC-22 A/B 690 V	A	40	63	80	80	100/125	100/125
• AC-23 A/B 415 V	A	40	63	80	100	125	125/160
• AC-23 A/B 690 V	A	40	63	63	80	80	80
Operational power in compliance with IEC 60947-3							
• AC-23 A/B 415 V	kW	22	37	45	55	60	75
• AC-23 A/B 690 V	kW	37	55	55	75	75	75
Short-circuit behavior							
Short-circuit current ratings in compliance with IEC 60947-3							
• Short-time withstand current (I_{cw} , 1 s, 415 V)	kA	4					
• Short-time withstand current (I_{cw} , 50 ms, 415 V)	kA	10					
• Short-circuit current making capacity (I_{cm} , 415 V)	kA	5.88					
Conditional short-circuit current with fuse							
• Continuous current of series-connected fuse	A	40	63	80	100	125	160
• Conditional short-circuit current with fuse (415 V), IEC 60947-6-1	kA	50	50	50	50	50	40
• Conditional short-circuit current with fuse (415 V), IEC 60947-3	kA	50	50	50	50	50	40
• Let-through current of gG fuse at 415 V; max. permissible	kA	14	14	14	14	14	17
• I^2t value of gG fuse at 400/500 V; max. permissible	kA ² s	61.3	61.3	61.3	61.3	64.3	109
Transfer switching properties							
Switching time I-O & II-O	ms	45					
Switch-off time I-O-II & II-O-I, IEC 60947-6-1	ms	150					
Transfer time I-O-II & II-O-I, IEC 60947-6-1	ms	180					
Transfer time I-O-II & II-O-I, IEC 60947-6-1 with network monitoring	s	1.4					
Motorized operating mechanism rated apparent power at 230 V AC	VA	6					
Motorized operating mechanism peak inrush current at 230 V AC	A	30					
Main conductor connections							
• Cu conductor, solid	mm ²	1 x (10 ... 70)					
• Cu conductor, stranded	mm ²	1 x (10 ... 70)					
• with cable lug (DIN 46234)	mm ²	--					
• Cu busbar	mm	--					
Tightening torque for main contacts	Nm	5					
Other properties							
Real power loss per pole	W	0.5	1.2	2.2	4	5.2	8.7
Mechanical endurance		8500				7000	
Electrical endurance (AC-23A at 415 V)		1500				1000	
IP protection class / with cover		IP00 / IP20					
Ambient temperature							
• Operation	°C	-20 ... +70					
• Storage	°C	-40 ... +70					
Width x height x depth (4-pole switch)	mm	340 x 245 x 73.5					

Introduction

3KC Transfer Switching Equipment up to 3200 A

Technical Features

1

Remote transfer switching equipment (RTSE) / Automatic transfer switching equipment (ATSE)

Technical specifications

Transfer switching equipment RTSE and ATSE from 250 to 1000 A		3KC4.38 3KC8.38	3KC4.42 3KC8.42	3KC4.46 3KC8.46	3KC4.48 3KC8.48	3KC4.50 3KC8.50
Continuous current	A	250	400	630	800	1000
General technical details						
Operating voltage at 50/60 Hz AC in compliance with IEC 60947-6-1	V	415				
Operating voltage at 50/60 Hz AC in compliance with IEC 60947-3	V	690				
Insulation voltage	V	1000 AC / 1000 DC				
Impulse withstand voltage (U_{imp}) of the main circuit	kV	12	12	12	12	12
Impulse withstand voltage (U_{imp}) of the control circuit	kV	4	4	4	4	4
Overvoltage category with pollution degree 3		RTSE: IV / ATSE: III				
Operational current in compliance with IEC 60947-6-1						
• AC-31 B 415 V	A	250	400	630	800	1000
• AC-32 B 415 V	A	200	400	500	800	1000
• AC-33 B 415 V	A	200	200	400	800	800
Operational current in compliance with IEC 60947-3						
• AC-21 A/B 415 V	A	250	400	630	800	1000
• AC-21 A/B 690 V	A	200	200	500	800	1000
• AC-22 A/B 415 V	A	250	400	630	800	1000
• AC-22 A/B 690 V	A	160	160	400	630	800
• AC-23 A/B 415 V	A	200	400	500/630	800	1000
• AC-23 A/B 690 V	A	125	125	400	630	630
• DC-21/-22 A 220 V	A	250	250	630	800	1000
• DC-21/-22/-23 A 440 V; DC-23 220 V	A	200	200	630	800	1000
Operational power in compliance with IEC 60947-3						
• AC-23 A/B 415 V	kW	110	220	335	450	700
• AC-23 A/B 690 V	kW	110	110	400	400	630
Short-circuit behavior						
Short-circuit current ratings acc. to IEC 60947-6-1						
• Short-time withstand current (I_{cw} , 60 ms, 415 V)	kA	10 at 30 ms	10 at 30 ms	12.6	20	20
• Short-circuit current making capacity (I_{cm} , 415 V)	kA	17	17	25.2	40	40
Short-circuit current ratings in compliance with IEC 60947-3						
• Short-time withstand current (I_{cw} , 60 ms, 415 V)	kA	8 at 690 V	8 at 690 V	10 at 690 V	35	35
• Short-circuit current making capacity (I_{cm} , 415 V)	kA	22 at 690 V	30 at 690 V	17 at 690 V	73.5	73.5
Conditional short-circuit current with fuse						
• Continuous current of series-connected fuse	A	250	400	630	800	1000
• Conditional short-circuit current with fuse (690 V), IEC 60947-3	kA	50	50	50	50	50
• Conditional short-circuit current with fuse (415 V), IEC 60947-6-1	kA	50	50	50	50	50
• Let-through current of gG fuse at 415 V; max. permissible	kA	22	30	42	51	60
• I^2t value of gG fuse at 400/500 V; max. permissible	kA ² s	200	600	3000	6000	6300
Transfer switching properties						
Switching time I-O & II-O	s	0.5	0.5	0.6	1.4/	1.4
Switch-off time I-O-II & II-O-I, IEC 60947-6-1	s	0.4	0.4	0.4	1.4	1.4
Transfer time I-O-II & II-O-I, IEC 60947-6-1	s	0.9	0.9	1	2.8	2.8
Transfer time I-O-II & II-O-I, IEC 60947-6-1 with network monitoring	s	1	1	1.1	3.1	3.1
Motorized operating mechanism rated apparent power at 230 V AC	VA	115	115	150	184	184
Motorized operating mechanism peak inrush current at 230 V AC	A	1.2	1.2	1.2	2	2
Main conductor connections						
• Cu conductor, solid	mm ²	1 x (95 ... 150)	1 x (185 ... 240)	2 x (150 ... 300)	2 x (185 ... 300)	2 x 240 ... 4 x 185
• Cu conductor, stranded	mm ²	1 x (95 ... 150)	1 x (185 ... 240)	2 x (150 ... 300)	2 x (185 ... 300)	2 x 240 ... 4 x 185
• with cable lug (DIN 46234)	mm ²	1 x 150	1 x 240	2 x 300	2 x 300	4 x 185
• Cu busbar	mm	1 x 32 x 5	1 x 32 x 8	2 x 40 x 5	2 x 50 x 5	2 x 60 x 5
• Tightening torque for main contacts	Nm	20 ... 26	20 ... 26	40 ... 45	8.3 ... 13	8.3 ... 13
Other properties						
Real power loss per pole	W	5.9	15.1	32.4	41.7	46.9
Mechanical endurance		7000	4000	4000	2500	2500
Electrical endurance (AC-23B at 415 V)		1000	1000	1000	500	500
IP protection class / with cover		IP00 / IP20				
Ambient temperature during operation	°C	-20 ... +70				
Ambient temperature during storage	°C	-40 ... +70				
Width x height x depth (3-pole switch)	mm	328 x 160 x 292	328 x 170 x 292	377 x 260 x 369	504 x 370 x 440	504 x 370 x 440
Width x height x depth (4-pole switch)	mm	378 x 160 x 292	378 x 170 x 292	437 x 260 x 369	584 x 370 x 440	584 x 370 x 440

Introduction

3KC Transfer Switching Equipment up to 3200 A

Technical Features

Remote transfer switching equipment (RTSE) / Automatic transfer switching equipment (ATSE)

1

Transfer switching equipment RTSE and ATSE from 1250 to 3200 A		3KC4.52 3KC8.52 1250	3KC4.54 3KC8.54 1600	3KC4.56 3KC8.56 2000	3KC4.58 3KC8.58 2500	3KC4.60 3KC8.60 3200
Continuous current	A					
General technical details						
Operating voltage at 50/60 Hz AC in compliance with IEC 60947-6-1	V	415				
Operating voltage at 50/60 Hz AC in compliance with IEC 60947-3	V	690				
Insulation voltage	V	1000 AC / 1000 DC				
Impulse withstand voltage (U_{imp}) of the main circuit	kV	12	12	12	12	12
Impulse withstand voltage (U_{imp}) of the control circuit	kV	4	4	4	4	4
Overvoltage category with pollution degree 3		RTSE: IV / ATSE: III				
Operational current in compliance with IEC 60947-6-1						
• AC-31 B 415 V	A	1250	1600	2000	2500	3200
• AC-32 B 415 V	A	1250	1600	2000	2000	2000
• AC-33 B 415 V	A	1000	1000	1250	1250	1250
Operational current in compliance with IEC 60947-3						
• AC-21 A/B 415 V	A	1250	1600	-/2000	-/2500	-/3200
• AC-21 A/B 690 V	A	1250	1600	-/2000	-/2000	-/2000
• AC-22 A/B 415 V	A	1250	1600	-/2000	-/2500	-/3200
• AC-22 A/B 690 V	A	1000	1000	-	-	-
• AC-23 A/B 415 V	A	1250	1250	-/1600	-/1600	-/1600
• AC-23 A/B 690 V	A	800	800	-	-	-
• DC-21/-22 A 220 V	A	1250	1250	--	--	--
• DC-21/-22/-23 A 440 V; DC-23 220 V	A	1250	1250	--	--	--
Operational power in compliance with IEC 60947-3						
• AC-23 A/B 415 V	kW	800	900	-	-	-
• AC-23 A/B 690 V	kW	800	800	-	-	-
Short-circuit behavior						
Short-circuit current ratings acc. to IEC 60947-6-1						
• Short-time withstand current (I_{cw} , 60 ms, 415 V)	kA	25	32	50	50	50
• Short-circuit current making capacity (I_{cm} , 415 V)	kA	52.5	67.2	105	105	105
Short-circuit current ratings in compliance with IEC 60947-3						
• Short-time withstand current (I_{cw} , 60 ms, 415 V)	kA	35	50	50	50	50
• Short-circuit current making capacity (I_{cm} , 415 V)	kA	73.5	105	105	105	105
Conditional short-circuit current with fuse						
• Continuous current of series-connected fuse	A	1250	2 x 800	--	--	--
• Conditional short-circuit current with fuse (690 V), IEC 60947-3	kA	100	100	--	--	--
• Conditional short-circuit current with fuse (415 V), IEC 60947-6-1	kA	100	100	--	--	--
• Let-through current of gG fuse at 415 V; max. permissible	kA	100	100	--	--	--
• I^2t value of gG fuse at 400/500 V; max. permissible	kA ² s	--	--	--	--	--
Transfer switching properties						
Switching time I-O & II-O RTSE / ATSE	s	1.4	1.4	1.6	1.6	1.6
Switch-off time I-O-II & II-O-I, IEC 60947-6-1	s	1.4	1.5	1.2	1.2	1.2
Transfer time I-O-II & II-O-I, IEC 60947-6-1	s	2.8	2.9	2.8	2.8	2.8
Transfer time I-O-II & II-O-I, IEC 60947-6-1 with network monitoring	s	3.1	3.3	2.8	2.8	2.8
Motorized operating mechanism rated apparent power at 230 V AC	VA	184	230	322	322	322
Motorized operating mechanism peak inrush current at 230 V AC	A	2	2	3.5	3.5	3.5
Main conductor connections						
• Cu conductor, solid	mm ²	4 x 185	6 x 185	--	--	--
• Cu conductor, stranded	mm ²	4 x 185	6 x 185	--	--	--
• with cable lug (DIN 46234)	mm ²	4 x 185	6 x 185	--	--	--
• Cu busbar	mm	2 x 60 x 7	2 x 100 x 5	3 x 100 x 5	2 x 100 x 10	3 x 100 x 10
• Tightening torque for main contacts	Nm	20 ... 26	40 ... 45	40 ... 45	40 ... 45	40 ... 45
Other properties						
Real power loss per pole	W	93.3	122	178	255	330
Mechanical endurance		2500	2500	1500	1500	1500
Electrical endurance (AC-23B at 415 V)		500	500	500	500	500
IP protection class / with cover		IP00 / IP20				
Ambient temperature during operation	°C	-20 ... +70				
Ambient temperature during storage	°C	-40 ... +70				
Width x height x depth (3-pole switch)	mm	504 x 370 x 440	596 x 380 x 440	596 x 380 x 569	596 x 380 x 569	596 x 380 x 569
Width x height x depth (4-pole switch)	mm	584 x 370 x 440	716 x 380 x 440	716 x 380 x 569	716 x 380 x 569	716 x 380 x 569

Introduction

3KC Transfer Switching Equipment up to 3200 A Technical Features

Controllers for ATSE 40 to 160 A and 250 to 3200 A

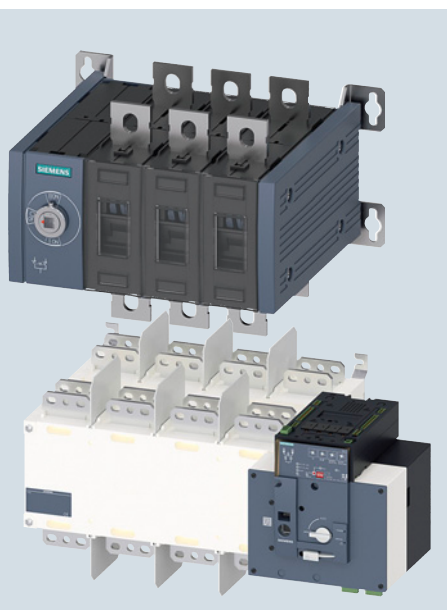
Technical specifications

		3KC6 (40 to 160 A)	3KC8 (250 to 3200 A)
ATS settings			
• Network variants		3, 3 + N	1+N, 3, 3+N
• Transfer delay	s	0 ... 30	0 ... 60
• Return transfer delay	min	0 ... 30	0 ... 60
• Frequency deviation	%	10 or 20	±3 ... 10
• Voltage	%	10 or 20	±5 ... 20
Metering inputs			
Maximum rated voltage (U_n)			
• Phase-phase	V AC	415	480
• Phase-neutral	V AC	230	277
Metering range (L-N)	V	166 ... 288	30 ... 332
Metering range (L-L)	V	288 ... 498	30 ... 600
Measuring frequency	Hz	30 ... 70	30 ... 70
Input impedance (L-L)	MΩ	5.5	12
Number of monitored phases		3	1 or 3
Measurement method		Three-phase, true RMS	True RMS
Relative error of measurement method	%	1	0.5
Auxiliary supply			
Connection type		Integrated dual power supply with internal wiring	Integrated dual power supply
Rated voltage (AC)	V	230	230
Supply voltage range (AC)	V	176 ... 288	166 ... 332
Frequency	Hz	45 ... 65	45 ... 65
Real power loss (230V AC) ¹⁾	W	2	2.5
Impulse withstand voltage (U_{imp}) of the control circuit kV	kV	2.5	4
Overvoltage category of the control circuit		III	III
Digital inputs			
Number of inputs		3	10
Note / digital input ²⁾		0 position; auto inhibit; system priority, test with load	0 position, I position, II position, 0 position with priority, release for remote control, auto inhibit, system priority, stabilization switching delay, test priority, test without load, test with load
Input delay time	ms	30	46
Number of relay outputs		3NO at 5A 250 VAC / 2A 30 V DC	6NO at 5A 250 VAC / 2A 24 V DC
Supplementary notes on relay outputs ²⁾		Switch positions I, 0, II	Motorized operating mechanism status, switch positions I, 0, II, ATS status, generator
Connections			
Terminals		Removable/insertable	Removable/insertable
Connectable conductor cross-section / stranded, solid	mm ²	0.5 ... 1.5	1.5 ... 2.5
Connectable conductor cross-section / solid	AWG	20 ... 14	16 ... 14
Connectable conductor cross-section / stranded	AWG	20 ... 16	16 ... 14
Tightening torque	Nm	0.5	0.5 ... 0.6

¹⁾ In addition to power loss of motorized operating mechanism

²⁾ For more information, see [3KC manual](#)

Switch Disconnectors and Transfer Switching Equipment



NEW

Direct reference to the products in the Industry Mall from the selection and ordering data tables:

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

3VA2025-5HL36-0AA0

Paper catalog:
 To get more product information enter the Web address plus Article No.



PDF catalog:
 Get more product information with just a mouse click.

3KC transfer switching equipment up to 3200 A

Base units
 Introduction

2/2

Manual transfer switching equipment MTSE from 16 to 160 A

2/3

Base units

2/4

Accessories and spare parts

Manual transfer switching equipment MTSE from 200 to 1600 A

2/8

Base units

2/9

Accessories and spare parts

Remote transfer switching equipment RTSE from 40 to 160 A

2/16

Base units

Remote transfer switching equipment RTSE from 250 to 3200 A

2/17

Base units

Automatic transfer switching equipment ATSE from 40 to 160 A

2/19

Base units

Automatic transfer switching equipment ATSE from 250 to 3200 A

2/20

Base units

3KC transfer switching equipment RTSE and ATSE from 40 to 160 A

2/22

Accessories and spare parts

3KC transfer switching equipment RTSE and ATSE from 250 to 3200 A

2/23

Accessories and spare parts

For further technical product information:

Siemens Industry Online Support:
www.siemens.com/lowvoltage/product-support

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

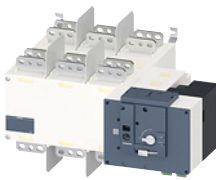
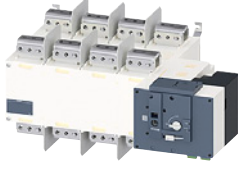
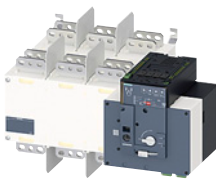
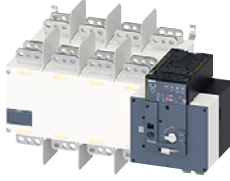
Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

Introduction

Overview

2

Devices		Description	Page
Switch versions			
3-pole	4-pole		
		MTSE from 16 ... 160 A Manual transfer switching equipment (MTSE)	2/3
		• Ready-to-install combinations comprising switch disconnectors and operating mechanisms • 3and 4-pole switch disconnectors with front operating mechanisms, operating mechanism in the center • Connection via box terminals	
		MTSE from 200 ... 1600 A Manual transfer switching equipment (MTSE)	2/8
		• Ready-to-install combinations comprising switch disconnectors and operating mechanisms • 3and 4-pole switch disconnectors with front operating mechanisms, operating mechanism on the left • Connection via flat terminals	
--		RTSE from 40 ... 160 A Remote transfer switching equipment (RTSE)	2/16
		• Ready-to-install combinations comprising switch disconnectors, motorized operating mechanisms and handle • External control supported • 4-pole switch disconnectors with motorized operating mechanism on the right • Connection via box terminals	
		RTSE from 250 ... 3200 A Remote transfer switching equipment (RTSE)	2/17
		• Ready-to-install combinations comprising switch disconnectors, motorized operating mechanisms and handle • External control supported • 3and 4-pole switch disconnectors with motorized operating mechanism on the right • Connection via flat terminals	
--		ATSE from 40 ... 160 A Automatic transfer switching equipment (ATSE)	2/19
		• Ready-to-install combinations comprising switch disconnectors, motorized operating mechanism, handle and integrated controller • Already wired ready for operation • 4-pole switch disconnectors with motorized operating mechanism on the right • Connection via box terminals	
		ATSE from 250 ... 3200 A Automatic transfer switching equipment (ATSE)	2/20
		• Ready-to-install combinations comprising switch disconnectors, motorized operating mechanism, handle and integrated controller • Direct control signal for generator supported • 3and 4-pole switch disconnectors with motorized operating mechanism on the right • Connection via flat terminals	

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A
Manual Transfer Switching Equipment MTSE from 16 to 160 A

Base units

Selection and ordering data

	Rated uninterrupted current I_u	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg																																												
A																																																					
MTSE base units without handle, front operating mechanism, operating mechanism in center The transfer switches are suitable for standard rail mounting and can also optionally be used for base mounting (assembly kit for base mounting necessary)																																																					
3-pole Box terminals  <table><tr><td>16</td><td rowspan="3">1</td><td>3KC0316-2ME00-0AA0</td><td>1</td><td>1 unit</td><td>1CL</td><td>1.800</td></tr><tr><td>32</td><td>3KC0322-2ME00-0AA0</td><td>1</td><td>1 unit</td><td>1CL</td><td>1.800</td></tr><tr><td>63</td><td>3KC0326-2ME00-0AA0</td><td>1</td><td>1 unit</td><td>1CL</td><td>1.800</td></tr><tr><td>80</td><td rowspan="4">2</td><td>3KC0328-2NE00-0AA0</td><td>1</td><td>1 unit</td><td>1CL</td><td>2.550</td></tr><tr><td>100</td><td>3KC0330-2NE00-0AA0</td><td>1</td><td>1 unit</td><td>1CL</td><td>2.550</td></tr><tr><td>125</td><td>3KC0332-2NE00-0AA0</td><td>1</td><td>1 unit</td><td>1CL</td><td>2.550</td></tr><tr><td>160</td><td>3KC0334-2NE00-0AA0</td><td>1</td><td>1 unit</td><td>1CL</td><td>2.550</td></tr></table> 										16	1	3KC0316-2ME00-0AA0	1	1 unit	1CL	1.800	32	3KC0322-2ME00-0AA0	1	1 unit	1CL	1.800	63	3KC0326-2ME00-0AA0	1	1 unit	1CL	1.800	80	2	3KC0328-2NE00-0AA0	1	1 unit	1CL	2.550	100	3KC0330-2NE00-0AA0	1	1 unit	1CL	2.550	125	3KC0332-2NE00-0AA0	1	1 unit	1CL	2.550	160	3KC0334-2NE00-0AA0	1	1 unit	1CL	2.550
16	1	3KC0316-2ME00-0AA0	1	1 unit	1CL	1.800																																															
32		3KC0322-2ME00-0AA0	1	1 unit	1CL	1.800																																															
63		3KC0326-2ME00-0AA0	1	1 unit	1CL	1.800																																															
80	2	3KC0328-2NE00-0AA0	1	1 unit	1CL	2.550																																															
100		3KC0330-2NE00-0AA0	1	1 unit	1CL	2.550																																															
125		3KC0332-2NE00-0AA0	1	1 unit	1CL	2.550																																															
160		3KC0334-2NE00-0AA0	1	1 unit	1CL	2.550																																															
4-pole Box terminals  <table><tr><td>16</td><td rowspan="3">1</td><td>3KC0416-2ME00-0AA0</td><td>1</td><td>1 unit</td><td>1CL</td><td>2.100</td></tr><tr><td>32</td><td>3KC0422-2ME00-0AA0</td><td>1</td><td>1 unit</td><td>1CL</td><td>2.100</td></tr><tr><td>63</td><td>3KC0426-2ME00-0AA0</td><td>1</td><td>1 unit</td><td>1CL</td><td>2.100</td></tr><tr><td>80</td><td rowspan="4">2</td><td>3KC0428-2NE00-0AA0</td><td>1</td><td>1 unit</td><td>1CL</td><td>3.050</td></tr><tr><td>100</td><td>3KC0430-2NE00-0AA0</td><td>1</td><td>1 unit</td><td>1CL</td><td>3.050</td></tr><tr><td>125</td><td>3KC0432-2NE00-0AA0</td><td>1</td><td>1 unit</td><td>1CL</td><td>3.050</td></tr><tr><td>160</td><td>3KC0434-2NE00-0AA0</td><td>1</td><td>1 unit</td><td>1CL</td><td>3.050</td></tr></table> 										16	1	3KC0416-2ME00-0AA0	1	1 unit	1CL	2.100	32	3KC0422-2ME00-0AA0	1	1 unit	1CL	2.100	63	3KC0426-2ME00-0AA0	1	1 unit	1CL	2.100	80	2	3KC0428-2NE00-0AA0	1	1 unit	1CL	3.050	100	3KC0430-2NE00-0AA0	1	1 unit	1CL	3.050	125	3KC0432-2NE00-0AA0	1	1 unit	1CL	3.050	160	3KC0434-2NE00-0AA0	1	1 unit	1CL	3.050
16	1	3KC0416-2ME00-0AA0	1	1 unit	1CL	2.100																																															
32		3KC0422-2ME00-0AA0	1	1 unit	1CL	2.100																																															
63		3KC0426-2ME00-0AA0	1	1 unit	1CL	2.100																																															
80	2	3KC0428-2NE00-0AA0	1	1 unit	1CL	3.050																																															
100		3KC0430-2NE00-0AA0	1	1 unit	1CL	3.050																																															
125		3KC0432-2NE00-0AA0	1	1 unit	1CL	3.050																																															
160		3KC0434-2NE00-0AA0	1	1 unit	1CL	3.050																																															

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

Manual Transfer Switching Equipment MTSE from 16 to 160 A

Accessories and spare parts

Selection and ordering data

Additional poles

	Version	Circuit symbol	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		mm							
	4th contact (switching pole)	N 							
	Box terminals								
	for size 1; 3KC0...-M			3KD9105-2		1	1 unit	1CL	0.269
	for size 2; 3KC0...-N			3KD9205-2		1	1 unit	1CL	0.380

4th contact, box terminal,
for size 2

Direct operating mechanisms

	Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Direct operating mechanisms in standard version and flat version								
	Standard version							
	Can be locked with up to 3 padlocks, requires additional mounting depth in locked state							
	Gray							
	for sizes 1/2; 3KC0...-M/N		3KC9201-3		1	1 unit	1CL	0.048
	Flat version (suitable for distribution boards)							
	Can be locked with one padlock, requires no additional mounting depth in locked state							
	Gray							
	for size 1; 3KC0...-M		3KC9101-4		1	1 unit	1CL	0.021

Direct operating mechanism,
flat version, gray, for size 1

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

Manual Transfer Switching Equipment MTSE from 16 to 160 A

Accessories and spare parts

Door-coupling rotary operating mechanisms

Version	Handle length mm	Shaft size mm x mm	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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Door-coupling rotary operating mechanisms, complete, 8UD1 series

Door-coupling rotary operating mechanisms, complete, labeling I O II

- Handle with masking plate
- Coupling driver with tolerance compensation
- Shaft 300 mm
- Labeling I O II

Gray

for sizes 1/2, 3KC0...-M/N

55

8 x 8

8UD1131-2AE21

1

1 unit

1CL

0.510



Handles for door-coupling rotary operating mechanisms, 8UD1 series

Handles without extension shaft, without coupling driver, labeling I O II

- With masking plate
- Labeling I -O II

Gray

for sizes 1/2, 3KC0...-M/N

55

8 x 8

8UD1731-2AE01

1

1 unit

1CL

0.165



Red/yellow

for sizes 1/2, 3KC0...-M/N

55

8 x 8

8UD1731-2AE05

1

1 unit

1CL

0.165



Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

Manual Transfer Switching Equipment MTSE from 16 to 160 A

Accessories and spare parts

2

Version	Handle length mm	Shaft size mm x mm	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
---------	---------------------	-----------------------	----	--	-----------------	-------------------------	-----------------	----	-----------------------------------

Other accessories for door-coupling rotary operating mechanisms, 8UD1 series

Extension shafts

300 mm long

for sizes 1/2, 3KC0...-M/N

--

8 x 8

8UC6032

1

1 unit

1CL

0.135



8UC6032

Coupling drivers with tolerance compensation

for sizes 1/2, 3KC0...-M/N

--

8 x 8

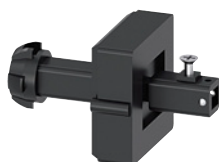
8UD1900-2GA00

1

1 unit

1CB

0.061



8UD1900-2GA00

Coupling drivers without tolerance compensation

for sizes 1/2, 3KC0...-M/N

--

8 x 8

8UD1900-2HA00

1

1 unit

1CB

0.015



8UD1900-2HA00

Shaft couplings

for sizes 1/2, 3KC0...-M/N

--

8 x 8

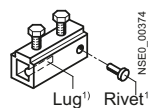
8UC6022

1

1 unit

1CL

0.022



8UC6022

¹⁾ Non-interchangeability features

Auxiliary switches

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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Auxiliary switch modules

Unit is supplied without auxiliary switches; a maximum of 2 auxiliary switches can be installed

for sizes 1/2, 3KC0...-M/N

3KD9103-5

1

1 unit

1CL

0.154



3KD9103-5

Auxiliary switches for sizes 1 and 2

With soldered-on 50 cm connection cables

- 1 CO

3KD9103-1

1

1 unit

1CL

0.112

- 1 CO contact, solid-state compatible

3KD9103-3

1

1 unit

1CL

0.118



3KD9103-3

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A
Manual Transfer Switching Equipment MTSE from 16 to 160 A

Accessories and spare parts

Bridging bars

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Bridging bars							
for load-side connection 3-pole for size 1; 3KC....-M		3KC9118-1		1	1 unit	1CL	0.203
for size 2; 3KC....-N		3KC9218-1		1	1 unit	1CL	0.280
4-pole							
for size 1; 3KC....-M		3KC9118-2		1	1 unit	1CL	0.298
for size 2; 3KC....-N		3KC9218-2		1	1 unit	1CL	0.415

Other accessories

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Mounting, assembly kit for base mounting							
- for base mounting - contains 4 mounting brackets and two mounting plates - for 3-pole and 4-pole devices for sizes 1/2, 3KC0...-M/N		3KC9120-1		1	1 unit	1CL	0.039
Spare part for assembly kit for base mounting							
Mounting bracket - contains 4 units - for 3-pole and 4-pole devices Mounting bracket for sizes 1/2, 3KC0...-M/N		3KD9120-1		1	1 unit	1CL	0.091

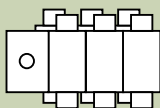
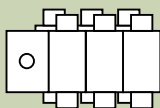
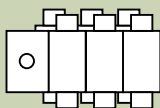
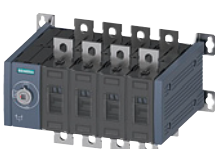
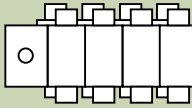
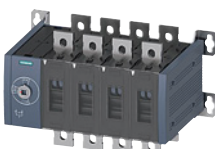
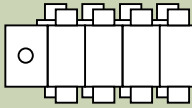
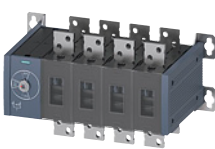
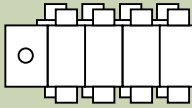
Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

Manual Transfer Switching Equipment MTSE from 200 to 1600 A

Base units

Selection and ordering data

	Rated uninterrupted current I_u	Size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
A									
MTSE base units without handle, front operating mechanism, operating mechanism on left									
The transfer switches are designed for base mounting									
3-pole									
Flat terminals									
	200	3		3KC0336-0PE00-0AA0	1	1 unit	1CL	7.750	
	250			3KC0338-0PE00-0AA0	1	1 unit	1CL	7.750	
	315			3KC0340-0PE00-0AA0	1	1 unit	1CL	7.750	
	400			3KC0342-0PE00-0AA0	1	1 unit	1CL	7.750	
	500	4		3KC0344-0QE00-0AA0	1	1 unit	1CL	18.700	
	630			3KC0346-0QE00-0AA0	1	1 unit	1CL	18.700	
	800			3KC0348-0QE00-0AA0	1	1 unit	1CL	18.700	
	1000	5		3KC0350-0RE00-0AA0	1	1 unit	1CL	41.900	
	1250			3KC0352-0RE00-0AA0	1	1 unit	1CL	41.900	
	1600			3KC0354-0RE00-0AA0	1	1 unit	1CL	41.900	
4-pole									
Flat terminals									
	200	3		3KC0436-0PE00-0AA0	1	1 unit	1CL	8.850	
	250			3KC0438-0PE00-0AA0	1	1 unit	1CL	8.850	
	315			3KC0440-0PE00-0AA0	1	1 unit	1CL	8.850	
	400			3KC0442-0PE00-0AA0	1	1 unit	1CL	8.850	
	500	4		3KC0444-0QE00-0AA0	1	1 unit	1CL	21.700	
	630			3KC0446-0QE00-0AA0	1	1 unit	1CL	21.700	
	800			3KC0448-0QE00-0AA0	1	1 unit	1CL	21.700	
	1000	5		3KC0450-0RE00-0AA0	1	1 unit	1CL	49.100	
	1250			3KC0452-0RE00-0AA0	1	1 unit	1CL	49.100	
	1600			3KC0454-0RE00-0AA0	1	1 unit	1CL	49.100	

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A
Manual Transfer Switching Equipment MTSE from 200 to 1600 A

Accessories and spare parts

Selection and ordering data

Direct operating mechanisms

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Direct operating mechanisms							
  	Can be locked with up to max. 3 padlocks Gray for size 3, 3KC0...-P	3KC9301-1		1	1 unit	1CL	0.131
	for size 4, 3KC0...-Q	3KC9401-1		1	1 unit	1CL	0.295
	for size 5, 3KC0...-R	3KC9501-1		1	1 unit	1CL	0.586
  	Red/yellow for size 3, 3KC0...-P	3KC9301-2		1	1 unit	1CL	0.131
	for size 4, 3KC0...-Q	3KC9401-2		1	1 unit	1CL	0.295
	for size 5, 3KC0...-R	3KC9501-2		1	1 unit	1CL	0.586

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

Manual Transfer Switching Equipment MTSE from 200 to 1600 A

Accessories and spare parts

Door-coupling rotary operating mechanisms and relevant handles

Version	Handle length	Shaft size	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	mm	mm x mm							

Door-coupling rotary operating mechanisms, complete, 8UD1 series

Door-coupling rotary operating mechanisms, complete, labeling I O II

- Handle with masking plate
- Shaft 300 mm
- Coupling driver with tolerance compensation
- Labeling I O II

Gray



for size 3, 3KC0...-P

100

8 x 8

[8UD1141-2AE21](#)

1

1 unit

1CL

0.852



for size 4, 3KC0...-Q

140

10 x 10

[8UD1151-3AE21](#)

1

1 unit

1CL

0.956



for size 5, 3KC0...-R

200

12 x 12

[8UD1161-4AE21](#)

1

1 unit

1CL

1.100

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A
Manual Transfer Switching Equipment MTSE from 200 to 1600 A

Accessories and spare parts

	Version	Handle length	Shaft size	DT	Article No. www.siemens.com/product?ArticleNo.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
		mm	mm x mm							kg
Handles for door-coupling rotary operating mechanisms, 8UD1 series										
Handles without extension shaft and coupling driver, labeling I -0 II										
• With masking plate • Labeling I 0 II										
	Gray for size 3, 3KC0...-P	100	8 x 8		8UD1841-2AE01		1	1 unit	1CL	0.637
	for size 4, 3KC0...-Q	140	10 x 10		8UD1851-3AE01		1	1 unit	1CL	0.654
	for size 5, 3KC0...-R	200	12 x 12		8UD1861-4AE01		1	1 unit	1CL	0.690
	Red/yellow for size 3, 3KC0...-P	100	8 x 8		8UD1841-2AE05		1	1 unit	1CL	0.636
	for size 4, 3KC0...-Q	140	10 x 10		8UD1851-3AE05		1	1 unit	1CL	0.654
	for size 5, 3KC0...-R	200	12 x 12		8UD1861-4AE05		1	1 unit	1CL	0.692

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

Manual Transfer Switching Equipment MTSE from 200 to 1600 A

Accessories and spare parts

2

Version	Handle length	Shaft size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	mm	mm x mm							kg

Other accessories for door-coupling rotary operating mechanisms, 8UD1 series

Extension shafts

300 mm long

for size 3, 3KC0...-P

8 x 8

[8UC6032](#)

1

1 unit

1CL

0.135

for size 4, 3KC0...-Q

--

10 x 10

[8UC6033](#)

1

1 unit

1CL

0.215

for size 5, 3KC0...-R

--

12 x 12

[8UC6034](#)

1

1 unit

1CL

0.316

8UC6032

Coupling drivers with tolerance compensation

for size 3, 3KC0...-P

8 x 8

[8UD1900-6GA00](#)

1

1 unit

1CL

0.329

for size 4, 3KC0...-Q

10 x 10

[8UD1900-3GA00](#)

1

1 unit

1CL

0.334

for size 5, 3KC0...-R

12 x 12

[8UD1900-4GA00](#)

1

1 unit

1CL

0.240

8UD1900-6GA00

Coupling drivers without tolerance compensation

for size 3, 3KC0...-P

8 x 8

[8UD1900-6HA00](#)

1

1 unit

1CL

0.083

for size 4, 3KC0...-Q

10 x 10

[8UD1900-3HA00](#)

1

1 unit

1CL

0.090

for size 5, 3KC0...-R

12 x 12

[8UD1900-4HA00](#)

1

1 unit

1CL

0.098

8UD1900-6HA00

Shaft couplings

for size 3, 3KC0...-P

8 x 8

[8UC6022](#)

1

1 unit

1CL

0.022

for size 4, 3KC0...-Q

--

10 x 10

[8UC6023](#)

1

1 unit

1CL

0.084

for size 5, 3KC0...-R

--

12 x 12

[8UC6024](#)

1

1 unit

1CL

0.078

8UC6022 to 8UC6024

¹⁾ Non-interchangeability features

Auxiliary switches

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
							kg

Auxiliary switches for sizes 3 to 5

- Auxiliary switches with screw terminal
- Installation on operating mechanism module
- Auxiliary switches with spring-type terminal 3SB3403-... from the 3SB3 program can also be used

- 1 NO



[3SB3400-0B](#)

1

1 unit

41J

0.011

- 1 NO with gold-plated contacts



[3SB3400-0BA](#)

1

1 unit

41J

0.011

- 1 NC



[3SB3400-0C](#)

1

1 unit

41J

0.012

- 1 NC with gold-plated contacts



[3SB3400-0CA](#)

1

1 unit

41J

0.011

- 1 NO + 1 NC



[3SB3400-0A](#)

1

1 unit

41J

0.016

- 1 NO + 1 NC with gold-plated contacts



[3SB3400-0AA](#)

1

1 unit

41J

0.016

- 2 NO



[3SB3400-0D](#)

1

1 unit

41J

0.017

- 2 NO with gold-plated contacts



[3SB3400-0DA](#)

1

1 unit

41J

0.017

- 2 NC



[3SB3400-0E](#)

1

1 unit

41J

0.017

- 2 NC with gold-plated contacts



[3SB3400-0EA](#)

1

1 unit

41J

0.017



3SB3400-0B auxiliary switch



3SB3400-0A auxiliary switch

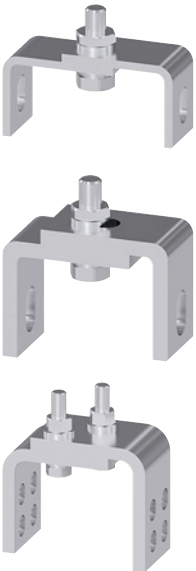
Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

Manual Transfer Switching Equipment MTSE from 200 to 1600 A

Accessories and spare parts

Bridging bars

Version	For size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Bridging bars								
- for load-side connection - single-pole - contains 1 unit - for 3-pole transfer switches 3 units, for 4-pole transfer switches 4 units are required.								
Flat terminals								
	3; 3KC0...-P		3KC9318-0		1	1 unit	1CL	0.201
	4; 3KC0...-Q		3KC9418-0		1	1 unit	1CL	0.650
	5; 3KC0...-R		3KC9518-0		1	1 unit	1CL	1.760

Other accessories

Version	For size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Phase barriers								
- for 3KC MTSE with flat terminals - for the line side one pack (6 or 8 units) is required - for the load side one pack (6 or 8 units) is required								
	For 3-pole devices (6 units)							
	3; 3KC0...-P		3KD9308-6		1	1 unit	1CL	0.169
	4; 3KC0...-Q		3KD9408-6		1	1 unit	1CL	0.203
	5; 3KC0...-R		3KD9508-6		1	1 unit	1CL	0.480
	For 4-pole devices (8 units)							
	3; 3KC0...-P		3KD9308-8		1	1 unit	1CL	0.194
	4; 3KC0...-Q		3KD9408-8		1	1 unit	1CL	0.244
	5; 3KC0...-R		3KD9508-8		1	1 unit	1CL	0.540

3KD9308-6

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

Manual Transfer Switching Equipment MTSE from 200 to 1600 A

Accessories and spare parts

2

Version	For size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Terminal covers								
• for 3KC MTSE with flat terminals • for the line side one pack (6 or 8 units) is required • for the load side one pack (6 or 8 units) is required • *additional side plates for terminal covers are required for the terminal side, where bridging bars are used (normally the load side)								
For 3-pole devices (6 units)								
Standard length								
		3; 3KC0...-P	3KD9304-6		1	1 unit	1CL	0.560
		4; 3KC0...-Q	3KD9404-6		1	1 unit	1CL	1.370
		5; 3KC0...-R	3KD9504-6		1	1 unit	1CL	1.746
Short version								
		3; 3KC0...-P	3KD9304-7		1	1 unit	1CL	0.404
		4; 3KC0...-Q	3KD9404-7		1	1 unit	1CL	0.600
For 4-pole devices (8 units)								
Standard length								
		3; 3KC0...-P	3KD9304-8		1	1 unit	1CL	0.616
		4; 3KC0...-Q	3KD9404-8		1	1 unit	1CL	1.664
		5; 3KC0...-R	3KD9504-8		1	1 unit	1CL	2.088
Short version								
		3; 3KC0...-P	3KD9304-5		1	1 unit	1CL	0.502
		4; 3KC0...-Q	3KD9404-5		1	1 unit	1CL	0.847



3KD9304-6



3KD9304-7



3KD9304-8



3KD9304-5

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A
Manual Transfer Switching Equipment MTSE from 200 to 1600 A

Accessories and spare parts

Version	For size	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Spare part for terminal cover (1 unit)								
  3KD9304-1	Standard length	5; 3KC0...-R	3KD9504-1		1	1 unit	1CL	0.434
	Short version	3; 3KC0...-P 4; 3KC0...-Q	3KD9304-1 3KD9404-1		1 1	1 unit 1 unit	1CL 1CL	0.110 0.126
Terminal covers, side plates								
 3KC9304-0	• for lateral touch protection on the load side • suitable for terminal covers in standard length • contains 2 units							
			3; 3KC0...-P	3KC9304-0	1	1 unit	1CL	0.011
			4; 3KC0...-Q	3KC9404-0	1	1 unit	1CL	0.016
			5; 3KC0...-R	3KC9504-0	1	1 unit	1CL	0.017

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

Remote Transfer Switching Equipment RTSE from 40 to 160 A

Base units

Selection and ordering data

2

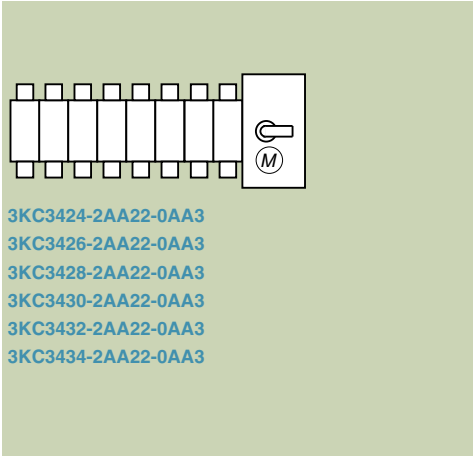
Rated uninterrupted current I_u A	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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RTSE with motorized operating mechanism,
with additional handle, operating mechanism
on the right

The transfer switches are suitable for screw and standard rail
mounting.

4-pole

Box terminals



- 3KC3424-2AA22-0AA3
- 3KC3426-2AA22-0AA3
- 3KC3428-2AA22-0AA3
- 3KC3430-2AA22-0AA3
- 3KC3432-2AA22-0AA3
- 3KC3434-2AA22-0AA3

1	1 unit	1CL	4.297
1	1 unit	1CL	4.303
1	1 unit	1CL	4.303
1	1 unit	1CL	4.309
1	1 unit	1CL	4.304
1	1 unit	1CL	4.318

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

Remote Transfer Switching Equipment RTSE from 250 to 3200 A

Base units

Selection and ordering data

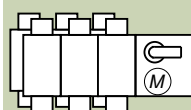
Rated uninterrupted current I_u A	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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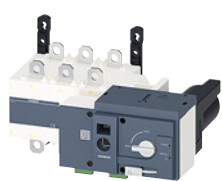
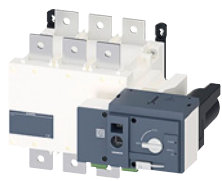
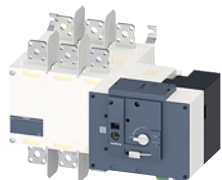
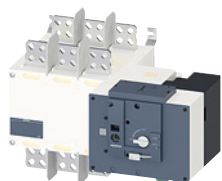
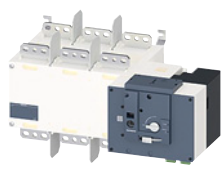
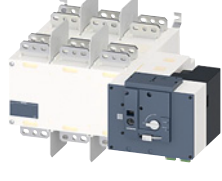
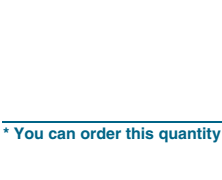
RTSE with motorized operating mechanism,
with additional handle, operating mechanism
on the right

The transfer switches are suitable for screw mounting.

3-pole

Flat terminals



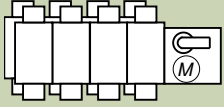
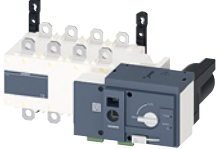
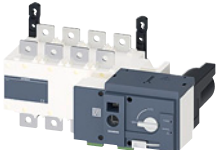
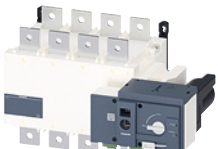
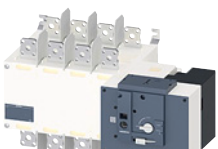
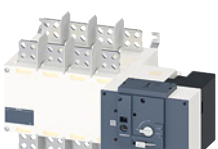
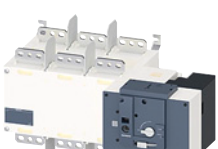
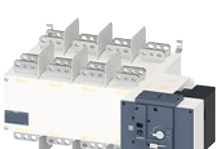
	250	3KC4338-0CA21-0AA3		1	1 unit	1CL	9.060
	400	3KC4342-0DA21-0AA3		1	1 unit	1CL	9.240
	630	3KC4346-0EA21-0AA3		1	1 unit	1CL	15.620
	800	3KC4348-0FA21-0AA3		1	1 unit	1CL	43.500
	1000	3KC4350-0FA21-0AA3		1	1 unit	1CL	44.400
	1250	3KC4352-0GA21-0AA3		1	1 unit	1CL	44.900
	1600	3KC4354-0HA21-0AA3		1	1 unit	1CL	49.100
	2000	3KC4356-0JA21-0AA3		1	1 unit	1CL	66.500
	2500	3KC4358-0JA21-0AA3		1	1 unit	1CL	66.700
	3200	3KC4360-0JA21-0AA3		1	1 unit	1CL	77.000

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

Remote Transfer Switching Equipment RTSE from 250 to 3200 A

Base units

	Rated uninterrupted current I_u A	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
4-pole								
Flat terminals								
	250		3KC4438-0CA21-0AA3		1	1 unit	1CL	9.960
	400		3KC4442-0DA21-0AA3		1	1 unit	1CL	10.200
	630		3KC4446-0EA21-0AA3		1	1 unit	1CL	17.940
	800		3KC4448-0FA21-0AA3		1	1 unit	1CL	48.000
	1000		3KC4450-0FA21-0AA3		1	1 unit	1CL	48.900
	1250		3KC4452-0GA21-0AA3		1	1 unit	1CL	49.600
	1600		3KC4454-0HA21-0AA3		1	1 unit	1CL	55.400
	2000		3KC4456-0JA21-0AA3		1	1 unit	1CL	77.600
	2500		3KC4458-0JA21-0AA3		1	1 unit	1CL	77.600
	3200		3KC4460-0JA21-0AA3		1	1 unit	1CL	91.300

Switch Disconnectors and Transfer Switching Equipment
3KC Transfer Switching Equipment up to 3200 A
Automatic Transfer Switching Equipment ATSE from 40 to 160 A

Base units

Selection and ordering data									
	Rated uninterrupted current I_u	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg	
	A								

ATSE with motorized operating mechanism and integrated controller, with additional handle, operating mechanism on the right

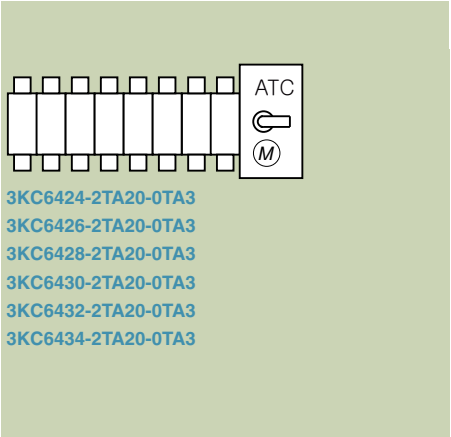
The transfer switches are suitable for screw and standard rail mounting.

4-pole

Box terminals



40
63
80
100
125
160



3KC6424-2TA20-0TA3
3KC6426-2TA20-0TA3
3KC6428-2TA20-0TA3
3KC6430-2TA20-0TA3
3KC6432-2TA20-0TA3
3KC6434-2TA20-0TA3

1	1 unit	1CL	4.262
1	1 unit	1CL	4.335
1	1 unit	1CL	4.336
1	1 unit	1CL	4.340
1	1 unit	1CL	4.356
1	1 unit	1CL	4.313

* You can order this quantity or a multiple thereof.

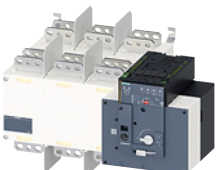
Switch Disconnectors and Transfer Switching Equipment

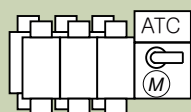
3KC Transfer Switching Equipment up to 3200 A

Automatic Transfer Switching Equipment ATSE from 250 to 3200 A

Base units

Selection and ordering data

	Rated uninterrupted current I_u A	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
ATSE with motorized operating mechanism and integrated controller with additional handle, operating mechanism on the right The transfer switches are suitable for screw mounting.								
3-pole								
Flat terminals								
	250		3KC8338-0CA22-0GA3		1	1 unit	1CL	9.920
	400		3KC8342-0DA22-0GA3		1	1 unit	1CL	10.080
	630		3KC8346-0EA22-0GA3		1	1 unit	1CL	16.440
	800		3KC8348-0FA22-0GA3		1	1 unit	1CL	41.100
	1000		3KC8350-0FA22-0GA3		1	1 unit	1CL	45.000
	1250		3KC8352-0GA22-0GA3		1	1 unit	1CL	46.000
	1600		3KC8354-0HA22-0GA3		1	1 unit	1CL	50.200
	2000		3KC8356-0JA22-0GA3		1	1 unit	1CL	67.800
	2500		3KC8358-0JA22-0GA3		1	1 unit	1CL	67.800
	3200		3KC8360-0JA22-0GA3		1	1 unit	1CL	78.100

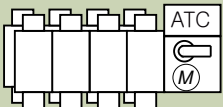
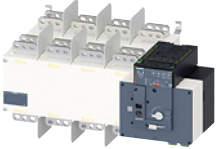


Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

Automatic Transfer Switching Equipment ATSE from 250 to 3200 A

Base units

	Rated uninterrupted current I_u A	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
4-pole								
Flat terminals								
	250		 3KC8438-0CA22-0GA3		1	1 unit	1CL	10.800
	400		3KC8442-0DA22-0GA3		1	1 unit	1CL	10.960
	630		3KC8446-0EA22-0GA3		1	1 unit	1CL	18.820
	800 1000		3KC8448-0FA22-0GA3 3KC8450-0FA22-0GA3		1 1	1 unit 1 unit	1CL 1CL	49.000 49.000
	1250		3KC8452-0GA22-0GA3		1	1 unit	1CL	50.200
	1600		3KC8454-0HA22-0GA3		1	1 unit	1CL	56.000
	2000		3KC8456-0JA22-0GA3		1	1 unit	1CL	78.700
	2500		3KC8458-0JA22-0GA3		1	1 unit	1CL	78.700
	3200		3KC8460-0JA22-0GA3		1	1 unit	1CL	91.500

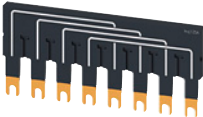
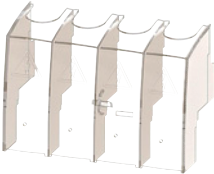
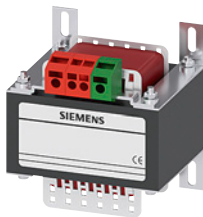
Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

3KC Transfer Switching Equipment RTSE and ATSE from 40 to 160 A

Accessories and spare parts

Selection and ordering data

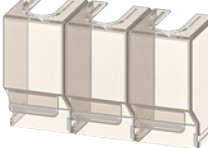
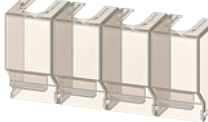
	Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Bridging bars								
	- for 40 ... 125 A - for 160 A		3KC9618-2 3KC9618-3		1 1	1 unit 1 unit	1CL 1CL	0.359 0.461
Terminal covers								
	for 40 ... 160 A, contains 2 units, 1 unit covers 4 poles		3KC9604-2		1	1 unit	1CL	0.079
Auxiliary conductor terminals								
	for 40 ... 160 A, contains 2 units		3KC9622-2		1	1 unit	1CL	0.024
Auxiliary switches								
	Auxiliary switches for 40 ... 160 A, for 250 V AC/5 A or for 24 V DC/2 A 1 changeover contact for each position 0, I, II Max. 2 auxiliary switches can be mounted per transfer switching equipment - with separate contacts - with linked common contacts		3KC9603-1 3KC9603-2		1 1	1 unit 1 unit	1CL 1CL	0.063 0.064
Sealing units								
	Sealable cover for ATSE 40 ... 160 A (incl. bolt set and sealing ribbons)		3KC9721-1		1	1 unit	1CL	0.029
3KC9721-1	Sealing ribbon - also as spare part for sealable cover - for 40 ... 3200 A, 10 units		3KC9621-2		1	1 unit	1CL	0.015
Autotransformers								
	- for 40 ... 160 A 400 V AC / 230 V; 400 VA		3KC9624-1		1	1 unit	1CL	3.234
Dual power supply								
	- for 40 ... 3200 A 240 V AC, 3 A		3KC9625-1		1	1 unit	1CL	0.242

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A
3KC Transfer Switching Equipment RTSE and ATSE from 250 to 3200 A

Accessories and spare parts

Selection and ordering data

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Bridging bars							
 • for 250 A		3KC9818-2		1	1 unit	1CL	0.172
 • for 400 A		3KC9818-3		1	1 unit	1CL	0.360
 • for 630 A		3KC9818-4		1	1 unit	1CL	0.632
 • for 800 ... 1000 A		3KC9818-5		1	1 unit	1CL	0.847
 • for 1250 A		3KC9818-6		1	1 unit	1CL	1.460
 • for 1600 A		3KC9818-7		1	1 unit	1CL	2.779
Terminal covers							
 • for 250 ... 400 A, 3 units, 1 unit covers one pole		3KC9804-1		1	1 unit	1CL	0.116
• for 630 A, 3 units, 1 unit covers one pole		3KC9804-3		1	1 unit	1CL	0.283
 • for 250 ... 400 A, 4 units, 1 unit covers one pole		3KC9804-2		1	1 unit	1CL	0.155
• for 630 A, 4 units, 1 unit covers one pole		3KC9804-4		1	1 unit	1CL	0.308

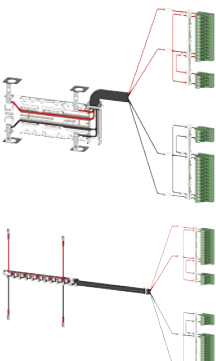
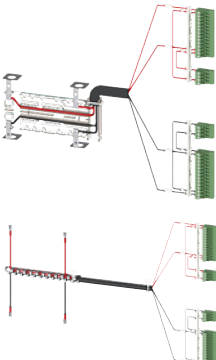
Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

3KC Transfer Switching Equipment RTSE and ATSE from 250 to 3200 A

Accessories and spare parts

2

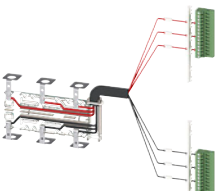
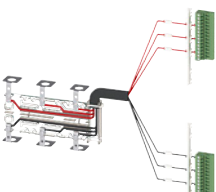
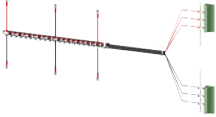
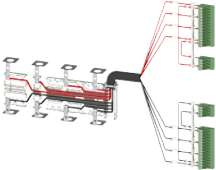
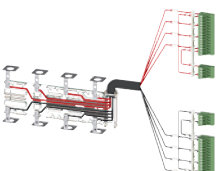
Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Copper bar connection kit							
 - for 2000 ... 2500 A, C-bracket, part A - for 2000 ... 3200 A, bolt set, part B, 45 mm - for 2000 ... 3200 A, bolt set, part B, 35 mm, short length - for 2000 ... 3200 A, T-bracket, part C - for 2000 ... 3200 A, L-bracket, part D, contains 2 units - for 2000 ... 3200 A, bridging bar, part E		3KC9811-0		1	1 unit	1CL	0.871
		3KC9811-1		1	1 unit	1CL	0.353
		3KC9811-2		1	1 unit	1CL	0.309
		3KC9811-3		1	1 unit	1CL	2.520
		3KC9811-4		1	1 unit	1CL	0.940
		3KC9818-8		1	1 unit	1CL	3.859
Power supply and voltage sensing cables for ATSE							
 For 2-pole applications, infeed from below, with power supply - for 250 A, 3-pole switch - for 400 A, 3-pole switch - for 630 A, 3-pole switch - for 800 ... 1000 A, 3-pole switch - for 1250 A, 3-pole switch - for 1600 A, 3-pole switch - for 2000 ... 3200 A, 3-pole switch		3KC9833-1		1	1 unit	1CL	0.200
		3KC9833-2		1	1 unit	1CL	0.200
		3KC9833-3		1	1 unit	1CL	0.200
		3KC9833-4		1	1 unit	1CL	0.200
		3KC9833-5		1	1 unit	1CL	0.200
		3KC9833-6		1	1 unit	1CL	0.200
		3KC9833-7		1	1 unit	1CL	0.200
 For 2-pole applications, infeed from above, with power supply - for 250 A, 3-pole switch - for 400 A, 3-pole switch - for 630 A, 3-pole switch - for 800 ... 1000 A, 3-pole switch - for 1250 A, 3-pole switch - for 1600 A, 3-pole switch - for 2000 ... 3200 A, 3-pole switch		3KC9834-1		1	1 unit	1CL	0.200
		3KC9834-2		1	1 unit	1CL	0.200
		3KC9834-3		1	1 unit	1CL	0.200
		3KC9834-4		1	1 unit	1CL	0.200
		3KC9834-5		1	1 unit	1CL	0.200
		3KC9834-6		1	1 unit	1CL	0.200
		3KC9834-7		1	1 unit	1CL	0.200

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

3KC Transfer Switching Equipment RTSE and ATSE from 250 to 3200 A

Accessories and spare parts

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
For 3-pole applications, infeed from below¹⁾							
		3KC9822-1		1	1 unit	1CL	0.258
		3KC9822-2		1	1 unit	1CL	0.276
		3KC9822-3		1	1 unit	1CL	0.332
		3KC9822-4		1	1 unit	1CL	0.230
		3KC9822-5		1	1 unit	1CL	0.166
		3KC9822-6		1	1 unit	1CL	0.178
		3KC9822-7		1	1 unit	1CL	0.160
For 3-pole applications, infeed from above¹⁾							
		3KC9832-1		1	1 unit	1CL	0.267
		3KC9832-2		1	1 unit	1CL	0.275
		3KC9832-3		1	1 unit	1CL	0.232
		3KC9832-4		1	1 unit	1CL	0.166
		3KC9832-5		1	1 unit	1CL	0.166
		3KC9832-6		1	1 unit	1CL	0.177
		3KC9832-7		1	1 unit	1CL	0.160
For 4-pole applications, infeed from below, with power supply							
		3KC9830-1		1	1 unit	1CL	0.322
		3KC9830-2		1	1 unit	1CL	0.345
		3KC9830-3		1	1 unit	1CL	0.417
		3KC9830-4		1	1 unit	1CL	0.278
		3KC9830-5		1	1 unit	1CL	0.218
		3KC9830-6		1	1 unit	1CL	0.238
		3KC9830-7		1	1 unit	1CL	0.250
For 4-pole applications, infeed from above, with power supply							
		3KC9831-1		1	1 unit	1CL	0.222
		3KC9831-2		1	1 unit	1CL	0.344
		3KC9831-3		1	1 unit	1CL	0.418
		3KC9831-4		1	1 unit	1CL	0.218
		3KC9831-5		1	1 unit	1CL	0.217
		3KC9831-6		1	1 unit	1CL	0.302
		3KC9831-7		1	1 unit	1CL	0.200

¹⁾ Power supply not available for 3-pole cables; see manual for installation with transformer and/or with DPS

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

3KC Transfer Switching Equipment RTSE and ATSE from 250 to 3200 A

Accessories and spare parts

2

Version		DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Auxiliary switches								
	One auxiliary switch contains 2 leading changeover contacts, one changeover contact for position I and one changeover contact for position II (incl. bolt set) Max. two auxiliary switches can be installed per transfer switching equipment. 250 V AC/12 A (AC-13) or for 24 V DC/14 A (DC-13) • for 250 ... 630 A		3KC9803-1		1	1 unit	1CL	0.145
	• for 800 ... 1600 A		3KC9803-2		1	1 unit	1CL	0.090
	• for 2000 ... 3200 A: included in the base unit		--					
Phase barriers								
	• for 250 ... 400 A, contains 2 units (for 3P)		3KC9808-1		1	1 unit	1CL	0.020
	• for 250 ... 400 A, contains 3 units (for 4P)		3KC9808-6		1	1 unit	1CL	0.029
	• for 630 A, contains 2 units (for 3P)		3KC9808-2		1	1 unit	1CL	0.039
	• for 630 A, contains 3 units (for 4P)		3KC9808-7		1	1 unit	1CL	0.057
Mounting accessories								
	Cover frame • for ATSE 250 ... 630 A		3KC9820-4		1	1 unit	1CL	0.078
	• for ATSE 800 ... 3200 A		3KC9820-5		1	1 unit	1CL	0.078
	Mounting spacers • for 250 ... 630 A, contains 2 units		3KC9820-3		1	1 unit	1CL	0.101
Sealing units								
	Sealable cover • for controller (electronic module) ATSE 250 ... 3200 A (incl. bolt set and sealing ribbons)		3KC9821-0		1	1 unit	1CL	0.057
	Sealing ribbon • also as spare part for sealable cover • for 40 ... 3200 A, 10 units		3KC9621-2		1	1 unit	1CL	0.015

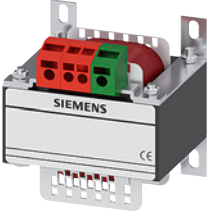
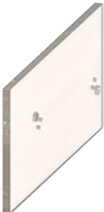
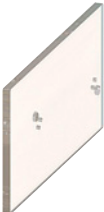
3KC9821-0

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

3KC Transfer Switching Equipment RTSE and ATSE from 250 to 3200 A

Accessories and spare parts

Version		DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Autotransformers								
	- for 250 ... 3200 A, 3-pole 400 V/230 V AC, 200 VA		3KC9824-1		1	1 unit	1CL	2.158
Dual power supply								
	- for 40 ... 3200 A 240 V AC, 3 A		3KC9625-1		1	1 unit	1CL	0.242
External display								
	Display for ATSE 250 ... 3200 A		3KC9823-0		1	1 unit	1CL	0.178
	Connection cable for external display, 250 ... 3200 A, RJ45 cable, 3 m		3KC9823-2		1	1 unit	1CL	0.066
	Sealable cover for controller (electronic module) ATSE 250 ... 3200 A		3KC9821-0		1	1 unit	1CL	0.057

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

3KC Transfer Switching Equipment RTSE and ATSE from 250 to 3200 A

Accessories and spare parts

2

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Terminal plates							
		• for 250 ... 400 A, 3-pole • for 250 ... 400 A, 4-pole	3KC9827-1 3KC9828-1	1	1 unit	1CL	0.143
				1	1 unit	1CL	0.188
		• for 630 A, 3-pole • for 630 A, 4-pole	3KC9827-2 3KC9828-2	1	1 unit	1CL	0.286
				1	1 unit	1CL	0.357
		• for 800 ... 1250 A, 3-pole • for 800 ... 1250 A, 4-pole	3KC9827-3 3KC9828-3	1	1 unit	1CL	0.242
				1	1 unit	1CL	0.311
		• for 1600 A, 3-pole • for 1600 A, 4-pole	3KC9827-4 3KC9828-4	1	1 unit	1CL	0.533
				1	1 unit	1CL	0.640
		• for 2000 ... 3200 A, 3-pole • for 2000 ... 3200 A, 4-pole	3KC9827-5 3KC9828-5	1	1 unit	1CL	0.610
				1	1 unit	1CL	0.670
							

Switch Disconnectors and Transfer Switching Equipment

3KC Transfer Switching Equipment up to 3200 A

3KC Transfer Switching Equipment RTSE and ATSE from 250 to 3200 A

Accessories and spare parts

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Spare parts							
Motorized operating mechanisms							
		• for 250 ... 400 A	3KC9826-1	1	1 unit	1CL	3.650
		• for 630 A	3KC9826-2	1	1 unit	1CL	3.650
		• for 800 ... 1250 A	3KC9826-3	1	1 unit	1CL	8.836
		• for 1600 A	3KC9826-4	1	1 unit	1CL	8.800
		• for 2000 ... 3200 A	3KC9826-5	1	1 unit	1CL	8.800
Controller (electronic module)							
		• for ATSE 250 ... 3200 A	3KC9826-0	1	1 unit	1CL	1.549

Switch Disconnectors and Transfer Switching Equipment

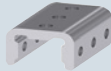
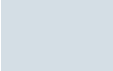
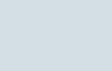
3KC Transfer Switching Equipment up to 3200 A

3KC Transfer Switching Equipment RTSE and ATSE from 250 to 3200 A

Accessories and spare parts

More information

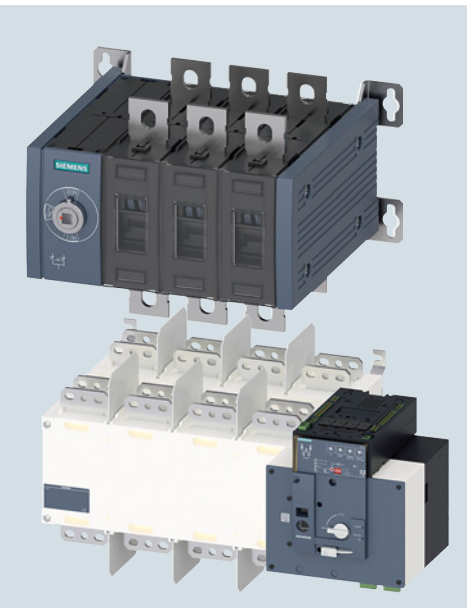
2

								
Copper bar connection kit for transfer switching equipment from 2000 to 3200 A			3KC9811-0	3KC9811-1	3KC9811-2	3KC9811-3	3KC9811-4	3KC9818-8
Line side	Direct connection 2 x 100 x 10 mm; 4 x 100 x 5 mm	3	-	-	6 x	-	-	-
		4	-	-	8 x	-	-	-
	Direct connection, rotated 90° 2 x 100 x 10 mm; 4 x 100 x 5 mm	3	6 x	-	-	6 x	6 x	-
		4	8 x	-	-	8 x	8 x	-
	Direct connection 3 x 100 x 10 mm (necessary for 3200 A)	3	Included ¹⁾	3 x	3 x	-	-	-
		4	Included ¹⁾	4 x	4 x	-	-	-
	Direct connection, rotated 90° 3 x 100 x 10 mm (necessary for 3200 A) ²⁾	3	Included ¹⁾	-	-	6 x	6 x	-
		4	Included ¹⁾	-	-	8 x	8 x	-
Load side	Direct connection, rotated 90° 2 x 100 x 10 mm; 4 x 100 x 5 mm	3	6 x	-	-	6 x	6 x	-
		4	8 x	-	-	8 x	8 x	-
	Direct connection, rotated 90° with load bridge 2 x 100 x 10 mm; 4 x 100 x 5 mm	3	6 x	6 x	-	-	-	3 x
		4	8 x	8 x	-	-	-	4 x
	Direct connection, rotated 90° 3 x 100 x 10 mm (necessary for 3200 A)	3	Included ¹⁾	-	-	6 x	6 x	-
		4	Included ¹⁾	-	-	8 x	8 x	-
	Direct connection, rotated 90° with load bridge 3 x 100 x 10 mm (necessary for 3200 A)	3	Included ¹⁾	6 x	-	-	-	3 x
		4	Included ¹⁾	8 x	-	-	-	4 x

¹⁾ 3KC9811-0 is included for all 3KC transfer switches for 3200 A.
For connection of 3KC transfer switches for 2000 ... 2500 A to
3 x 100 x 10 mm busbars the following must be ordered:
3KC9811-0, 6 units for 3-pole switches
3KC9811-0, 8 units for 4-pole switches

²⁾ Vertical connection is approved up to 2900 A; horizontal connection is
approved up to 3200 A.

Appendix



3/2	Catalog notes
3/3	Ordering notes
3/5	Further documentation
3/9	Quality management
3/10	Standards and approvals
3/12	Siemens contacts
3/13	Service & Support
3/14	Comprehensive support from A to Z
3/15	Software licenses
3/17	Article No. index incl. export markings
3/20	Conditions of sale and delivery

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

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

Configurators can be found under 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

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 1-day transport within Germany.

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

We regard the DIN 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 order number (Instr.-Order-No.) is also specified. They can be obtained from your local Siemens representative (you will find a list at 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

Delivery time class (DT)

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

Price units (PU)

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

PS/P. unit (packaging size/packaging unit)

The packaging size/packaging unit defines the number, e.g. of units, sets or meters, contained within outer packaging:

- The **first digit** in the PS/P. unit column (packaging size/packaging unit) indicates the minimum order quantity. You can only order this specified quantity or a multiple thereof.
- The **second digit** in the PS/P. unit column (packaging size/packaging unit) specifies the number of units contained within the outer packaging (e.g. in a carton). You must order this quantity or a multiple thereof if you want the items to be delivered in discrete packaging quantities.

Examples:

PS/P. unit	Meaning
1 unit	You can order one item or a multiple thereof.
5 units	Five units are packed in a bag, for example. Because the bags cannot be opened, you can only order a multiple of the quantity contained in the bag: 5, 10, 15, 20 etc.
5/100 units	One carton contains (for example) 20 bags, each containing 5 units, i.e. a total of 100 units. If only cartons are available for delivery, you need to order a multiple of the carton quantity: 100, 200, 300, etc. Ordering a quantity of 220 units would result in the following delivery: two cartons, each containing 100 units (= 200 units) and 4 bags, each containing 5 units (= 20 units).
1 set	A set comprises a defined number of different parts.

Price group (PG)

Each product is allocated to a price group.

Weight

The defined weight is the net weight in kg and refers to the price unit (PU).

Examples

DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS/ P. unit	PG	Weight per PU approx. kg	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS/ P. unit	PG
►	3NW7013		1	1/12 units	1BM	0.076		3VA1196-3ED26-0AA0		1	1 unit	1CB

DT: Preferred type

PU: One unit (on which price is based)

PS/P. unit: 1 = minimum order quantity / 12 = quantity per carton

PG: 1BM

Weight per PU: 76 g, always given in kg

PU: One unit (on which price is based)

PS/P. unit: 1 = minimum order quantity

PG: 1CB

Note:

The article numbers shown here are examples only. They are not necessarily included in this catalog, nor is it essential that their specifications regarding selection and ordering data be up to date. When ordering, always use the selection and ordering data.

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



We regard product support to be just as important as the products and systems themselves.

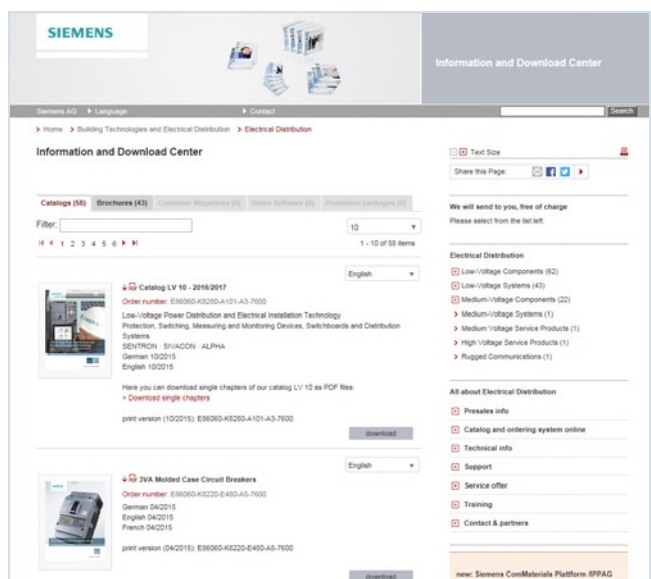
Visit our website for a comprehensive offering of support for low-voltage power distribution and electrical installation products, such as:

- Overview of the entire product portfolio
- Keeping up to date via newsletters, podcasts, blogs and Twitter
- Access to interesting videos on YouTube
- Contact with partners around the world
- Operating instructions and manuals for direct download

and much more - all conveniently and easily accessible.

www.siemens.com/lowvoltage

Information and Download Center



You will find regularly updated informational material (such as catalogs and brochures) for low-voltage power distribution and electrical installations on the Internet at

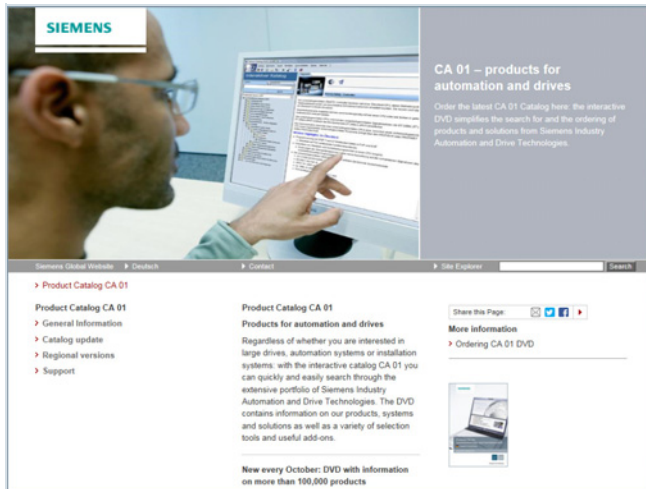
www.siemens.com/lowvoltage/infomaterial

Here you can order your copy of the available documentation or download it in common file formats (PDF, ZIP).

Appendix

Further documentation

Product selection using the interactive catalog CA 01



Detailed information together with user-friendly interactive functions:

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

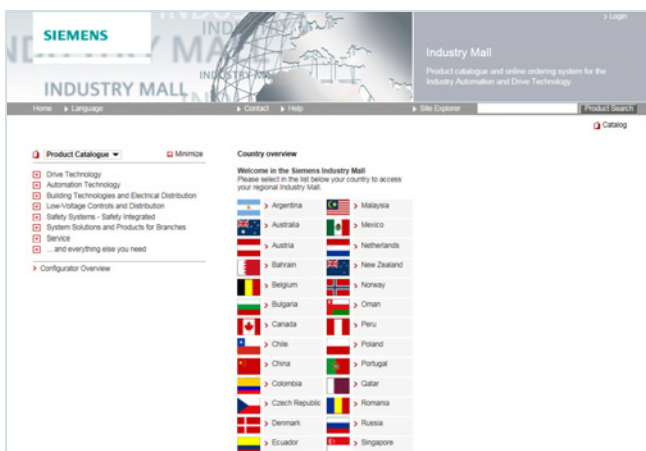
After selecting the product of your choice you can order at the press of a button, by fax or by online link.

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

www.siemens.com/automation/ca01

or on DVD.

Industry Mall



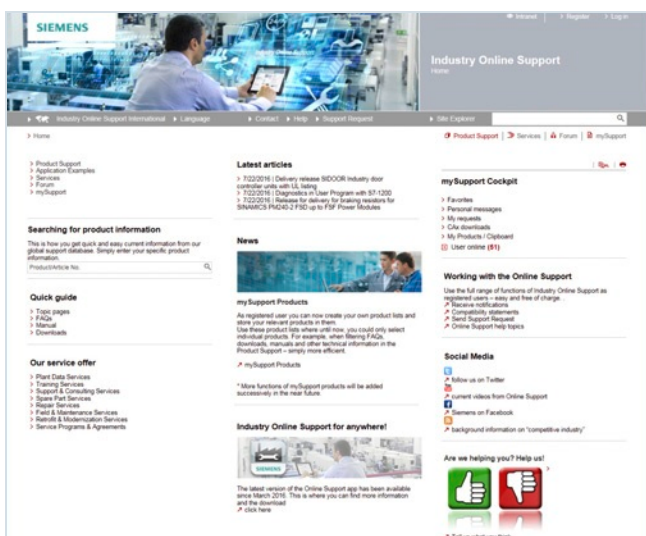
The Industry Mall – for online information, product selection and ordering

- 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

Industry Online Support



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

Industry Online Support App

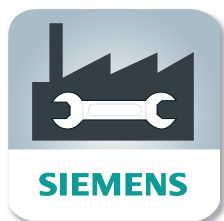


Main functions at a glance

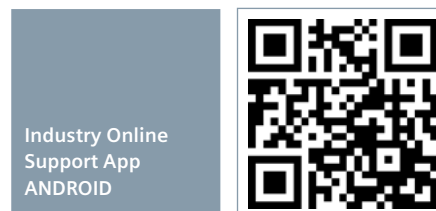
- Scanning of product codes (EAN/QR and data matrix codes) with direct display of all technical information on the product, including graphic data (CAx data).
- Sending of product information or entries by email, so that the information can immediately be processed at the workplace.
- Submission of queries to Technical Support (Support Requests). With photo function for transmitting detailed information.
- Contents and interfaces available in six 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



Android:



Apple iOS:



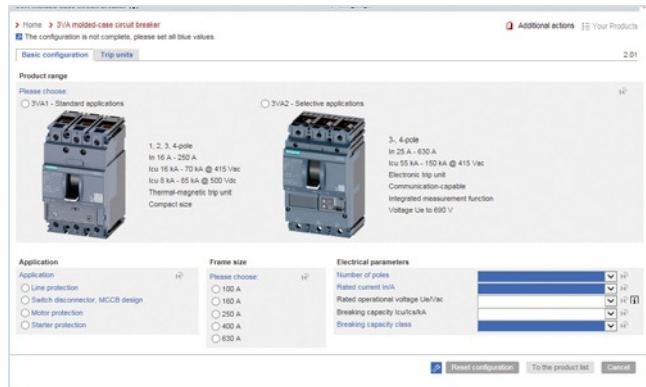
Windows:



Appendix

Further documentation

Product configurator



Finding the right product faster

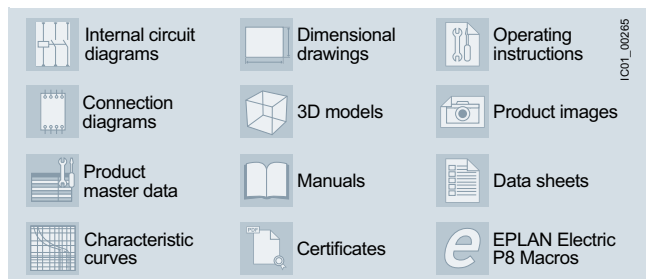
- Complete selection of products and systems based on technical characteristics or application requirements
- Simple, intuitive operation
- Option to save the configuration and order lists in a file format of your choice (txt, pdf, xls, csv)
- Direct transfer of the order list into the shopping cart 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

CAX Download Manager



You can find the CAX Download Manager on the Internet at

www.siemens.com/lowvoltage/cax

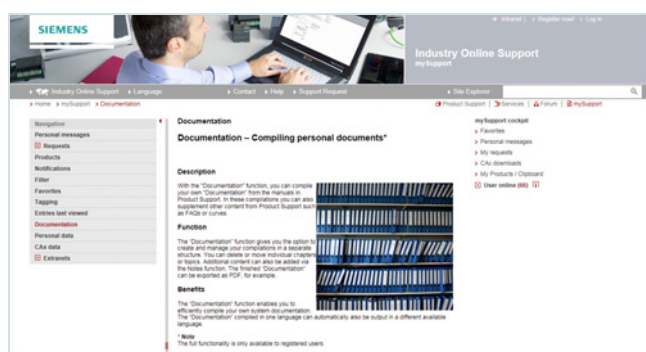
Time savings of up to 80% with universal product data for your CAE and CAD systems

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 free of charge in just four selection steps. The data is updated on a daily basis. All your selected files are packed into a zip file which you can download for further use.

Siemens makes up to 12 file types available around the clock to support your mechanical (CAD) and electrical (CAE) planning processes.

- 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

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

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

The screenshot shows the Siemens Industry Online Support website. The top navigation bar includes links for Intranet, Register, and Log in. The main header area features the Siemens logo and the text 'Industry Online Support Product Support'. Below this, there are navigation links for Industry Online Support International, Language, Contact, Help, Support Request, Site Explorer, and a search bar. The main content area is titled 'Filter criteria for entries' and includes a search bar, a dropdown for 'Product tree' (set to 'Electrical Distribution (3964)'), and a search term input field. Below the search bar, there are filters for 'Product' (All), 'Entry type' (Certificate (3964)), 'Date' (From/To), 'Certificate type' (All), 'Certificate' (All), 'Approval office' (All), and 'Country' (All). A 'Clear all filters' button is also present. The main list of entries shows 3964 entries, with a table listing details such as 'Certificate type', 'Certificate', 'Approval office', and 'Country'. A sidebar on the right titled 'mySupport Cockpit' contains links to 'Favorites', 'Personal messages', 'My requests', 'CAx downloads', 'My Products / Clipboard', and 'User online (78)'. Below this, there is a section titled 'All information on Electrical Distribution' with links to '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 the same Siemens Industry Online Support website, but with different filter criteria. The 'Product tree' is set to 'Electrical Distribution (323)', and the 'Entry type' is set to 'VDE (323)'. The main list of entries now shows 323 entries, with a table listing details such as 'Certificate type', 'Certificate', 'Approval office', and 'Country'. The sidebar on the right remains the same, titled 'mySupport Cockpit'.

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

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

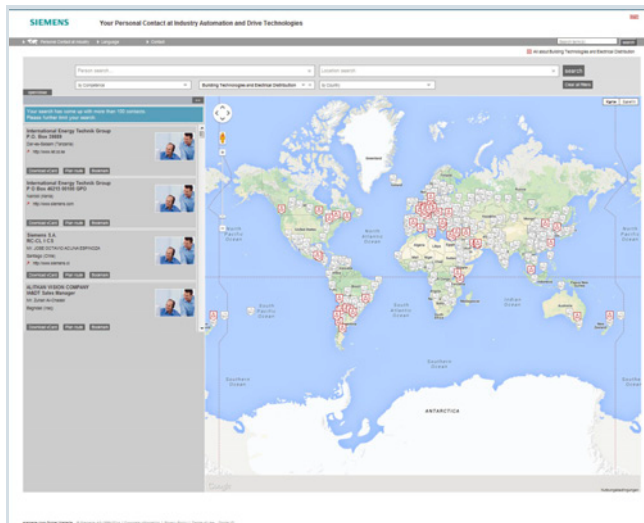
If you have any questions concerning UL/CSA approvals, please contact Technical Support:

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

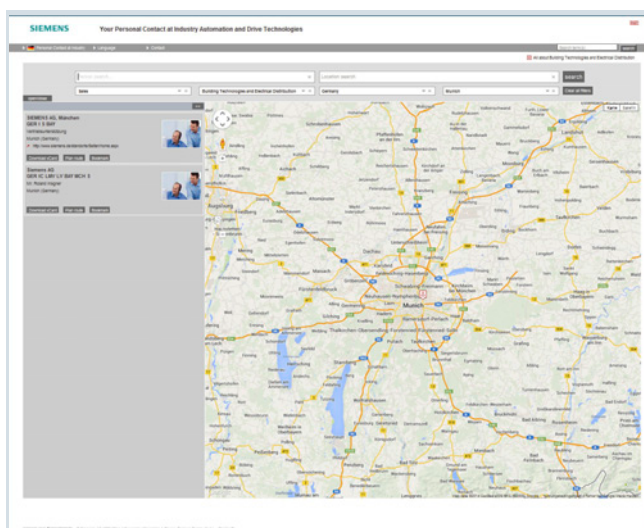
www.siemens.com/lowvoltage/contact

You start by selecting a

- Required competence
- Product or sector
- Country
- City

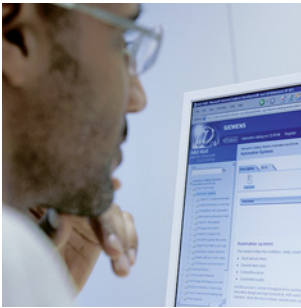
or by performing a

- search for a specific location or
- individual.



Unrivalled complete range of services over the entire life cycle

Industry Online Support



Industry Online Support is an extensive information system for all questions relating to products, systems and solutions developed for industry by Siemens.

You will find further information at
www.siemens.com/online-support
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/lowvoltage/contact

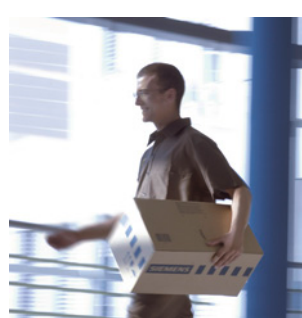
Technical Support



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

You will find further information at
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.com/lowvoltage/contact

Training



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

You will find further information at
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

Appendix

Comprehensive support from A to Z

Overview

Product information

Website	Fast and targeted information on low-voltage power distribution and electrical installation technology: www.siemens.com/lowvoltage
Newsletter	Always up to date about our trend-setting products and systems: www.siemens.com/lowvoltage/newsletter

Product information/product & system selection

Information and Download Center	Current information (e.g. catalogs and brochures): www.siemens.com/lowvoltage/infomaterial
Industry Mall	Comprehensive information and order platform for the Siemens Industry Basket: www.siemens.com/lowvoltage/mall
CA 01	Every product for automation and drive technology, interactive catalog, DVD

Product and system engineering

SIMARIS Planning tools	Support in planning and configuring electrical power distribution: www.siemens.com/simaris
SIMARIS configuration software	Support throughout the entire configuration cycle from the configuration of ALPHA distribution boards and SIVACON S4 power distribution boards, cost calculations and quotation preparation, right through to the creation of plant documentation: www.siemens.com/simarisconfig
Software for power loss calculations - SIMARIS therm	Support in performing power loss calculations for the dimensioning of control cabinets: www.siemens.com/simaristherm

Product documentation

Siemens Industry Online Support	Comprehensive technical information - from planning to configuration and operation: www.siemens.com/online-support www.siemens.com/lowvoltage/product-support
Product configurator	Complete selection of products and systems based on technical characteristics or application requirements: www.siemens.com/lowvoltage/configurators
CAX Download Manager	Collation of CAX data types for standard CAE and CAD systems: www.siemens.com/lowvoltage/cax
My Documentation Manager	Compilation of project-specific documentation: www.siemens.com/lowvoltage/mdm
Image database	Collection of product photographs and graphics, such as dimensional drawings and internal circuit diagrams: www.siemens.com/lowvoltage/picturedb

Product training

SITRAIN Portal	Comprehensive training program for our products, systems and engineering tools: www.siemens.com/lowvoltage/training
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Product hotline

Technical Support	Support for all technical queries about our products: www.siemens.com/lowvoltage/contact www.siemens.com/lowvoltage/technical-support
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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

Übersicht

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3KC0316-2ME00-0AA0	2/3	N	N
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3KC0326-2ME00-0AA0	2/3	N	N
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3KC0330-2NE00-0AA0	2/3	N	N
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3KC0334-2NE00-0AA0	2/3	N	N
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3KC4350-0FA21-0AA3	2/17	EAR99	N
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8UD1900-4GA00	2/12	EAR99	N
8UD1900-4HA00	2/12	EAR99	N
8UD1900-6GA00	2/12	N	N

-keine Metallzuschläge

Unter www.siemens.de/industrymall sind die gültigen Exportkennzeichen/Metallzuschläge eines Erzeugnisses tagesaktuell einsehbar.

Appendix

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"¹⁾ 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"¹⁾ and
- the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾ 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"¹⁾ 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"¹⁾ and
- the "General Conditions for Supplies of Siemens Industry for Customers with a Seat or Registered Office outside of Germany"¹⁾ 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 on the page entitled "Metal surcharges".

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.

¹⁾ 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

Further information can be obtained from our branch offices listed at www.siemens.com/lowvoltage/contact

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<i>Note:</i>			
<i>Further catalogs on the SINAMICS drive systems and on the SIMOTICS motors with SINUMERIK and SIMOTION can be found under Motion Control</i>			
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Siemens AG
Energy Management
Low Voltage & Products
Postfach 10 09 53
93009 Regensburg
Germany

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