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# Low-Voltage Power Distribution and Electrical Installation Technology

Miniature Circuit Breakers

Catalog  
Extract  
LV 10

Edition  
04/2019

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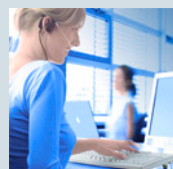


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# Low-Voltage Power Distribution and Electrical Installation Technology

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

SENTRON · SIVACON · ALPHA



### Catalog LV 10 · 04/2019

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Supersedes:  
Catalog LV 10 · 10/2018

Refer to the Industry Mall for current prices:  
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The products in this catalog can also be found in the Interactive Catalog CA 01:  
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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.

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### Switchboards and Distribution Systems

## Opening Information

### 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 a € 20 supplement to cover our order processing and invoicing costs.

#### Explanations of Selection and ordering data

##### Standard delivery time (SD)

- ▶ Preferred type Preferred types are device types that can be delivered immediately ex works, i.e. they are dispatched within 24 hours.

##### Price units (PU)

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

##### Packaging size (PS)

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

##### Price group (PG)

Each product is allocated to a price group.

##### Example

5TT3400  
SD: Preferred type  
PG: 13C  
Ordering quantity 1 unit or a multiple thereof

8US1923-5CA02  
PG: 14O  
Ordering quantity 10 units or a multiple thereof

8WH9000-1GA00  
PG: 12X  
Ordering quantity 50 units or a multiple thereof

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

##### Note:

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

##### Metal surcharges/export markings

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

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

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

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



## Miniature Circuit Breakers



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	<b>Additional components</b>
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3/55	5ST standard busbars
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3/69	5ST2 distribution blocks
3/73	SIKclip wiring system
3/75	<b>5SJ4... - .HG miniature circuit breakers acc. to UL 489 and IEC, and accessories</b>
3/86	<b>SHU 5SP3 main miniature circuit breakers</b>

**For further technical product information:**
[Configuration Manual](#)
[Miniature Circuit Breakers](#)

Article No.: 3ZW1012-5SL61-0AC1

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- Technical data

# Miniature Circuit Breakers

## Introduction

### Overview

Devices	Page	Application	Standards
 <p><b>5SL miniature circuit breakers</b></p>	3/3	For all applications from 0.3 A to 63 A with tripping characteristics B, C and D with a rated breaking capacity of 4500 A, 6000 A and 10000 A acc. to EN 60898-1.	EN 60898-1
 <p><b>5SY and 5SP miniature circuit breakers</b></p>	3/13	For all applications from 0.3 A to 125 A with a rated breaking capacity of 10000 A and 15000 A acc. to EN 60898-1. Applications for universal current from 0.3 A to 63 A, version 25 kA, acc. to EN 60947-2.	EN 60898-1/-2 EN 60947-2 UL 1077 CSA 22.2 GB 10963.1/2
 <p><b>5SJ6...-KS miniature circuit breakers, with plug-in terminals</b></p>	3/30	For socket outlet and lighting circuits in all building installations.  The plug-in terminals offer easy front connection for manual insertion of conductors, which considerably reduces mounting times.	EN 60898-1
 <p><b>5S..0 miniature circuit breakers, 1+N in 1 MW</b></p>	3/33	For socket outlet and lighting circuits in all building installations where a switchable neutral conductor is required.  The miniature circuit breaker 1+N saves space in the distribution board.	EN 60898-1
 <p><b>5SY17 device protection switches, 1+HS in 1 MW <span style="background-color: orange; color: white; padding: 2px;">NEW</span></b></p>	3/36	For optimum protection in AC and DC control circuits in industrial applications and plant engineering. Here they protect solenoid valves, servo motors and PLC inputs and outputs, for example.	EN 60934
 <p><b>Additional components</b></p>	3/42	Auxiliary switches, fault signal contacts, shunt trips, undervoltage releases for higher system availability, RC units for personal safety and remote controlled mechanisms for remote switching.	
 <p><b>Busbars</b></p>	3/52	Busbars in 10 mm <sup>2</sup> and 16 mm <sup>2</sup> save space in the distribution board and time during mounting. Busbars in 18 mm <sup>2</sup> and 25 mm <sup>2</sup> acc. to UL 508 and CSA.	UL 508
 <p><b>Compact busbars <span style="background-color: orange; color: white; padding: 2px;">NEW</span></b></p>	3/38		
 <p><b>5SJ4...-HG miniature circuit breakers acc. to UL 489 and IEC, and accessories</b></p>	3/75	Miniature circuit breakers can be used as "branch circuit protection" and are approved for the connection type "same polarity" and "opposite polarity" in the characteristics B, C and D acc. to UL 489, from 0.3 A to 63 A.	UL 489
 <p><b>SHU 5SP3 main miniature circuit breakers</b></p>	3/86	Voltage-independent selective main miniature circuit breakers (SHU) in the precounter area support downstream miniature circuit breakers by providing better current limitation.	DIN VDE 0641-21

### Overview

The 5SL miniature circuit breakers are intended for use up to 6 kA/10 kA. These devices have system features that are characteristic of all Siemens miniature circuit breakers.

They are also suitable for the quick and easy mounting of additional components, such as auxiliary switches and fault signal contacts.

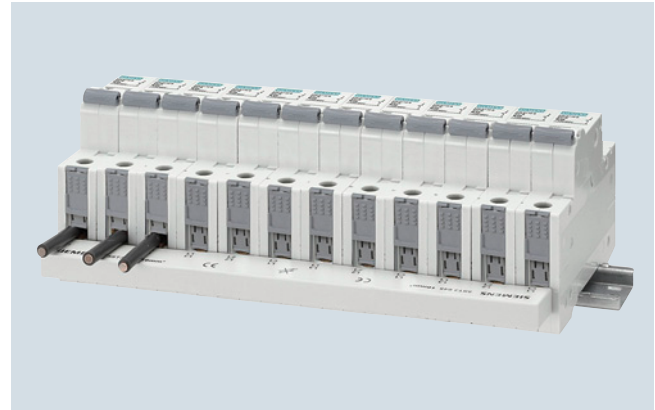
The 5SL4 miniature circuit breakers can also be combined with shunt trips, undervoltage releases and arc fault detection devices.

To facilitate cable entry, the devices are equipped with rectangular terminals for the accommodation of pin busbars with cables up to 35 mm<sup>2</sup>. The rated current range is between 0.3 A and 63 A. The 5SL miniature circuit breakers are available in characteristics B, C and D.

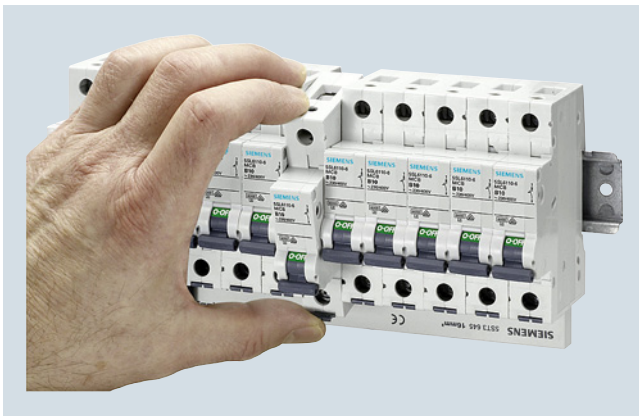
### Benefits



- Effective touch protection when grasping and manually operating the latching slide with latch-down option.



- Easy-to-mount busbar assembly.
- Consistent bus mounting concept throughout the Siemens miniature circuit breaker range.



- Individual devices can be removed from the bus-mounted assembly without the use of tools.



- The 5SL4 miniature circuit breakers are suitable for the quick and easy mounting of arc fault detection devices, auxiliary switches, fault signal contacts, shunt trips and undervoltage releases.

# Miniature Circuit Breakers

## 5SL Miniature Circuit Breakers

### Introduction

### Technical specifications

	5SL3	5SL6	5SL4
<b>Standards</b>	EN 60898-1		
<b>Approvals</b>	see chapter "Appendix"		
<b>Tripping characteristic</b>	B, C		B, C, D
<b>Rated voltage <math>U_n</math></b>	V AC	230/400	
<b>Operational voltage</b>			
• Min.	V AC/DC per pole	24	
• Max.	V AC V DC/pole	250/440 60 <sup>1)</sup>	60 <sup>1)2)</sup>
<b>Rated breaking capacity</b>			
• $I_{cn}$ acc. to IEC/EN 60898-1	kA AC	4.5	6
• $I_{cu}$ acc. to IEC/EN 60947-2	kA AC	4.5	6
<b>Insulation coordination</b>			
• Rated insulation voltage	V AC	250/440	
• Pollution degree for overvoltage category		2/III	
• Rated impulse withstand voltage $U_{imp}$	kV AC	4	
<b>Rated frequency</b>	Hz	50/60	
<b>Touch protection</b>	Acc. to EN 50274	Yes	
<b>Handle end position</b> , sealable		Yes	
<b>Degree of protection</b>		IP20 with connected conductors, IP40 in the area of the handle with distribution cover	
<b>CFC and silicone-free</b>		Yes	
<b>Conductor cross-sections</b>			
• 1-wire			
- Solid ( $\leq 10 \text{ mm}^2$ ) / stranded ( $\geq 16 \text{ mm}^2$ )	mm <sup>2</sup>	0.75 ... 35	
- Finely stranded with non-insulated end sleeve	mm <sup>2</sup>	0.75 ... 25	
- Finely stranded with insulated end sleeve	mm <sup>2</sup>	0.75 ... 25	
- Finely stranded without end sleeve	mm <sup>2</sup>	1 ... 35	
• 2-wire, same cross-section			
- Solid ( $\leq 10 \text{ mm}^2$ ) / stranded ( $\geq 16 \text{ mm}^2$ )	mm <sup>2</sup>	0.75 ... 10	
- Finely stranded with non-insulated end sleeve	mm <sup>2</sup>	0.75 ... 4	
- Finely stranded with insulated end sleeve	mm <sup>2</sup>	0.75 ... 4	
- Finely stranded without end sleeve	mm <sup>2</sup>	1 ... 4	
• 1-wire + busbar (pin thickness 1.5 mm)			
- Solid ( $\leq 10 \text{ mm}^2$ ) / stranded ( $\geq 16 \text{ mm}^2$ )	mm <sup>2</sup>	10 ... 25	
- Finely stranded with non-insulated end sleeve	mm <sup>2</sup>	6 ... 25	
- Finely stranded with insulated end sleeve	mm <sup>2</sup>	6 ... 16	
<b>Terminals</b>	± screw (Pozidriv)	2	
• Terminal tightening torque	Nm	2.5 ... 3	
<b>Mounting position</b>		Any	
<b>Service life</b> , on average, with rated load		20000 actuations	
<b>Storage temperature</b>	°C	-40 ... +75, 95 % humidity up to 55 °C	
<b>Ambient temperature</b>	°C	-25 ... +45, occasionally +55, max. 95 % humidity	-25 ... +55, max. 95 % humidity
<b>Resistance to climate</b>	Acc. to IEC 60068-2-30	6 cycles	

<sup>1)</sup> The operational voltage 60 V DC/pole takes into account a battery charging voltage with a peak value of 72 V.

<sup>2)</sup> Exempt: Characteristic C: 0.3 ... 1 A, characteristic D: 0.3 ... 2 A.









## Miniature Circuit Breakers




### 5SL Miniature Circuit Breakers

#### 5SL3, 4500 A

4500 3			$I_n$	Mounting width	SD	Characteristic B				Characteristic C							
			A	MW <sup>1)</sup>	d	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	
<b>Miniature circuit breakers 4500 A</b>																	
		<b>3P, 400 V AC</b>															
		1	3	--								<b>5SL3301-7</b>		1	1 unit	1AE	
		2		--									<b>5SL3302-7</b>		1	1 unit	1AE
		3		--									<b>5SL3303-7</b>		1	1 unit	1AE
		4		--									<b>5SL3304-7</b>		1	1 unit	1AE
		6		--			<b>5SL3306-6</b>		1	1 unit	1AE		<b>5SL3306-7</b>		1	1 unit	1AE
		10		--			<b>5SL3310-6</b>		1	1 unit	1AE		<b>5SL3310-7</b>		1	1 unit	1AE
		16		--			<b>5SL3316-6</b>		1	1 unit	1AE		<b>5SL3316-7</b>		1	1 unit	1AE
		20		--			<b>5SL3320-6</b>		1	1 unit	1AE		<b>5SL3320-7</b>		1	1 unit	1AE
		25		--			<b>5SL3325-6</b>		1	1 unit	1AE		<b>5SL3325-7</b>		1	1 unit	1AE
		32		--			<b>5SL3332-6</b>		1	1 unit	1AE		<b>5SL3332-7</b>		1	1 unit	1AE
		40		--			<b>5SL3340-6</b>		1	1 unit	1AE		<b>5SL3340-7</b>		1	1 unit	1AE
		50		--			<b>5SL3350-6</b>		1	1 unit	1AE		<b>5SL3350-7</b>		1	1 unit	1AE
63		--			<b>5SL3363-6</b>		1	1 unit	1AE		<b>5SL3363-7</b>		1	1 unit	1AE		
		<b>3P+N, 400 V AC</b>															
		1	4	--								<b>5SL3601-7</b>		1	1 unit	1AE	
		2		--									<b>5SL3602-7</b>		1	1 unit	1AE
		3		--									<b>5SL3603-7</b>		1	1 unit	1AE
		4		--									<b>5SL3604-7</b>		1	1 unit	1AE
		6		--			<b>5SL3606-6</b>		1	1 unit	1AE		<b>5SL3606-7</b>		1	1 unit	1AE
		8		--									<b>5SL3608-7</b>		1	1 unit	1AE
		10		--			<b>5SL3610-6</b>		1	1 unit	1AE		<b>5SL3610-7</b>		1	1 unit	1AE
		13		--			<b>5SL3613-6</b>		1	1 unit	1AE		<b>5SL3613-7</b>		1	1 unit	1AE
		16		--			<b>5SL3616-6</b>		1	1 unit	1AE		<b>5SL3616-7</b>		1	1 unit	1AE
		20		--			<b>5SL3620-6</b>		1	1 unit	1AE		<b>5SL3620-7</b>		1	1 unit	1AE
		25		--			<b>5SL3625-6</b>		1	1 unit	1AE		<b>5SL3625-7</b>		1	1 unit	1AE
		32		--			<b>5SL3632-6</b>		1	1 unit	1AE		<b>5SL3632-7</b>		1	1 unit	1AE
40		--			<b>5SL3640-6</b>		1	1 unit	1AE		<b>5SL3640-7</b>		1	1 unit	1AE		
50		--			<b>5SL3650-6</b>		1	1 unit	1AE		<b>5SL3650-7</b>		1	1 unit	1AE		
63		--			<b>5SL3663-6</b>		1	1 unit	1AE		<b>5SL3663-7</b>		1	1 unit	1AE		
		<b>4P, 400 V AC</b>															
		1	4	--								<b>5SL3401-7</b>		1	1 unit	1AE	
		2		--									<b>5SL3402-7</b>		1	1 unit	1AE
		3		--									<b>5SL3403-7</b>		1	1 unit	1AE
		4		--									<b>5SL3404-7</b>		1	1 unit	1AE
		6		--									<b>5SL3406-7</b>		1	1 unit	1AE
		10		--									<b>5SL3410-7</b>		1	1 unit	1AE
		13		--									<b>5SL3413-7</b>		1	1 unit	1AE
		16		--									<b>5SL3416-7</b>		1	1 unit	1AE
		20		--									<b>5SL3420-7</b>		1	1 unit	1AE
		25		--									<b>5SL3425-7</b>		1	1 unit	1AE
		32		--									<b>5SL3432-7</b>		1	1 unit	1AE
		40		--									<b>5SL3440-7</b>		1	1 unit	1AE
50		--									<b>5SL3450-7</b>		1	1 unit	1AE		
63		--									<b>5SL3463-7</b>		1	1 unit	1AE		

<sup>1)</sup> 1 MW (modular width) = 18 mm.

### Selection and ordering data





6000 3	DVE	I <sub>n</sub>	Mounting width MW <sup>1)</sup>	SD	Characteristic B					Characteristic C				
					Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS
		A		d										
<b>Miniature circuit breakers 6000 A</b>														
	<b>1P, 230/400 V AC</b>													
	0.3	1	--							<b>5SL6114-7</b>		1	1 unit	1AC
	0.5		--							<b>5SL6105-7</b>		1	1 unit	1AC
	1		--							<b>5SL6101-7</b>		1	1 unit	1AC
	1.6		--							<b>5SL6115-7</b>		1	1 unit	1AC
	2	<b>NEW</b>	<b>5SL6102-6</b>			1	1 unit	1AB		<b>5SL6102-7</b>		1	1 unit	1AC
	3		--							<b>5SL6103-7</b>		1	1 unit	1AC
	4	<b>NEW</b>	<b>5SL6104-6</b>			1	1 unit	1AB		<b>5SL6104-7</b>		1	1 unit	1AC
	6		<b>5SL6106-6</b>			1	1 unit	1AB		<b>5SL6106-7</b>		1	1 unit	1AC
	8		--							<b>5SL6108-7</b>		1	1 unit	1AC
	10		<b>5SL6110-6</b>			1	1 unit	1AB		<b>5SL6110-7</b>		1	1 unit	1AC
	13		<b>5SL6113-6</b>			1	1 unit	1AB		<b>5SL6113-7</b>		1	1 unit	1AC
	16		<b>5SL6116-6</b>			1	1 unit	1AB		<b>5SL6116-7</b>		1	1 unit	1AC
	20		<b>5SL6120-6</b>			1	1 unit	1AB		<b>5SL6120-7</b>		1	1 unit	1AC
25		<b>5SL6125-6</b>			1	1 unit	1AB		<b>5SL6125-7</b>		1	1 unit	1AC	
32		<b>5SL6132-6</b>			1	1 unit	1AB		<b>5SL6132-7</b>		1	1 unit	1AC	
40		<b>5SL6140-6</b>			1	1 unit	1AB		<b>5SL6140-7</b>		1	1 unit	1AC	
50		<b>5SL6150-6</b>			1	1 unit	1AB		<b>5SL6150-7</b>		1	1 unit	1AC	
63		<b>5SL6163-6</b>			1	1 unit	1AB		<b>5SL6163-7</b>		1	1 unit	1AC	
	<b>1P+N, 230 V AC</b>													
	0.3	2	--							<b>5SL6514-7</b>		1	1 unit	1AC
	0.5		--							<b>5SL6505-7</b>		1	1 unit	1AC
	1		--							<b>5SL6501-7</b>		1	1 unit	1AC
	1.6		--							<b>5SL6515-7</b>		1	1 unit	1AC
	2		--							<b>5SL6502-7</b>		1	1 unit	1AC
	3		--							<b>5SL6503-7</b>		1	1 unit	1AC
	4		--							<b>5SL6504-7</b>		1	1 unit	1AC
	6		<b>5SL6506-6</b>			1	1 unit	1AB		<b>5SL6506-7</b>		1	1 unit	1AC
	8		--							<b>5SL6508-7</b>		1	1 unit	1AC
	10		<b>5SL6510-6</b>			1	1 unit	1AB		<b>5SL6510-7</b>		1	1 unit	1AC
	13		<b>5SL6513-6</b>			1	1 unit	1AB		<b>5SL6513-7</b>		1	1 unit	1AC
	16		<b>5SL6516-6</b>			1	1 unit	1AB		<b>5SL6516-7</b>		1	1 unit	1AC
	20		<b>5SL6520-6</b>			1	1 unit	1AB		<b>5SL6520-7</b>		1	1 unit	1AC
25		<b>5SL6525-6</b>			1	1 unit	1AB		<b>5SL6525-7</b>		1	1 unit	1AC	
32		<b>5SL6532-6</b>			1	1 unit	1AB		<b>5SL6532-7</b>		1	1 unit	1AC	
40		<b>5SL6540-6</b>			1	1 unit	1AB		<b>5SL6540-7</b>		1	1 unit	1AC	
50		<b>5SL6550-6</b>			1	1 unit	1AB		<b>5SL6550-7</b>		1	1 unit	1AC	
63		<b>5SL6563-6</b>			1	1 unit	1AB		<b>5SL6563-7</b>		1	1 unit	1AC	
	<b>2P, 400 V AC</b>													
	0.3	2	--							<b>5SL6214-7</b>		1	1 unit	1AC
	0.5		--							<b>5SL6205-7</b>		1	1 unit	1AC
	1		--							<b>5SL6201-7</b>		1	1 unit	1AC
	1.6		--							<b>5SL6215-7</b>		1	1 unit	1AC
	2		--							<b>5SL6202-7</b>		1	1 unit	1AC
	3		--							<b>5SL6203-7</b>		1	1 unit	1AC
	4		--							<b>5SL6204-7</b>		1	1 unit	1AC
	6		<b>5SL6206-6</b>			1	1 unit	1AB		<b>5SL6206-7</b>		1	1 unit	1AC
	8		--							<b>5SL6208-7</b>		1	1 unit	1AC
	10		<b>5SL6210-6</b>			1	1 unit	1AB		<b>5SL6210-7</b>		1	1 unit	1AC
	13		<b>5SL6213-6</b>			1	1 unit	1AB		<b>5SL6213-7</b>		1	1 unit	1AC
	16		<b>5SL6216-6</b>			1	1 unit	1AB		<b>5SL6216-7</b>		1	1 unit	1AC
	20		<b>5SL6220-6</b>			1	1 unit	1AB		<b>5SL6220-7</b>		1	1 unit	1AC
25		<b>5SL6225-6</b>			1	1 unit	1AB		<b>5SL6225-7</b>		1	1 unit	1AC	
32		<b>5SL6232-6</b>			1	1 unit	1AB		<b>5SL6232-7</b>		1	1 unit	1AC	
40		<b>5SL6240-6</b>			1	1 unit	1AB		<b>5SL6240-7</b>		1	1 unit	1AC	
50		<b>5SL6250-6</b>			1	1 unit	1AB		<b>5SL6250-7</b>		1	1 unit	1AC	
63		<b>5SL6263-6</b>			1	1 unit	1AB		<b>5SL6263-7</b>		1	1 unit	1AC	

<sup>1)</sup> 1 MW (modular width) = 18 mm.

## Miniature Circuit Breakers

### 5SL Miniature Circuit Breakers





#### 5SL6, 6000 A

6000 3		$I_n$	Mounting width	SD	Characteristic B				Characteristic C				
					Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)
		A	MW <sup>1)</sup>	d									
<b>Miniature circuit breakers 6000 A</b>													
	<b>3P, 400 V AC</b>												
	0.3	3	--							5SL6314-7	1	1 unit	1AC
	0.5		--							5SL6305-7	1	1 unit	1AC
	1		--							5SL6301-7	1	1 unit	1AC
	1.6		--							5SL6315-7	1	1 unit	1AC
	2		--							5SL6302-7	1	1 unit	1AC
	3		--							5SL6303-7	1	1 unit	1AC
	4		--							5SL6304-7	1	1 unit	1AC
	6		5SL6306-6			1	1 unit	1AB		5SL6306-7	1	1 unit	1AC
	8		--							5SL6308-7	1	1 unit	1AC
	10		5SL6310-6			1	1 unit	1AB		5SL6310-7	1	1 unit	1AC
	13		5SL6313-6			1	1 unit	1AB		5SL6313-7	1	1 unit	1AC
	16		5SL6316-6			1	1 unit	1AB		5SL6316-7	1	1 unit	1AC
	20		5SL6320-6			1	1 unit	1AB		5SL6320-7	1	1 unit	1AC
	25		5SL6325-6			1	1 unit	1AB		5SL6325-7	1	1 unit	1AC
32		5SL6332-6			1	1 unit	1AB		5SL6332-7	1	1 unit	1AC	
40		5SL6340-6			1	1 unit	1AB		5SL6340-7	1	1 unit	1AC	
50		5SL6350-6			1	1 unit	1AB		5SL6350-7	1	1 unit	1AC	
63		5SL6363-6			1	1 unit	1AB		5SL6363-7	1	1 unit	1AC	
	<b>3P+N, 400 V AC</b>												
	0.3	4	--							5SL6614-7	1	1 unit	1AC
	0.5		--							5SL6605-7	1	1 unit	1AC
	1		--							5SL6601-7	1	1 unit	1AC
	1.6		--							5SL6615-7	1	1 unit	1AC
	2		--							5SL6602-7	1	1 unit	1AC
	3		--							5SL6603-7	1	1 unit	1AC
	4		--							5SL6604-7	1	1 unit	1AC
	6		5SL6606-6			1	1 unit	1AB		5SL6606-7	1	1 unit	1AC
	8		--							5SL6608-7	1	1 unit	1AC
	10		5SL6610-6			1	1 unit	1AB		5SL6610-7	1	1 unit	1AC
	13		5SL6613-6			1	1 unit	1AB		5SL6613-7	1	1 unit	1AC
	16		5SL6616-6			1	1 unit	1AB		5SL6616-7	1	1 unit	1AC
	20		5SL6620-6			1	1 unit	1AB		5SL6620-7	1	1 unit	1AC
	25		5SL6625-6			1	1 unit	1AB		5SL6625-7	1	1 unit	1AC
32		5SL6632-6			1	1 unit	1AB		5SL6632-7	1	1 unit	1AC	
40		5SL6640-6			1	1 unit	1AB		5SL6640-7	1	1 unit	1AC	
50		5SL6650-6			1	1 unit	1AB		5SL6650-7	1	1 unit	1AC	
63		5SL6663-6			1	1 unit	1AB		5SL6663-7	1	1 unit	1AC	
	<b>4P, 400 V AC</b>												
	0.3	4	--							5SL6414-7	1	1 unit	1AC
	0.5		--							5SL6405-7	1	1 unit	1AC
	1		--							5SL6401-7	1	1 unit	1AC
	1.6		--							5SL6415-7	1	1 unit	1AC
	2		--							5SL6402-7	1	1 unit	1AC
	3		--							5SL6403-7	1	1 unit	1AC
	4		--							5SL6404-7	1	1 unit	1AC
	6		5SL6406-6			1	1 unit	1AB		5SL6406-7	1	1 unit	1AC
	8		--							5SL6408-7	1	1 unit	1AC
	10		5SL6410-6			1	1 unit	1AB		5SL6410-7	1	1 unit	1AC
	13		5SL6413-6			1	1 unit	1AB		5SL6413-7	1	1 unit	1AC
	16		5SL6416-6			1	1 unit	1AB		5SL6416-7	1	1 unit	1AC
	20		5SL6420-6			1	1 unit	1AB		5SL6420-7	1	1 unit	1AC
	25		5SL6425-6			1	1 unit	1AB		5SL6425-7	1	1 unit	1AC
32		5SL6432-6			1	1 unit	1AB		5SL6432-7	1	1 unit	1AC	
40		5SL6440-6			1	1 unit	1AB		5SL6440-7	1	1 unit	1AC	
50		5SL6450-6			1	1 unit	1AB		5SL6450-7	1	1 unit	1AC	
63		5SL6463-6			1	1 unit	1AB		5SL6463-7	1	1 unit	1AC	

<sup>1)</sup> 1 MW (modular width) = 18 mm.



## Selection and ordering data





10000			$I_n$	Mounting width	SD	Characteristic B					Characteristic C					
3			A	MW <sup>1)</sup>	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Miniature circuit breakers 10000 A</b>																
	<b>1P, 230/400 V AC</b>															
	0.3	1	--									<b>5SL4114-7</b>		1	1 unit	1AC
	0.5		--									<b>5SL4105-7</b>		1	1 unit	1AC
	1		<b>5SL4101-6</b>					1	1 unit	1AB		<b>5SL4101-7</b>		1	1 unit	1AC
	1.6		--									<b>5SL4115-7</b>		1	1 unit	1AC
	2		<b>5SL4102-6</b>					1	1 unit	1AB		<b>5SL4102-7</b>		1	1 unit	1AC
	3		<b>5SL4103-6</b>					1	1 unit	1AB		<b>5SL4103-7</b>		1	1 unit	1AC
	4		<b>5SL4104-6</b>					1	1 unit	1AB		<b>5SL4104-7</b>		1	1 unit	1AC
	6		<b>5SL4106-6</b>					1	1 unit	1AB		<b>5SL4106-7</b>		1	1 unit	1AC
	8		<b>5SL4108-6</b>					1	1 unit	1AB		<b>5SL4108-7</b>		1	1 unit	1AC
	10		<b>5SL4110-6</b>	▶				1	1 unit	1AB		<b>5SL4110-7</b>		1	1 unit	1AC
	13		<b>5SL4113-6</b>					1	1 unit	1AB		<b>5SL4113-7</b>		1	1 unit	1AC
	16		<b>5SL4116-6</b>	▶				1	1 unit	1AB	▶	<b>5SL4116-7</b>		1	1 unit	1AC
	20		<b>5SL4120-6</b>					1	1 unit	1AB		<b>5SL4120-7</b>		1	1 unit	1AC
25		<b>5SL4125-6</b>					1	1 unit	1AB		<b>5SL4125-7</b>		1	1 unit	1AC	
32		<b>5SL4132-6</b>					1	1 unit	1AB		<b>5SL4132-7</b>		1	1 unit	1AC	
40		<b>5SL4140-6</b>					1	1 unit	1AB		<b>5SL4140-7</b>		1	1 unit	1AC	
50		<b>5SL4150-6</b>					1	1 unit	1AB		<b>5SL4150-7</b>		1	1 unit	1AC	
63		<b>5SL4163-6</b>					1	1 unit	1AB		<b>5SL4163-7</b>		1	1 unit	1AC	
	<b>1P+N, 230 V AC</b>															
	0.3	2	--									<b>5SL4514-7</b>		1	1 unit	1AC
	0.5		--									<b>5SL4505-7</b>		1	1 unit	1AC
	1		<b>5SL4501-6</b>					1	1 unit	1AB		<b>5SL4501-7</b>		1	1 unit	1AC
	1.6		--									<b>5SL4515-7</b>		1	1 unit	1AC
	2		<b>5SL4502-6</b>					1	1 unit	1AB		<b>5SL4502-7</b>		1	1 unit	1AC
	3		<b>5SL4503-6</b>					1	1 unit	1AB		<b>5SL4503-7</b>		1	1 unit	1AC
	4		<b>5SL4504-6</b>					1	1 unit	1AB		<b>5SL4504-7</b>		1	1 unit	1AC
	6		<b>5SL4506-6</b>					1	1 unit	1AB		<b>5SL4506-7</b>		1	1 unit	1AC
	8		<b>5SL4508-6</b>					1	1 unit	1AB		<b>5SL4508-7</b>		1	1 unit	1AC
	10		<b>5SL4510-6</b>					1	1 unit	1AB	▶	<b>5SL4510-7</b>		1	1 unit	1AC
	13		<b>5SL4513-6</b>					1	1 unit	1AB		<b>5SL4513-7</b>		1	1 unit	1AC
	16		<b>5SL4516-6</b>					1	1 unit	1AB		<b>5SL4516-7</b>		1	1 unit	1AC
	20		<b>5SL4520-6</b>					1	1 unit	1AB		<b>5SL4520-7</b>		1	1 unit	1AC
25		<b>5SL4525-6</b>					1	1 unit	1AB		<b>5SL4525-7</b>		1	1 unit	1AC	
32		<b>5SL4532-6</b>					1	1 unit	1AB		<b>5SL4532-7</b>		1	1 unit	1AC	
40		<b>5SL4540-6</b>					1	1 unit	1AB		<b>5SL4540-7</b>		1	1 unit	1AC	
50		<b>5SL4550-6</b>					1	1 unit	1AB		<b>5SL4550-7</b>		1	1 unit	1AC	
63		<b>5SL4563-6</b>					1	1 unit	1AB		<b>5SL4563-7</b>		1	1 unit	1AC	
	<b>2P, 400 V AC</b>															
	0.3	2	--									<b>5SL4214-7</b>		1	1 unit	1AC
	0.5		--									<b>5SL4205-7</b>		1	1 unit	1AC
	1		<b>5SL4201-6</b>					1	1 unit	1AB		<b>5SL4201-7</b>		1	1 unit	1AC
	1.6		--									<b>5SL4215-7</b>		1	1 unit	1AC
	2		<b>5SL4202-6</b>					1	1 unit	1AB		<b>5SL4202-7</b>		1	1 unit	1AC
	3		<b>5SL4203-6</b>					1	1 unit	1AB		<b>5SL4203-7</b>		1	1 unit	1AC
	4		<b>5SL4204-6</b>					1	1 unit	1AB		<b>5SL4204-7</b>		1	1 unit	1AC
	6		<b>5SL4206-6</b>					1	1 unit	1AB		<b>5SL4206-7</b>		1	1 unit	1AC
	8		<b>5SL4208-6</b>					1	1 unit	1AB		<b>5SL4208-7</b>		1	1 unit	1AC
	10		<b>5SL4210-6</b>					1	1 unit	1AB		<b>5SL4210-7</b>		1	1 unit	1AC
	13		<b>5SL4213-6</b>					1	1 unit	1AB		<b>5SL4213-7</b>		1	1 unit	1AC
	16		<b>5SL4216-6</b>					1	1 unit	1AB		<b>5SL4216-7</b>		1	1 unit	1AC
	20		<b>5SL4220-6</b>					1	1 unit	1AB		<b>5SL4220-7</b>		1	1 unit	1AC
25		<b>5SL4225-6</b>					1	1 unit	1AB		<b>5SL4225-7</b>		1	1 unit	1AC	
32		<b>5SL4232-6</b>					1	1 unit	1AB		<b>5SL4232-7</b>		1	1 unit	1AC	
40		<b>5SL4240-6</b>					1	1 unit	1AB		<b>5SL4240-7</b>		1	1 unit	1AC	
50		<b>5SL4250-6</b>					1	1 unit	1AB		<b>5SL4250-7</b>		1	1 unit	1AC	
63		<b>5SL4263-6</b>					1	1 unit	1AB		<b>5SL4263-7</b>		1	1 unit	1AC	

1) 1 MW (modular width) = 18 mm.

## Miniature Circuit Breakers

### 5SL Miniature Circuit Breakers

#### 5SL4, 10000 A






10000 3			$I_n$	Mounting width	SD	Characteristic B				Characteristic C						
			A	MW <sup>1)</sup>	d	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Miniature circuit breakers 10000 A</b>																
<b>3P, 400 V AC</b>																
			0.3	3		--						<b>5SL4314-7</b>		1	1 unit	1AC
			0.5			--						<b>5SL4305-7</b>		1	1 unit	1AC
			1			<b>5SL4301-6</b>		1	1 unit	1AB		<b>5SL4301-7</b>		1	1 unit	1AC
			1.6			--						<b>5SL4315-7</b>		1	1 unit	1AC
			2			<b>5SL4302-6</b>		1	1 unit	1AB		<b>5SL4302-7</b>		1	1 unit	1AC
			3			<b>5SL4303-6</b>		1	1 unit	1AB		<b>5SL4303-7</b>		1	1 unit	1AC
			4			<b>5SL4304-6</b>		1	1 unit	1AB		<b>5SL4304-7</b>		1	1 unit	1AC
			6			<b>5SL4306-6</b>		1	1 unit	1AB		<b>5SL4306-7</b>		1	1 unit	1AC
			8			<b>5SL4308-6</b>		1	1 unit	1AB		<b>5SL4308-7</b>		1	1 unit	1AC
			10			<b>5SL4310-6</b>		1	1 unit	1AB		<b>5SL4310-7</b>		1	1 unit	1AC
			13			<b>5SL4313-6</b>		1	1 unit	1AB		<b>5SL4313-7</b>		1	1 unit	1AC
			16			<b>5SL4316-6</b>		1	1 unit	1AB		<b>5SL4316-7</b>		1	1 unit	1AC
			20			<b>5SL4320-6</b>		1	1 unit	1AB		<b>5SL4320-7</b>		1	1 unit	1AC
			25			<b>5SL4325-6</b>		1	1 unit	1AB		<b>5SL4325-7</b>		1	1 unit	1AC
			32			<b>5SL4332-6</b>		1	1 unit	1AB		<b>5SL4332-7</b>		1	1 unit	1AC
			40			<b>5SL4340-6</b>		1	1 unit	1AB		<b>5SL4340-7</b>		1	1 unit	1AC
			50			<b>5SL4350-6</b>		1	1 unit	1AB		<b>5SL4350-7</b>		1	1 unit	1AC
			63			<b>5SL4363-6</b>		1	1 unit	1AB		<b>5SL4363-7</b>		1	1 unit	1AC
<b>3P+N, 400 V AC</b>																
			0.3	4		--						<b>5SL4614-7</b>		1	1 unit	1AC
			0.5			--						<b>5SL4605-7</b>		1	1 unit	1AC
			1			<b>5SL4601-6</b>		1	1 unit	1AB		<b>5SL4601-7</b>		1	1 unit	1AC
			1.6			--						<b>5SL4615-7</b>		1	1 unit	1AC
			2			<b>5SL4602-6</b>		1	1 unit	1AB		<b>5SL4602-7</b>		1	1 unit	1AC
			3			<b>5SL4603-6</b>		1	1 unit	1AB		<b>5SL4603-7</b>		1	1 unit	1AC
			4			<b>5SL4604-6</b>		1	1 unit	1AB		<b>5SL4604-7</b>		1	1 unit	1AC
			6			<b>5SL4606-6</b>		1	1 unit	1AB		<b>5SL4606-7</b>		1	1 unit	1AC
			8			<b>5SL4608-6</b>		1	1 unit	1AB		<b>5SL4608-7</b>		1	1 unit	1AC
			10			<b>5SL4610-6</b>		1	1 unit	1AB		<b>5SL4610-7</b>		1	1 unit	1AC
			13			<b>5SL4613-6</b>		1	1 unit	1AB		<b>5SL4613-7</b>		1	1 unit	1AC
			16			<b>5SL4616-6</b>		1	1 unit	1AB		<b>5SL4616-7</b>		1	1 unit	1AC
			20			<b>5SL4620-6</b>		1	1 unit	1AB		<b>5SL4620-7</b>		1	1 unit	1AC
			25			<b>5SL4625-6</b>		1	1 unit	1AB		<b>5SL4625-7</b>		1	1 unit	1AC
			32			<b>5SL4632-6</b>		1	1 unit	1AB		<b>5SL4632-7</b>		1	1 unit	1AC
			40			<b>5SL4640-6</b>		1	1 unit	1AB		<b>5SL4640-7</b>		1	1 unit	1AC
			50			<b>5SL4650-6</b>		1	1 unit	1AB		<b>5SL4650-7</b>		1	1 unit	1AC
			63			<b>5SL4663-6</b>		1	1 unit	1AB		<b>5SL4663-7</b>		1	1 unit	1AC
<b>4P, 400 V AC</b>																
			0.3	4		--						<b>5SL4414-7</b>		1	1 unit	1AC
			0.5			--						<b>5SL4405-7</b>		1	1 unit	1AC
			1			<b>5SL4401-6</b>		1	1 unit	1AB		<b>5SL4401-7</b>		1	1 unit	1AC
			1.6			--						<b>5SL4415-7</b>		1	1 unit	1AC
			2			<b>5SL4402-6</b>		1	1 unit	1AB		<b>5SL4402-7</b>		1	1 unit	1AC
			3			<b>5SL4403-6</b>		1	1 unit	1AB		<b>5SL4403-7</b>		1	1 unit	1AC
			4			<b>5SL4404-6</b>		1	1 unit	1AB		<b>5SL4404-7</b>		1	1 unit	1AC
			6			<b>5SL4406-6</b>		1	1 unit	1AB		<b>5SL4406-7</b>		1	1 unit	1AC
			8			<b>5SL4408-6</b>		1	1 unit	1AB		<b>5SL4408-7</b>		1	1 unit	1AC
			10			<b>5SL4410-6</b>		1	1 unit	1AB		<b>5SL4410-7</b>		1	1 unit	1AC
			13			<b>5SL4413-6</b>		1	1 unit	1AB		<b>5SL4413-7</b>		1	1 unit	1AC
			16			<b>5SL4416-6</b>		1	1 unit	1AB		<b>5SL4416-7</b>		1	1 unit	1AC
			20			<b>5SL4420-6</b>		1	1 unit	1AB		<b>5SL4420-7</b>		1	1 unit	1AC
			25			<b>5SL4425-6</b>		1	1 unit	1AB		<b>5SL4425-7</b>		1	1 unit	1AC
			32			<b>5SL4432-6</b>		1	1 unit	1AB		<b>5SL4432-7</b>		1	1 unit	1AC
			40			<b>5SL4440-6</b>		1	1 unit	1AB		<b>5SL4440-7</b>		1	1 unit	1AC
			50			<b>5SL4450-6</b>		1	1 unit	1AB		<b>5SL4450-7</b>		1	1 unit	1AC
			63			<b>5SL4463-6</b>		1	1 unit	1AB		<b>5SL4463-7</b>		1	1 unit	1AC

<sup>1)</sup> 1 MW (modular width) = 18 mm.

# Miniature Circuit Breakers

## 5SL Miniature Circuit Breakers

5SL4, 10000 A




		$I_n$	Mounting width	SD	Characteristic D Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG			
										A	MW <sup>1)</sup>	d
<b>Miniature circuit breakers 10000 A</b>												
	<b>1P, 230/400 V AC</b>		1									
	0.3	5SL4114-8								1	1 unit	1AA
	0.5	5SL4105-8								1	1 unit	1AA
	1	5SL4101-8								1	1 unit	1AA
	1.6	5SL4115-8								1	1 unit	1AA
	2	5SL4102-8								1	1 unit	1AA
	3	5SL4103-8								1	1 unit	1AA
	4	5SL4104-8								1	1 unit	1AA
	6	5SL4106-8								1	1 unit	1AA
	8	5SL4108-8								1	1 unit	1AA
	10	5SL4110-8								1	1 unit	1AA
	13	5SL4113-8								1	1 unit	1AA
	16	5SL4116-8								1	1 unit	1AA
	20	5SL4120-8								1	1 unit	1AA
	25	5SL4125-8								1	1 unit	1AA
	32	5SL4132-8								1	1 unit	1AA
40	5SL4140-8	1	1 unit	1AA								
50	5SL4150-8	1	1 unit	1AA								
63	5SL4163-8	1	1 unit	1AA								
	<b>1P+N, 230 V AC</b>		2									
	0.3	5SL4514-8								1	1 unit	1AA
	0.5	5SL4505-8								1	1 unit	1AA
	1	5SL4501-8								1	1 unit	1AA
	1.6	5SL4515-8								1	1 unit	1AA
	2	5SL4502-8								1	1 unit	1AA
	3	5SL4503-8								1	1 unit	1AA
	4	5SL4504-8								1	1 unit	1AA
	6	5SL4506-8								1	1 unit	1AA
	8	5SL4508-8								1	1 unit	1AA
	10	5SL4510-8								1	1 unit	1AA
	13	5SL4513-8								1	1 unit	1AA
	16	5SL4516-8								1	1 unit	1AA
	20	5SL4520-8								1	1 unit	1AA
	25	5SL4525-8								1	1 unit	1AA
	32	5SL4532-8								1	1 unit	1AA
40	5SL4540-8	1	1 unit	1AA								
50	5SL4550-8	1	1 unit	1AA								
63	5SL4563-8	1	1 unit	1AA								
	<b>2P, 400 V AC</b>		2									
	0.3	5SL4214-8								1	1 unit	1AA
	0.5	5SL4205-8								1	1 unit	1AA
	1	5SL4201-8								1	1 unit	1AA
	1.6	5SL4215-8								1	1 unit	1AA
	2	5SL4202-8								1	1 unit	1AA
	3	5SL4203-8								1	1 unit	1AA
	4	5SL4204-8								1	1 unit	1AA
	6	5SL4206-8								1	1 unit	1AA
	8	5SL4208-8								1	1 unit	1AA
	10	5SL4210-8								1	1 unit	1AA
	13	5SL4213-8								1	1 unit	1AA
	16	5SL4216-8								1	1 unit	1AA
	20	5SL4220-8								1	1 unit	1AA
	25	5SL4225-8								1	1 unit	1AA
	32	5SL4232-8								1	1 unit	1AA
40	5SL4240-8	1	1 unit	1AA								
50	5SL4250-8	1	1 unit	1AA								
63	5SL4263-8	1	1 unit	1AA								

1) 1 MW (modular width) = 18 mm.

## Miniature Circuit Breakers

### 5SL Miniature Circuit Breakers

#### 5SL4, 10000 A

10000 3 D'E	$I_n$	Mounting width MW <sup>1)</sup>	SD d	Characteristic D Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Miniature circuit breakers 10000 A</b>								
	<b>3P, 400 V AC</b>							
	0.3	3		5SL4314-8		1	1 unit	1AA
	0.5			5SL4305-8		1	1 unit	1AA
	1			5SL4301-8		1	1 unit	1AA
	1.6			5SL4315-8		1	1 unit	1AA
	2			5SL4302-8		1	1 unit	1AA
	3			5SL4303-8		1	1 unit	1AA
	4			5SL4304-8		1	1 unit	1AA
	6			5SL4306-8		1	1 unit	1AA
	8			5SL4308-8		1	1 unit	1AA
	10			5SL4310-8		1	1 unit	1AA
	13			5SL4313-8		1	1 unit	1AA
	16			5SL4316-8		1	1 unit	1AA
	20			5SL4320-8		1	1 unit	1AA
	25			5SL4325-8		1	1 unit	1AA
32			5SL4332-8		1	1 unit	1AA	
40			5SL4340-8		1	1 unit	1AA	
50			5SL4350-8		1	1 unit	1AA	
63			5SL4363-8		1	1 unit	1AA	
	<b>3P+N, 400 V AC</b>							
	0.3	4		5SL4614-8		1	1 unit	1AA
	0.5			5SL4605-8		1	1 unit	1AA
	1			5SL4601-8		1	1 unit	1AA
	1.6			5SL4615-8		1	1 unit	1AA
	2			5SL4602-8		1	1 unit	1AA
	3			5SL4603-8		1	1 unit	1AA
	4			5SL4604-8		1	1 unit	1AA
	6			5SL4606-8		1	1 unit	1AA
	8			5SL4608-8		1	1 unit	1AA
	10			5SL4610-8		1	1 unit	1AA
	13			5SL4613-8		1	1 unit	1AA
	16			5SL4616-8		1	1 unit	1AA
	20			5SL4620-8		1	1 unit	1AA
	25			5SL4625-8		1	1 unit	1AA
32			5SL4632-8		1	1 unit	1AA	
40			5SL4640-8		1	1 unit	1AA	
50			5SL4650-8		1	1 unit	1AA	
63			5SL4663-8		1	1 unit	1AA	
	<b>4P, 400 V AC</b>							
	0.3	4		5SL4414-8		1	1 unit	1AA
	0.5			5SL4405-8		1	1 unit	1AA
	1			5SL4401-8		1	1 unit	1AA
	1.6			5SL4415-8		1	1 unit	1AA
	2			5SL4402-8		1	1 unit	1AA
	3			5SL4403-8		1	1 unit	1AA
	4			5SL4404-8		1	1 unit	1AA
	6			5SL4406-8		1	1 unit	1AA
	8			5SL4408-8		1	1 unit	1AA
	10			5SL4410-8		1	1 unit	1AA
	13			5SL4413-8		1	1 unit	1AA
	16			5SL4416-8		1	1 unit	1AA
	20			5SL4420-8		1	1 unit	1AA
	25			5SL4425-8		1	1 unit	1AA
32			5SL4432-8		1	1 unit	1AA	
40			5SL4440-8		1	1 unit	1AA	
50			5SL4450-8		1	1 unit	1AA	
63			5SL4463-8		1	1 unit	1AA	

<sup>1)</sup> 1 MW (modular width) = 18 mm.



### Overview

Miniature circuit breakers are used to protect systems and installations in buildings and for industrial applications.

Used in industrial applications and plant engineering, miniature circuit breakers can be supplemented with additional components, such as auxiliary switches, fault signal contacts, shunt trips, undervoltage releases, remote controlled mechanisms, RC units, and arc fault detection devices.

The devices are approved for worldwide use according to IEC standards for power supply systems up to 250/440 V AC. 72 V DC per pole is permitted in DC systems.

For North America, there is an additional approval according to UL 1077 for use as "supplementary protectors" in systems up to 480/277 V AC. For use in ship building, the devices also have numerous certifications according to shipping classifications BV, DNV, GL and LRS. For information on this, see [chapter "Appendix" in "Standards and Approvals"](#).

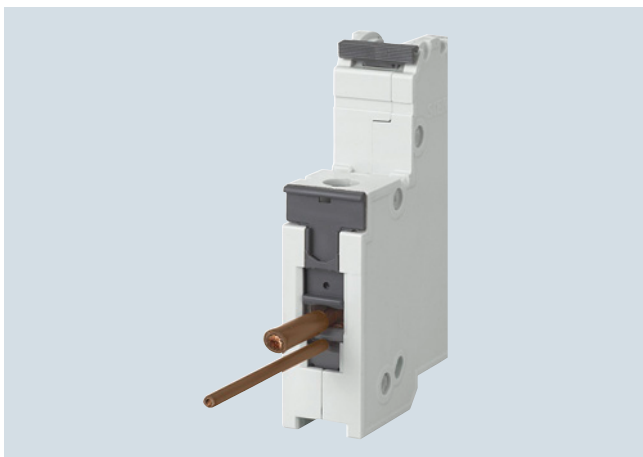
### Benefits



- Optional top or bottom infeed as the terminals are identical
- Clear and visible conductor connection in front of the rear busbar facilitates controls
- The conductor is easily inserted into the terminal thanks to the large and easily accessible wiring space



- Quick and easy manual removal of miniature circuit breakers from the busbar assembly, for example if connections need to be changed
- Time-saving replacement of parts as busbars no longer need to be freed from adjacent devices



- Double terminal chambers permit accommodation of 2 wires of different cross-sections.



- The 5SY miniature circuit breakers are ideal for the quick and easy mounting of auxiliary switches and fault signal contacts. Captive metal brackets on the additional components ensure the quick and easy mounting of devices on the miniature circuit breakers without the need for tools.

# Miniature Circuit Breakers

## 5SY and 5SP Miniature Circuit Breakers

### Introduction

### Technical specifications

		5SY6	5SY4	5SY7	5SY8	5SY5	5SP4
<b>Standards</b>		EN 60898-1 EN 60947-2	EN 60898-1 EN 60947-2	EN 60898-1 EN 60947-2	EN 60947-2	EN 60898-2	EN 60898-1
<b>Approvals</b>		see chapter "Appendix"					
<b>Rated voltage <math>U_n</math></b>	V AC V DC	230/400 --	230/400 --	230/400 --	230/400 --	230/400 220/440/ 880 <sup>5)</sup>	230/400 --
<b>Operational voltage</b>							
	Min. V AC/DC/pole	24	24	24	24	24	24
Acc. to EN 60898-1/-2 and EN 60947-2	Max. V DC/pole	72 <sup>4)</sup>	72 <sup>4)</sup>	72 <sup>4)</sup>	72 <sup>4)</sup>	250	72
	Max. V AC	250/440	250/440	250/440	250/440	250/440	250/440
<b>Breaking capacity<sup>1)</sup></b>							
• $I_{cn}$ acc. to IEC/EN 60898-1	kA AC	6	10	15	--	10	10
• $I_{cn}$ acc. to IEC/EN 60898-2	kA DC	10	10	15	--	10	10
• $I_{cu}$ acc. to IEC/EN 60947-2	kA AC kA DC	30 ... 10 <sup>1)</sup> 15	35 ... 10 <sup>1)</sup> 15	50 ... 15 <sup>1)</sup> 15	70 ... 20 <sup>1)</sup> 15	35 ... 10 <sup>1)</sup> 15	10 15
<b>Acc. to UL 1077 and CSA C22.2 No. 235</b>	SC	supplementary protector, OC, FW 0, OL 0, TC 3 at 50 °C U2: see Certificate of Compliance					
<b>Insulation coordination</b>							
• Rated insulation voltage	V AC V DC/pole	250/440 --	--	--	--	250	--
• Rated impulse withstand voltage $U_{imp}$	kV AC	4					
<b>Pollution degree for overvoltage category</b>		3/III <sup>3)</sup>					
<b>Rated frequency</b>	Hz	50/60					
<b>Touch protection</b>	Acc. to EN 50274	Yes					
<b>Handle end position, sealable</b>		Yes					
<b>Degree of protection</b>	Acc. to EN 60529	IP20 with connected conductors, IP40 in the area of the handle with distribution cover					
<b>CFC and silicone-free</b>		Yes					
<b>Mounting</b>							
• Snap-on fixing system		Yes					
• Standard mounting rail and screw fixing		--					
<b>Terminals</b>	± screw (Pozidriv)	2					
• Tunnel terminals at both ends		--					
• Combined terminals at both ends		Yes					
• Terminal tightening torque	Nm lb-in	2.5 ... 3.5 max. 22 ... 26					
<b>Conductor cross-sections</b>							
• Solid and stranded	mm <sup>2</sup>	0.75 ... 35					
• Finely stranded, with end sleeve	mm <sup>2</sup>	0.75 ... 25					
• AWG conductors (Cu 60/75 °C $I_n \leq 40$ A; 60 °C $I_n > 40$ A)	AWG	14 ... 4					
<b>Mains connection</b>							
• AC		Any					
• DC		Any					
<b>Mounting position</b>		Any					
<b>Service life</b>	Actuations	20000					
On average, with rated load	Actuations	10000, for 5SY5 at 40 A, 50 A and 63 A					
<b>Ambient temperature</b>	°C	-25 ... +55, max. 95 % humidity -40 ... +70 for 5SY4, 5SY5 and 5SY7, 95 % humidity up to 55 °C					
<b>Storage temperature</b>	°C	-40 ... +75, 95 % humidity up to 55 °C					
<b>Resistance to climate</b>	Acc. to IEC 60068-2-30	6 cycles					
<b>Shock</b>	Acc. to IEC 60068-2-27	m/s <sup>2</sup>	150 at 11 ms half-sine				
<b>Resistance to vibrations</b>	Acc. to IEC 60068-2-6	m/s <sup>2</sup>	50 at 25 ... 150 Hz and 60 at 35 Hz (4 s)				

<sup>1)</sup> For detailed information, see Configuration Manual "Miniature Circuit Breakers" ([www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)).

<sup>2)</sup> Ensure compliance with the specified polarity when connecting DC.

<sup>3)</sup> 5SY54.. 4-pole, degree of pollution 2 for overvoltage category II.

<sup>4)</sup> Exempt: C/D 0.3 A ... 0.5 A





<sup>5)</sup> 5SY54.. 4-pole 880 V is not a standardized voltage acc. to EN 60898-1, suitable for max. 1000 V DC if the four poles are connected in series.

# Miniature Circuit Breakers

## 5SY and 5SP Miniature Circuit Breakers

5SY6, 6000 A

## Selection and ordering data





6000 3			$I_n$	Mounting width	SD	Characteristic B				Characteristic C						
						Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
			A	MW <sup>1)</sup>	d						d					
<b>Miniature circuit breakers 6000 A</b>																
<b>1P, 230/400 V AC</b>																
			0.3	1	--							5SY6114-7		1	1 unit	1AC
			0.5		--							5SY6105-7		1	1 unit	1AC
			1		--							5SY6101-7		1	1 unit	1AC
			1.6		--							5SY6115-7		1	1 unit	1AC
			2		5SY6102-6			1	1 unit	1AB	▶	5SY6102-7		1	1 unit	1AC
			3		--							5SY6103-7		1	1 unit	1AC
			4		5SY6104-6			1	1 unit	1AB	▶	5SY6104-7		1	1 unit	1AC
			5		--							5SY6111-7		1	1 unit	1AC
			6		▶ 5SY6106-6			1	1 unit	1AB	▶	5SY6106-7		1	1 unit	1AC
			8		--							5SY6108-7		1	1 unit	1AC
			10		▶ 5SY6110-6			1	1 unit	1AB	▶	5SY6110-7		1	1 unit	1AC
			13		5SY6113-6			1	1 unit	1AB		5SY6113-7		1	1 unit	1AC
			15		--							5SY6118-7		1	1 unit	1AC
			16		▶ 5SY6116-6			1	1 unit	1AB	▶	5SY6116-7		1	1 unit	1AC
			20		5SY6120-6			1	1 unit	1AB		5SY6120-7		1	1 unit	1AC
			25		5SY6125-6			1	1 unit	1AB		5SY6125-7		1	1 unit	1AC
			30		--							5SY6130-7		1	1 unit	1AC
			32		5SY6132-6			1	1 unit	1AB		5SY6132-7		1	1 unit	1AC
			40		5SY6140-6			1	1 unit	1AB		5SY6140-7		1	1 unit	1AC
			50		5SY6150-6			1	1 unit	1AB		5SY6150-7		1	1 unit	1AC
			63		5SY6163-6			1	1 unit	1AB		5SY6163-7		1	1 unit	1AC
<b>1P+N, 230 V AC</b>																
			0.3	2	--							5SY6514-7		1	1 unit	1AC
			0.5		--							5SY6505-7		1	1 unit	1AC
			1		--							5SY6501-7		1	1 unit	1AC
			1.6		--							5SY6515-7		1	1 unit	1AC
			2		--							5SY6502-7		1	1 unit	1AC
			3		--							5SY6503-7		1	1 unit	1AC
			4		--							5SY6504-7		1	1 unit	1AC
			6		5SY6506-6			1	1 unit	1AB		5SY6506-7		1	1 unit	1AC
			8		--							5SY6508-7		1	1 unit	1AC
			10		5SY6510-6			1	1 unit	1AB		5SY6510-7		1	1 unit	1AC
			13		5SY6513-6			1	1 unit	1AB		5SY6513-7		1	1 unit	1AC
			16		5SY6516-6			1	1 unit	1AB		5SY6516-7		1	1 unit	1AC
			20		5SY6520-6			1	1 unit	1AB		5SY6520-7		1	1 unit	1AC
			25		5SY6525-6			1	1 unit	1AB		5SY6525-7		1	1 unit	1AC
			32		5SY6532-6			1	1 unit	1AB		5SY6532-7		1	1 unit	1AC
			40		5SY6540-6			1	1 unit	1AB		5SY6540-7		1	1 unit	1AC
			50		5SY6550-6			1	1 unit	1AB		5SY6550-7		1	1 unit	1AC
			63		5SY6563-6			1	1 unit	1AB		5SY6563-7		1	1 unit	1AC
<b>2P, 400 V AC</b>																
			0.3	2	--							5SY6214-7		1	1 unit	1AC
			0.5		--							5SY6205-7		1	1 unit	1AC
			1		--							5SY6201-7		1	1 unit	1AC
			1.6		--							5SY6215-7		1	1 unit	1AC
			2		--							5SY6202-7		1	1 unit	1AC
			3		--							5SY6203-7		1	1 unit	1AC
			4		--							5SY6204-7		1	1 unit	1AC
			5		--							5SY6211-7		1	1 unit	1AC
			6		5SY6206-6			1	1 unit	1AB	▶	5SY6206-7		1	1 unit	1AC
			8		--							5SY6208-7		1	1 unit	1AC
			10		5SY6210-6			1	1 unit	1AB	▶	5SY6210-7		1	1 unit	1AC
			13		5SY6213-6			1	1 unit	1AB		5SY6213-7		1	1 unit	1AC
			15		--							5SY6218-7		1	1 unit	1AC
			16		5SY6216-6			1	1 unit	1AB	▶	5SY6216-7		1	1 unit	1AC
			20		5SY6220-6			1	1 unit	1AB		5SY6220-7		1	1 unit	1AC
			25		5SY6225-6			1	1 unit	1AB		5SY6225-7		1	1 unit	1AC
			30		--							5SY6230-7		1	1 unit	1AC
			32		5SY6232-6			1	1 unit	1AB		5SY6232-7		1	1 unit	1AC
			40		5SY6240-6			1	1 unit	1AB		5SY6240-7		1	1 unit	1AC
			50		5SY6250-6			1	1 unit	1AB		5SY6250-7		1	1 unit	1AC
			63		5SY6263-6			1	1 unit	1AB		5SY6263-7		1	1 unit	1AC

<sup>1)</sup> 1 MW (modular width) = 18 mm.

# Miniature Circuit Breakers

## 5SY and 5SP Miniature Circuit Breakers

### 5SY6, 6000 A

6000		I <sub>n</sub>	Mounting width MW <sup>1)</sup>	SD	Characteristic B			PU (UNIT, SET, M)	PS	PG	SD	Characteristic C			
3					Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>	Price per PU	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>					Price per PU	PU (UNIT, SET, M)	PS	PG
		A		d							d				
<b>Miniature circuit breakers 6000 A</b>															
<b>3P, 400 V AC</b>															
		0.3	3	--								5SY6314-7	1	1 unit	1AC
		0.5		--								5SY6305-7	1	1 unit	1AC
		1		--								5SY6301-7	1	1 unit	1AC
		1.6		--								5SY6315-7	1	1 unit	1AC
		2		--								5SY6302-7	1	1 unit	1AC
		3		--								5SY6303-7	1	1 unit	1AC
		4		--								5SY6304-7	1	1 unit	1AC
		5		--								5SY6311-7	1	1 unit	1AC
		6		5SY6306-6		1	1 unit	1AB	▶			5SY6306-7	1	1 unit	1AC
		8		--								5SY6308-7	1	1 unit	1AC
		10		5SY6310-6		1	1 unit	1AB	▶			5SY6310-7	1	1 unit	1AC
		13		5SY6313-6		1	1 unit	1AB				5SY6313-7	1	1 unit	1AC
		15		--								5SY6318-7	1	1 unit	1AC
		16		▶ 5SY6316-6		1	1 unit	1AB	▶			5SY6316-7	1	1 unit	1AC
		20		5SY6320-6		1	1 unit	1AB				5SY6320-7	1	1 unit	1AC
	25		5SY6325-6		1	1 unit	1AB				5SY6325-7	1	1 unit	1AC	
	30		--								5SY6330-7	1	1 unit	1AC	
	32		5SY6332-6		1	1 unit	1AB	▶			5SY6332-7	1	1 unit	1AC	
	40		5SY6340-6		1	1 unit	1AB				5SY6340-7	1	1 unit	1AC	
	50		5SY6350-6		1	1 unit	1AB				5SY6350-7	1	1 unit	1AC	
	63		5SY6363-6		1	1 unit	1AB				5SY6363-7	1	1 unit	1AC	
<b>3P+N, 400 V AC</b>															
		0.3	4	--								5SY6614-7	1	1 unit	1AC
		0.5		--								5SY6605-7	1	1 unit	1AC
		1		--								5SY6601-7	1	1 unit	1AC
		1.6		--								5SY6615-7	1	1 unit	1AC
		2		--								5SY6602-7	1	1 unit	1AC
		3		--								5SY6603-7	1	1 unit	1AC
		4		--								5SY6604-7	1	1 unit	1AC
		6		5SY6606-6		1	1 unit	1AB				5SY6606-7	1	1 unit	1AC
		8		--								5SY6608-7	1	1 unit	1AC
		10		5SY6610-6		1	1 unit	1AB				5SY6610-7	1	1 unit	1AC
		13		5SY6613-6		1	1 unit	1AB				5SY6613-7	1	1 unit	1AC
		16		5SY6616-6		1	1 unit	1AB				5SY6616-7	1	1 unit	1AC
		20		5SY6620-6		1	1 unit	1AB				5SY6620-7	1	1 unit	1AC
		25		5SY6625-6		1	1 unit	1AB				5SY6625-7	1	1 unit	1AC
		32		5SY6632-6		1	1 unit	1AB				5SY6632-7	1	1 unit	1AC
	40		5SY6640-6		1	1 unit	1AB				5SY6640-7	1	1 unit	1AC	
	50		5SY6650-6		1	1 unit	1AB				5SY6650-7	1	1 unit	1AC	
	63		5SY6663-6		1	1 unit	1AB				5SY6663-7	1	1 unit	1AC	
<b>4P, 400 V AC</b>															
		0.3	4	--								5SY6414-7	1	1 unit	1AC
		0.5		--								5SY6405-7	1	1 unit	1AC
		1		--								5SY6401-7	1	1 unit	1AC
		1.6		--								5SY6415-7	1	1 unit	1AC
		2		--								5SY6402-7	1	1 unit	1AC
		3		--								5SY6403-7	1	1 unit	1AC
		4		--								5SY6404-7	1	1 unit	1AC
		6		5SY6406-6		1	1 unit	1AB				5SY6406-7	1	1 unit	1AC
		8		--								5SY6408-7	1	1 unit	1AC
		10		5SY6410-6		1	1 unit	1AB				5SY6410-7	1	1 unit	1AC
		13		5SY6413-6		1	1 unit	1AB				5SY6413-7	1	1 unit	1AC
		16		5SY6416-6		1	1 unit	1AB				5SY6416-7	1	1 unit	1AC
		20		5SY6420-6		1	1 unit	1AB				5SY6420-7	1	1 unit	1AC
		25		5SY6425-6		1	1 unit	1AB				5SY6425-7	1	1 unit	1AC
		32		5SY6432-6		1	1 unit	1AB				5SY6432-7	1	1 unit	1AC
	40		5SY6440-6		1	1 unit	1AB				5SY6440-7	1	1 unit	1AC	
	50		5SY6450-6		1	1 unit	1AB				5SY6450-7	1	1 unit	1AC	
	63		5SY6463-6		1	1 unit	1AB				5SY6463-7	1	1 unit	1AC	

<sup>1)</sup> 1 MW (modular width) = 18 mm.







# Miniature Circuit Breakers

## 5SY and 5SP Miniature Circuit Breakers

5SY4, 10000 A

## Selection and ordering data





10000 3			$I_n$	Mounting width	SD	Characteristic A					Characteristic B					
						Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
			A	MW <sup>1)</sup>	d											
<b>Miniature circuit breakers 10000 A</b>																
<b>1P, 230/400 V AC</b>																
			0.5	1		5SY4105-5		1	1 unit	1AA		--				
			1			5SY4101-5		1	1 unit	1AA		--				
			1.6			5SY4115-5		1	1 unit	1AA		--				
			2			5SY4102-5		1	1 unit	1AA		5SY4102-6		1	1 unit	1AB
			3			5SY4103-5		1	1 unit	1AA		--				
			4			5SY4104-5		1	1 unit	1AA		5SY4104-6		1	1 unit	1AB
			6			5SY4106-5		1	1 unit	1AA ▶		5SY4106-6		1	1 unit	1AB
			8			5SY4108-5		1	1 unit	1AA		--				
			10			5SY4110-5		1	1 unit	1AA ▶		5SY4110-6		1	1 unit	1AB
			13			5SY4113-5		1	1 unit	1AA		5SY4113-6		1	1 unit	1AB
			16			5SY4116-5		1	1 unit	1AA ▶		5SY4116-6		1	1 unit	1AB
			20			5SY4120-5		1	1 unit	1AA		5SY4120-6		1	1 unit	1AB
			25			5SY4125-5		1	1 unit	1AA		5SY4125-6		1	1 unit	1AB
			32			5SY4132-5		1	1 unit	1AA		5SY4132-6		1	1 unit	1AB
			40			5SY4140-5		1	1 unit	1AA		5SY4140-6		1	1 unit	1AB
			50			5SY4150-5		1	1 unit	1AA		5SY4150-6		1	1 unit	1AB
			63			5SY4163-5		1	1 unit	1AA		5SY4163-6		1	1 unit	1AB
			80			--						5SY4180-6		1	1 unit	1AB
<b>1P+N, 230 V AC</b>																
			1	2		5SY4501-5		1	1 unit	1AA		--				
			1.6			5SY4515-5		1	1 unit	1AA		--				
			2			5SY4502-5		1	1 unit	1AA		--				
			3			5SY4503-5		1	1 unit	1AA		--				
			4			5SY4504-5		1	1 unit	1AA		--				
			6			5SY4506-5		1	1 unit	1AA		5SY4506-6		1	1 unit	1AB
			8			5SY4508-5		1	1 unit	1AA		--				
			10			5SY4510-5		1	1 unit	1AA		5SY4510-6		1	1 unit	1AB
			13			5SY4513-5		1	1 unit	1AA		5SY4513-6		1	1 unit	1AB
			16			5SY4516-5		1	1 unit	1AA		5SY4516-6		1	1 unit	1AB
			20			5SY4520-5		1	1 unit	1AA		5SY4520-6		1	1 unit	1AB
			25			5SY4525-5		1	1 unit	1AA		5SY4525-6		1	1 unit	1AB
			32			5SY4532-5		1	1 unit	1AA		5SY4532-6		1	1 unit	1AB
			40			5SY4540-5		1	1 unit	1AA		5SY4540-6		1	1 unit	1AB
			50			5SY4550-5		1	1 unit	1AA		5SY4550-6		1	1 unit	1AB
			63			5SY4563-5		1	1 unit	1AA		5SY4563-6		1	1 unit	1AB
<b>2P, 400 V AC</b>																
			0.5	2		5SY4205-5		1	1 unit	1AA		--				
			1			5SY4201-5		1	1 unit	1AA		--				
			1.6			5SY4215-5		1	1 unit	1AA		--				
			2			5SY4202-5		1	1 unit	1AA		--				
			3			5SY4203-5		1	1 unit	1AA		--				
			4			5SY4204-5		1	1 unit	1AA		--				
			6			5SY4206-5		1	1 unit	1AA		5SY4206-6		1	1 unit	1AB
			8			5SY4208-5		1	1 unit	1AA		--				
			10			5SY4210-5		1	1 unit	1AA		5SY4210-6		1	1 unit	1AB
			13			5SY4213-5		1	1 unit	1AA		5SY4213-6		1	1 unit	1AB
			16			5SY4216-5		1	1 unit	1AA		5SY4216-6		1	1 unit	1AB
			20			5SY4220-5		1	1 unit	1AA		5SY4220-6		1	1 unit	1AB
			25			5SY4225-5		1	1 unit	1AA		5SY4225-6		1	1 unit	1AB
			32			5SY4232-5		1	1 unit	1AA		5SY4232-6		1	1 unit	1AB
			40			5SY4240-5		1	1 unit	1AA		5SY4240-6		1	1 unit	1AB
			50			5SY4250-5		1	1 unit	1AA		5SY4250-6		1	1 unit	1AB
			63			5SY4263-5		1	1 unit	1AA		5SY4263-6		1	1 unit	1AB
			80			--						5SY4280-6		1	1 unit	1AB

1) 1 MW (modular width) = 18 mm.

## Miniature Circuit Breakers

### 5SY and 5SP Miniature Circuit Breakers

#### 5SY4, 10000 A




10000 3			$I_n$	Mounting width	SD	Characteristic A				Characteristic B						
			A	MW <sup>1)</sup>	d	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Miniature circuit breakers 10000 A</b>																
<b>3P, 400 V AC</b>																
	0.5	3				<b>5SY4305-5</b>		1	1 unit	1AA		--				
	1					<b>5SY4301-5</b>		1	1 unit	1AA		--				
	1.6					<b>5SY4315-5</b>		1	1 unit	1AA		--				
	2					<b>5SY4302-5</b>		1	1 unit	1AA		--				
	3					<b>5SY4303-5</b>		1	1 unit	1AA		--				
	4					<b>5SY4304-5</b>		1	1 unit	1AA		--				
	6					<b>5SY4306-5</b>		1	1 unit	1AA		<b>5SY4306-6</b>		1	1 unit	1AB
	8					<b>5SY4308-5</b>		1	1 unit	1AA		--				
	10					<b>5SY4310-5</b>		1	1 unit	1AA		<b>5SY4310-6</b>		1	1 unit	1AB
	13					<b>5SY4313-5</b>		1	1 unit	1AA		<b>5SY4313-6</b>		1	1 unit	1AB
	16					<b>5SY4316-5</b>		1	1 unit	1AA		<b>5SY4316-6</b>		1	1 unit	1AB
	20					<b>5SY4320-5</b>		1	1 unit	1AA		<b>5SY4320-6</b>		1	1 unit	1AB
	25					<b>5SY4325-5</b>		1	1 unit	1AA		<b>5SY4325-6</b>		1	1 unit	1AB
	32					<b>5SY4332-5</b>		1	1 unit	1AA		<b>5SY4332-6</b>		1	1 unit	1AB
40					<b>5SY4340-5</b>		1	1 unit	1AA		<b>5SY4340-6</b>		1	1 unit	1AB	
50					<b>5SY4350-5</b>		1	1 unit	1AA		<b>5SY4350-6</b>		1	1 unit	1AB	
63					<b>5SY4363-5</b>		1	1 unit	1AA		<b>5SY4363-6</b>		1	1 unit	1AB	
80					--			1	1 unit	1AA		<b>5SY4380-6</b>		1	1 unit	1AB
<b>3P+N, 400 V AC</b>																
	1	4				<b>5SY4601-5</b>		1	1 unit	1AA		--				
	1.6					<b>5SY4615-5</b>		1	1 unit	1AA		--				
	2					<b>5SY4602-5</b>		1	1 unit	1AA		--				
	3					<b>5SY4603-5</b>		1	1 unit	1AA		--				
	4					<b>5SY4604-5</b>		1	1 unit	1AA		--				
	6					<b>5SY4606-5</b>		1	1 unit	1AA		<b>5SY4606-6</b>		1	1 unit	1AB
	8					<b>5SY4608-5</b>		1	1 unit	1AA		--				
	10					<b>5SY4610-5</b>		1	1 unit	1AA		<b>5SY4610-6</b>		1	1 unit	1AB
	13					<b>5SY4613-5</b>		1	1 unit	1AA		<b>5SY4613-6</b>		1	1 unit	1AB
	16					<b>5SY4616-5</b>		1	1 unit	1AA		<b>5SY4616-6</b>		1	1 unit	1AB
	20					<b>5SY4620-5</b>		1	1 unit	1AA		<b>5SY4620-6</b>		1	1 unit	1AB
	25					<b>5SY4625-5</b>		1	1 unit	1AA		<b>5SY4625-6</b>		1	1 unit	1AB
	32					<b>5SY4632-5</b>		1	1 unit	1AA		<b>5SY4632-6</b>		1	1 unit	1AB
	40					<b>5SY4640-5</b>		1	1 unit	1AA		<b>5SY4640-6</b>		1	1 unit	1AB
50					<b>5SY4650-5</b>		1	1 unit	1AA		<b>5SY4650-6</b>		1	1 unit	1AB	
63					<b>5SY4663-5</b>		1	1 unit	1AA		<b>5SY4663-6</b>		1	1 unit	1AB	
<b>4P, 400 V AC</b>																
	1	4				<b>5SY4401-5</b>		1	1 unit	1AA		--				
	1.6					<b>5SY4415-5</b>		1	1 unit	1AA		--				
	2					<b>5SY4402-5</b>		1	1 unit	1AA		--				
	3					<b>5SY4403-5</b>		1	1 unit	1AA		--				
	4					<b>5SY4404-5</b>		1	1 unit	1AA		--				
	6					<b>5SY4406-5</b>		1	1 unit	1AA		<b>5SY4406-6</b>		1	1 unit	1AB
	8					<b>5SY4408-5</b>		1	1 unit	1AA		--				
	10					<b>5SY4410-5</b>		1	1 unit	1AA		<b>5SY4410-6</b>		1	1 unit	1AB
	13					<b>5SY4413-5</b>		1	1 unit	1AA		<b>5SY4413-6</b>		1	1 unit	1AB
	16					<b>5SY4416-5</b>		1	1 unit	1AA		<b>5SY4416-6</b>		1	1 unit	1AB
	20					<b>5SY4420-5</b>		1	1 unit	1AA		<b>5SY4420-6</b>		1	1 unit	1AB
	25					<b>5SY4425-5</b>		1	1 unit	1AA		<b>5SY4425-6</b>		1	1 unit	1AB
	32					<b>5SY4432-5</b>		1	1 unit	1AA		<b>5SY4432-6</b>		1	1 unit	1AB
	40					<b>5SY4440-5</b>		1	1 unit	1AA		<b>5SY4440-6</b>		1	1 unit	1AB
50					<b>5SY4450-5</b>		1	1 unit	1AA		<b>5SY4450-6</b>		1	1 unit	1AB	
63					<b>5SY4463-5</b>		1	1 unit	1AA		<b>5SY4463-6</b>		1	1 unit	1AB	
80					--			1	1 unit	1AA		<b>5SY4480-6</b>		1	1 unit	1AB

<sup>1)</sup> 1 MW (modular width) = 18 mm.

## Miniature Circuit Breakers

### 5SY and 5SP Miniature Circuit Breakers

**5SY4, 10000 A**



10000 3			$I_n$	Mounting width	SD	<b>Characteristic C</b>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	<b>Characteristic D</b>	Price per PU	PU (UNIT, SET, M)	PS	PG
			A	MW <sup>1)</sup>	d	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>					d	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>				
<b>Miniature circuit breakers 10000 A</b>																
		<b>1P, 230/400 V AC</b>														
	0.3	1				<b>5SY4114-7</b>		1	1 unit	1AC		<b>5SY4114-8</b>		1	1 unit	1AA
	0.5					<b>5SY4105-7</b>		1	1 unit	1AC		<b>5SY4105-8</b>		1	1 unit	1AA
	1					<b>5SY4101-7</b>		1	1 unit	1AC		<b>5SY4101-8</b>		1	1 unit	1AA
	1.6					<b>5SY4115-7</b>		1	1 unit	1AC		<b>5SY4115-8</b>		1	1 unit	1AA
	2				▶	<b>5SY4102-7</b>		1	1 unit	1AC		<b>5SY4102-8</b>		1	1 unit	1AA
	3					<b>5SY4103-7</b>		1	1 unit	1AC		<b>5SY4103-8</b>		1	1 unit	1AA
	4				▶	<b>5SY4104-7</b>		1	1 unit	1AC		<b>5SY4104-8</b>		1	1 unit	1AA
	5					<b>5SY4111-7</b>		1	1 unit	1AC		--				
	6				▶	<b>5SY4106-7</b>		1	1 unit	1AC		<b>5SY4106-8</b>		1	1 unit	1AA
	8					<b>5SY4108-7</b>		1	1 unit	1AC		<b>5SY4108-8</b>		1	1 unit	1AA
	10				▶	<b>5SY4110-7</b>		1	1 unit	1AC		<b>5SY4110-8</b>		1	1 unit	1AA
	13					<b>5SY4113-7</b>		1	1 unit	1AC		<b>5SY4113-8</b>		1	1 unit	1AA
	15					<b>5SY4118-7</b>		1	1 unit	1AC		--				
	16				▶	<b>5SY4116-7</b>		1	1 unit	1AC		<b>5SY4116-8</b>		1	1 unit	1AA
	20					<b>5SY4120-7</b>		1	1 unit	1AC		<b>5SY4120-8</b>		1	1 unit	1AA
	25					<b>5SY4125-7</b>		1	1 unit	1AC		<b>5SY4125-8</b>		1	1 unit	1AA
	30					<b>5SY4130-7</b>		1	1 unit	1AC		--				
	32					<b>5SY4132-7</b>		1	1 unit	1AC		<b>5SY4132-8</b>		1	1 unit	1AA
	35					<b>5SY4135-7</b>		1	1 unit	1AC		--				
	40					<b>5SY4140-7</b>		1	1 unit	1AC		<b>5SY4140-8</b>		1	1 unit	1AA
	45					<b>5SY4145-7</b>		1	1 unit	1AC		--				
	50					<b>5SY4150-7</b>		1	1 unit	1AC		<b>5SY4150-8</b>		1	1 unit	1AA
	60					<b>5SY4160-7</b>		1	1 unit	1AC		--				
	63					<b>5SY4163-7</b>		1	1 unit	1AC		<b>5SY4163-8</b>		1	1 unit	1AA
	80					<b>5SY4180-7</b>		1	1 unit	1AC		--				
		<b>1P+N, 230 V AC</b>														
	0.3	2				<b>5SY4514-7</b>		1	1 unit	1AC		<b>5SY4514-8</b>		1	1 unit	1AA
	0.5					<b>5SY4505-7</b>		1	1 unit	1AC		<b>5SY4505-8</b>		1	1 unit	1AA
	1					<b>5SY4501-7</b>		1	1 unit	1AC		<b>5SY4501-8</b>		1	1 unit	1AA
	1.6					<b>5SY4515-7</b>		1	1 unit	1AC		<b>5SY4515-8</b>		1	1 unit	1AA
	2					<b>5SY4502-7</b>		1	1 unit	1AC		<b>5SY4502-8</b>		1	1 unit	1AA
	3					<b>5SY4503-7</b>		1	1 unit	1AC		<b>5SY4503-8</b>		1	1 unit	1AA
	4					<b>5SY4504-7</b>		1	1 unit	1AC		<b>5SY4504-8</b>		1	1 unit	1AA
	6					<b>5SY4506-7</b>		1	1 unit	1AC		<b>5SY4506-8</b>		1	1 unit	1AA
	8					<b>5SY4508-7</b>		1	1 unit	1AC		<b>5SY4508-8</b>		1	1 unit	1AA
	10					<b>5SY4510-7</b>		1	1 unit	1AC		<b>5SY4510-8</b>		1	1 unit	1AA
	13					<b>5SY4513-7</b>		1	1 unit	1AC		<b>5SY4513-8</b>		1	1 unit	1AA
	16					<b>5SY4516-7</b>		1	1 unit	1AC		<b>5SY4516-8</b>		1	1 unit	1AA
	20					<b>5SY4520-7</b>		1	1 unit	1AC		<b>5SY4520-8</b>		1	1 unit	1AA
	25					<b>5SY4525-7</b>		1	1 unit	1AC		<b>5SY4525-8</b>		1	1 unit	1AA
	32					<b>5SY4532-7</b>		1	1 unit	1AC		<b>5SY4532-8</b>		1	1 unit	1AA
	40					<b>5SY4540-7</b>		1	1 unit	1AC		<b>5SY4540-8</b>		1	1 unit	1AA
	50					<b>5SY4550-7</b>		1	1 unit	1AC		<b>5SY4550-8</b>		1	1 unit	1AA
	63					<b>5SY4563-7</b>		1	1 unit	1AC		<b>5SY4563-8</b>		1	1 unit	1AA
	80					<b>5SY4580-7</b>		1	1 unit	1AC		--				

3


## Miniature Circuit Breakers

### 5SY and 5SP Miniature Circuit Breakers

#### 5SY4, 10000 A

10000 3		$I_n$	Mounting width	SD	Characteristic C				Characteristic D						
					Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
		A	MW <sup>1)</sup>	d											
		<b>2P, 400 V AC</b>													
		0.3	2		<b>5SY4214-7</b>		1	1 unit	1AC		<b>5SY4214-8</b>		1	1 unit	1AA
		0.5			<b>5SY4205-7</b>		1	1 unit	1AC		<b>5SY4205-8</b>		1	1 unit	1AA
		1			<b>5SY4201-7</b>		1	1 unit	1AC		<b>5SY4201-8</b>		1	1 unit	1AA
		1.6			<b>5SY4215-7</b>		1	1 unit	1AC		<b>5SY4215-8</b>		1	1 unit	1AA
		2		▶	<b>5SY4202-7</b>		1	1 unit	1AC		<b>5SY4202-8</b>		1	1 unit	1AA
		3			<b>5SY4203-7</b>		1	1 unit	1AC		<b>5SY4203-8</b>		1	1 unit	1AA
		4			<b>5SY4204-7</b>		1	1 unit	1AC		<b>5SY4204-8</b>		1	1 unit	1AA
		5			<b>5SY4211-7</b>		1	1 unit	1AC		--				
		6		▶	<b>5SY4206-7</b>		1	1 unit	1AC		<b>5SY4206-8</b>		1	1 unit	1AA
		8			<b>5SY4208-7</b>		1	1 unit	1AC		<b>5SY4208-8</b>		1	1 unit	1AA
		10		▶	<b>5SY4210-7</b>		1	1 unit	1AC		<b>5SY4210-8</b>		1	1 unit	1AA
		13			<b>5SY4213-7</b>		1	1 unit	1AC		<b>5SY4213-8</b>		1	1 unit	1AA
		15			<b>5SY4218-7</b>		1	1 unit	1AC		--				
		16		▶	<b>5SY4216-7</b>		1	1 unit	1AC		<b>5SY4216-8</b>		1	1 unit	1AA
		20			<b>5SY4220-7</b>		1	1 unit	1AC		<b>5SY4220-8</b>		1	1 unit	1AA
		25			<b>5SY4225-7</b>		1	1 unit	1AC		<b>5SY4225-8</b>		1	1 unit	1AA
		30			<b>5SY4230-7</b>		1	1 unit	1AC		--				
32			<b>5SY4232-7</b>		1	1 unit	1AC		<b>5SY4232-8</b>		1	1 unit	1AA		
35			<b>5SY4235-7</b>		1	1 unit	1AC		--						
40			<b>5SY4240-7</b>		1	1 unit	1AC		<b>5SY4240-8</b>		1	1 unit	1AA		
45			<b>5SY4245-7</b>		1	1 unit	1AC		--						
50			<b>5SY4250-7</b>		1	1 unit	1AC		<b>5SY4250-8</b>		1	1 unit	1AA		
60			<b>5SY4260-7</b>		1	1 unit	1AC		--						
63			<b>5SY4263-7</b>		1	1 unit	1AC		<b>5SY4263-8</b>		1	1 unit	1AA		
80			<b>5SY4280-7</b>		1	1 unit	1AC		--						

#### Miniature circuit breakers 10000 A



		<b>3P, 400 V AC</b>													
		0.3	3		<b>5SY4314-7</b>		1	1 unit	1AC		<b>5SY4314-8</b>		1	1 unit	1AA
		0.5			<b>5SY4305-7</b>		1	1 unit	1AC		<b>5SY4305-8</b>		1	1 unit	1AA
		1			<b>5SY4301-7</b>		1	1 unit	1AC		<b>5SY4301-8</b>		1	1 unit	1AA
		1.6			<b>5SY4315-7</b>		1	1 unit	1AC		<b>5SY4315-8</b>		1	1 unit	1AA
		2			<b>5SY4302-7</b>		1	1 unit	1AC		<b>5SY4302-8</b>		1	1 unit	1AA
		3			<b>5SY4303-7</b>		1	1 unit	1AC		<b>5SY4303-8</b>		1	1 unit	1AA
		4			<b>5SY4304-7</b>		1	1 unit	1AC		<b>5SY4304-8</b>		1	1 unit	1AA
		5			<b>5SY4311-7</b>		1	1 unit	1AC		--				
		6			<b>5SY4306-7</b>		1	1 unit	1AC		<b>5SY4306-8</b>		1	1 unit	1AA
		8			<b>5SY4308-7</b>		1	1 unit	1AC		<b>5SY4308-8</b>		1	1 unit	1AA
		10		▶	<b>5SY4310-7</b>		1	1 unit	1AC		<b>5SY4310-8</b>		1	1 unit	1AA
		13			<b>5SY4313-7</b>		1	1 unit	1AC		<b>5SY4313-8</b>		1	1 unit	1AA
		15			<b>5SY4318-7</b>		1	1 unit	1AC		--				
		16		▶	<b>5SY4316-7</b>		1	1 unit	1AC		<b>5SY4316-8</b>		1	1 unit	1AA
		20			<b>5SY4320-7</b>		1	1 unit	1AC		<b>5SY4320-8</b>		1	1 unit	1AA
		25			<b>5SY4325-7</b>		1	1 unit	1AC		<b>5SY4325-8</b>		1	1 unit	1AA
		30			<b>5SY4330-7</b>		1	1 unit	1AC		--				
32		▶	<b>5SY4332-7</b>		1	1 unit	1AC		<b>5SY4332-8</b>		1	1 unit	1AA		
35			<b>5SY4335-7</b>		1	1 unit	1AC		--						
40			<b>5SY4340-7</b>		1	1 unit	1AC		<b>5SY4340-8</b>		1	1 unit	1AA		
45			<b>5SY4345-7</b>		1	1 unit	1AC		--						
50			<b>5SY4350-7</b>		1	1 unit	1AC		<b>5SY4350-8</b>		1	1 unit	1AA		
60			<b>5SY4360-7</b>		1	1 unit	1AC		--						
63			<b>5SY4363-7</b>		1	1 unit	1AC		<b>5SY4363-8</b>		1	1 unit	1AA		
80			<b>5SY4380-7</b>		1	1 unit	1AC		--						

<sup>1)</sup> 1 MW (modular width) = 18 mm.

## Miniature Circuit Breakers

### 5SY and 5SP Miniature Circuit Breakers

5SY4, 10000 A

10000 3	DVE	$I_n$	Mounting width	SD	Characteristic C				Characteristic D						
					Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
		A	MW <sup>1)</sup>	d											
		<b>3P+N, 400 V AC</b>													
		0.3	4		<b>5SY4614-7</b>		1	1 unit	1AC		<b>5SY4614-8</b>		1	1 unit	1AA
		0.5			<b>5SY4605-7</b>		1	1 unit	1AC		<b>5SY4605-8</b>		1	1 unit	1AA
		1			<b>5SY4601-7</b>		1	1 unit	1AC		<b>5SY4601-8</b>		1	1 unit	1AA
		1.6			<b>5SY4615-7</b>		1	1 unit	1AC		<b>5SY4615-8</b>		1	1 unit	1AA
		2			<b>5SY4602-7</b>		1	1 unit	1AC		<b>5SY4602-8</b>		1	1 unit	1AA
		3			<b>5SY4603-7</b>		1	1 unit	1AC		<b>5SY4603-8</b>		1	1 unit	1AA
		4			<b>5SY4604-7</b>		1	1 unit	1AC		<b>5SY4604-8</b>		1	1 unit	1AA
		6			<b>5SY4606-7</b>		1	1 unit	1AC		<b>5SY4606-8</b>		1	1 unit	1AA
		8			<b>5SY4608-7</b>		1	1 unit	1AC		<b>5SY4608-8</b>		1	1 unit	1AA
		10			<b>5SY4610-7</b>		1	1 unit	1AC		<b>5SY4610-8</b>		1	1 unit	1AA
		13			<b>5SY4613-7</b>		1	1 unit	1AC		<b>5SY4613-8</b>		1	1 unit	1AA
		16			<b>5SY4616-7</b>		1	1 unit	1AC		<b>5SY4616-8</b>		1	1 unit	1AA
		20			<b>5SY4620-7</b>		1	1 unit	1AC		<b>5SY4620-8</b>		1	1 unit	1AA
		25			<b>5SY4625-7</b>		1	1 unit	1AC		<b>5SY4625-8</b>		1	1 unit	1AA
		32			<b>5SY4632-7</b>		1	1 unit	1AC		<b>5SY4632-8</b>		1	1 unit	1AA
		40			<b>5SY4640-7</b>		1	1 unit	1AC		<b>5SY4640-8</b>		1	1 unit	1AA
50			<b>5SY4650-7</b>		1	1 unit	1AC		<b>5SY4650-8</b>		1	1 unit	1AA		
63			<b>5SY4663-7</b>		1	1 unit	1AC		<b>5SY4663-8</b>		1	1 unit	1AA		
80			<b>5SY4680-7</b>		1	1 unit	1AC		--						
		<b>4P, 400 V AC</b>													
		0.3	4		<b>5SY4414-7</b>		1	1 unit	1AC		<b>5SY4414-8</b>		1	1 unit	1AA
		0.5			<b>5SY4405-7</b>		1	1 unit	1AC		<b>5SY4405-8</b>		1	1 unit	1AA
		1			<b>5SY4401-7</b>		1	1 unit	1AC		<b>5SY4401-8</b>		1	1 unit	1AA
		1.6			<b>5SY4415-7</b>		1	1 unit	1AC		<b>5SY4415-8</b>		1	1 unit	1AA
		2			<b>5SY4402-7</b>		1	1 unit	1AC		<b>5SY4402-8</b>		1	1 unit	1AA
		3			<b>5SY4403-7</b>		1	1 unit	1AC		<b>5SY4403-8</b>		1	1 unit	1AA
		4			<b>5SY4404-7</b>		1	1 unit	1AC		<b>5SY4404-8</b>		1	1 unit	1AA
		6			<b>5SY4406-7</b>		1	1 unit	1AC		<b>5SY4406-8</b>		1	1 unit	1AA
		8			<b>5SY4408-7</b>		1	1 unit	1AC		<b>5SY4408-8</b>		1	1 unit	1AA
		10			<b>5SY4410-7</b>		1	1 unit	1AC		<b>5SY4410-8</b>		1	1 unit	1AA
		13			<b>5SY4413-7</b>		1	1 unit	1AC		<b>5SY4413-8</b>		1	1 unit	1AA
		16			<b>5SY4416-7</b>		1	1 unit	1AC		<b>5SY4416-8</b>		1	1 unit	1AA
		20			<b>5SY4420-7</b>		1	1 unit	1AC		<b>5SY4420-8</b>		1	1 unit	1AA
		25			<b>5SY4425-7</b>		1	1 unit	1AC		<b>5SY4425-8</b>		1	1 unit	1AA
		32			<b>5SY4432-7</b>		1	1 unit	1AC		<b>5SY4432-8</b>		1	1 unit	1AA
		40			<b>5SY4440-7</b>		1	1 unit	1AC		<b>5SY4440-8</b>		1	1 unit	1AA
50			<b>5SY4450-7</b>		1	1 unit	1AC		<b>5SY4450-8</b>		1	1 unit	1AA		
63			<b>5SY4463-7</b>		1	1 unit	1AC		<b>5SY4463-8</b>		1	1 unit	1AA		
80			<b>5SY4480-7</b>		1	1 unit	1AC		--						

<sup>1)</sup> 1 MW (modular width) = 18 mm.





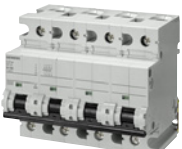







## Miniature Circuit Breakers

### 5SY and 5SP Miniature Circuit Breakers

#### 5SP4, high-current, 10000 A

#### Selection and ordering data

10000		$I_n$	Mounting width	SD	Characteristic B	Price per PU	PU (UNIT, SET, M)	PS	PG
A	MW <sup>1)</sup>	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>						
<b>Miniature circuit breakers 10000 A, high-current</b>									
<b>1P, 230/400 V AC</b>									
		80	1.5		<b>5SP4180-6</b>		1	1 unit	1AB
		100			<b>5SP4191-6</b>		1	1 unit	1AB
		125			<b>5SP4192-6</b>		1	1 unit	1AB
<b>2P, 400 V AC</b>									
		80	3		<b>5SP4280-6</b>		1	1 unit	1AB
		100			<b>5SP4291-6</b>		1	1 unit	1AB
		125			<b>5SP4292-6</b>		1	1 unit	1AB
<b>3P, 400 V AC</b>									
		80	4.5		<b>5SP4380-6</b>		1	1 unit	1AB
		100			<b>5SP4391-6</b>		1	1 unit	1AB
		125			<b>5SP4392-6</b>		1	1 unit	1AB
<b>4P, 400 V AC</b>									
		80	6		<b>5SP4480-6</b>		1	1 unit	1AB
		100			<b>5SP4491-6</b>		1	1 unit	1AB
		125			<b>5SP4492-6</b>		1	1 unit	1AB

10000		$I_n$	Mounting width	SD	Characteristic C	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Characteristic D	Price per PU	PU (UNIT, SET, M)	PS	PG
A	MW <sup>1)</sup>	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>							d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>				
<b>Miniature circuit breakers 10000 A, high-current</b>															
<b>1P, 230/400 V AC</b>															
		80	1.5		<b>5SP4180-7</b>		1	1 unit	1AC		<b>5SP4180-8</b>		1	1 unit	1AA
		100			<b>5SP4191-7</b>		1	1 unit	1AC		<b>5SP4191-8</b>		1	1 unit	1AA
		125			<b>5SP4192-7</b>		1	1 unit	1AC		--				
<b>2P, 400 V AC</b>															
		80	3		<b>5SP4280-7</b>		1	1 unit	1AC		<b>5SP4280-8</b>		1	1 unit	1AA
		100			<b>5SP4291-7</b>		1	1 unit	1AC		<b>5SP4291-8</b>		1	1 unit	1AA
		125			<b>5SP4292-7</b>		1	1 unit	1AC		--				
<b>3P, 400 V AC</b>															
		80	4.5		<b>5SP4380-7</b>		1	1 unit	1AC		<b>5SP4380-8</b>		1	1 unit	1AA
		100			<b>5SP4391-7</b>		1	1 unit	1AC		<b>5SP4391-8</b>		1	1 unit	1AA
		125			<b>5SP4392-7</b>		1	1 unit	1AC		--				
<b>4P, 400 V AC</b>															
		80	6		<b>5SP4480-7</b>		1	1 unit	1AC		<b>5SP4480-8</b>		1	1 unit	1AA
		100			<b>5SP4491-7</b>		1	1 unit	1AC		<b>5SP4491-8</b>		1	1 unit	1AA
		125			<b>5SP4492-7</b>		1	1 unit	1AC		--				



<sup>1)</sup> 1 MW (modular width) = 18 mm.

## Miniature Circuit Breakers

### 5SY and 5SP Miniature Circuit Breakers

5SY5, universal current, 10000 A

#### Selection and ordering data

10000 3 D/E	$I_n$ A	Mounting width MW <sup>1)</sup>	SD d	Characteristic B				Characteristic C				
				Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)
<b>Miniature circuit breakers 10000 A, universal current</b>												
	<b>1P, 230/400 V AC, 220 V DC</b>											
	0.3	1	--									
	0.5		--									
	1		--									
	1.6		--									
	2		5SY5102-6			1	1 unit	1AB				
	3		--									
	4		5SY5104-6			1	1 unit	1AB				
	6		5SY5106-6			1	1 unit	1AB				
	8		--									
	10		5SY5110-6			1	1 unit	1AB				
	13		5SY5113-6			1	1 unit	1AB				
	16		5SY5116-6			1	1 unit	1AB				
	20		5SY5120-6			1	1 unit	1AB				
	25		5SY5125-6			1	1 unit	1AB				
	32		5SY5132-6			1	1 unit	1AB				
40		5SY5140-6			1	1 unit	1AB					
50		5SY5150-6			1	1 unit	1AB					
63		5SY5163-6			1	1 unit	1AB					
	<b>2P, 400 V AC, 440 V DC</b>											
	0.3	2	--									
	0.5		--									
	1		--									
	1.6		--									
	2		--									
	3		--									
	4		--									
	6		5SY5206-6			1	1 unit	1AB				
	8		--									
	10		5SY5210-6			1	1 unit	1AB				
	13		5SY5213-6			1	1 unit	1AB				
	16		5SY5216-6			1	1 unit	1AB				
	20		5SY5220-6			1	1 unit	1AB				
	25		5SY5225-6			1	1 unit	1AB				
	32		5SY5232-6			1	1 unit	1AB				
40		5SY5240-6			1	1 unit	1AB					
50		5SY5250-6			1	1 unit	1AB					
63		5SY5263-6			1	1 unit	1AB					



<sup>1)</sup> 1 MW (modular width) = 18 mm.

For application examples, see Configuration Manual "Miniature Circuit Breakers" ([www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)).

## Miniature Circuit Breakers

### 5SY and 5SP Miniature Circuit Breakers

#### 5SY5, universal current, 10000 A

10000 3			$I_n$	Mounting width	SD	Characteristic B					Characteristic C					
			A	MW <sup>1)</sup>	d	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Miniature circuit breakers 10000 A, universal current</b>																
		<b>4P, 400 V AC, 880 V DC (max. 1000 V DC)</b>		0.3	1	--						<b>5SY5414-7</b>		1	1 unit	1AC
				0.5		--						<b>5SY5405-7</b>		1	1 unit	1AC
				1		--						<b>5SY5401-7</b>		1	1 unit	1AC
				1.6		--						<b>5SY5415-7</b>		1	1 unit	1AC
				2		--						<b>5SY5402-7</b>		1	1 unit	1AC
				3		--						<b>5SY5403-7</b>		1	1 unit	1AC
				4		--						<b>5SY5404-7</b>		1	1 unit	1AC
				6		<b>5SY5406-6</b>			1	1 unit	1AB	<b>5SY5406-7</b>		1	1 unit	1AC
				8		--						<b>5SY5408-7</b>		1	1 unit	1AC
				10		<b>5SY5410-6</b>			1	1 unit	1AB	<b>5SY5410-7</b>		1	1 unit	1AC
				13		<b>5SY5413-6</b>			1	1 unit	1AB	<b>5SY5413-7</b>		1	1 unit	1AC
				16		<b>5SY5416-6</b>			1	1 unit	1AB	<b>5SY5416-7</b>		1	1 unit	1AC
				20		<b>5SY5420-6</b>			1	1 unit	1AB	<b>5SY5420-7</b>		1	1 unit	1AC
				25		<b>5SY5425-6</b>			1	1 unit	1AB	<b>5SY5425-7</b>		1	1 unit	1AC
				32		<b>5SY5432-6</b>			1	1 unit	1AB	<b>5SY5432-7</b>		1	1 unit	1AC
				40		<b>5SY5440-6</b>			1	1 unit	1AB	<b>5SY5440-7</b>		1	1 unit	1AC
				50		<b>5SY5450-6</b>			1	1 unit	1AB	<b>5SY5450-7</b>		1	1 unit	1AC
63		<b>5SY5463-6</b>			1	1 unit	1AB	<b>5SY5463-7</b>		1	1 unit	1AC				

<sup>1)</sup> 1 MW (modular width) = 18 mm.

#### Note:

The 5ST3600 or 5ST3630 busbars enable simple wiring of 4-pole miniature circuit breakers, [see page 3/55](#).








For application examples, [see Configuration Manual "Miniature Circuit Breakers"](#) ([www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)).

## Miniature Circuit Breakers

### 5SY and 5SP Miniature Circuit Breakers

5SY7, 15000 A

## Selection and ordering data





15000		$I_n$	Mounting width	SD	Characteristic B	Price per PU	PU (UNIT, SET, M)	PS	PG
		A	MW <sup>1)</sup>	d	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>				
<b>Miniature circuit breakers 15000 A</b>									
		<b>1P, 230/400 V AC</b>							
		6	1		5SY7106-6		1	1 unit	1AB
		10			5SY7110-6		1	1 unit	1AB
		13			5SY7113-6		1	1 unit	1AB
		16			5SY7116-6		1	1 unit	1AB
		20			5SY7120-6		1	1 unit	1AB
		25			5SY7125-6		1	1 unit	1AB
		32			5SY7132-6		1	1 unit	1AB
		40			5SY7140-6		1	1 unit	1AB
		50			5SY7150-6		1	1 unit	1AB
		63			5SY7163-6		1	1 unit	1AB
		<b>1P+N, 230 V AC</b>							
		6	2		5SY7506-6		1	1 unit	1AB
		10			5SY7510-6		1	1 unit	1AB
		13			5SY7513-6		1	1 unit	1AB
		16			5SY7516-6		1	1 unit	1AB
		20			5SY7520-6		1	1 unit	1AB
		25			5SY7525-6		1	1 unit	1AB
		32			5SY7532-6		1	1 unit	1AB
		40			5SY7540-6		1	1 unit	1AB
		50			5SY7550-6		1	1 unit	1AB
		63			5SY7563-6		1	1 unit	1AB
		<b>2P, 400 V AC</b>							
		6	2		5SY7206-6		1	1 unit	1AB
		10			5SY7210-6		1	1 unit	1AB
		13			5SY7213-6		1	1 unit	1AB
		16			5SY7216-6		1	1 unit	1AB
		20			5SY7220-6		1	1 unit	1AB
		25			5SY7225-6		1	1 unit	1AB
		32			5SY7232-6		1	1 unit	1AB
		40			5SY7240-6		1	1 unit	1AB
		50			5SY7250-6		1	1 unit	1AB
		63			5SY7263-6		1	1 unit	1AB
		<b>3P, 400 V AC</b>							
		6	3		5SY7306-6		1	1 unit	1AB
		10			5SY7310-6		1	1 unit	1AB
		13			5SY7313-6		1	1 unit	1AB
		16			5SY7316-6		1	1 unit	1AB
		20			5SY7320-6		1	1 unit	1AB
		25			5SY7325-6		1	1 unit	1AB
		32			5SY7332-6		1	1 unit	1AB
		40			5SY7340-6		1	1 unit	1AB
		50			5SY7350-6		1	1 unit	1AB
		63			5SY7363-6		1	1 unit	1AB
		<b>3P+N, 400 V AC</b>							
		6	4		5SY7606-6		1	1 unit	1AB
		10			5SY7610-6		1	1 unit	1AB
		13			5SY7613-6		1	1 unit	1AB
		16			5SY7616-6		1	1 unit	1AB
		20			5SY7620-6		1	1 unit	1AB
		25			5SY7625-6		1	1 unit	1AB
		32			5SY7632-6		1	1 unit	1AB
		40			5SY7640-6		1	1 unit	1AB
		50			5SY7650-6		1	1 unit	1AB
		63			5SY7663-6		1	1 unit	1AB
		<b>4P, 400 V AC</b>							
		6	4		5SY7406-6		1	1 unit	1AB
		10			5SY7410-6		1	1 unit	1AB
		13			5SY7413-6		1	1 unit	1AB
		16			5SY7416-6		1	1 unit	1AB
		20			5SY7420-6		1	1 unit	1AB
		25			5SY7425-6		1	1 unit	1AB
		32			5SY7432-6		1	1 unit	1AB
		40			5SY7440-6		1	1 unit	1AB
		50			5SY7450-6		1	1 unit	1AB
		63			5SY7463-6		1	1 unit	1AB

1) 1 MW (modular width) = 18 mm.

## Miniature Circuit Breakers

### 5SY and 5SP Miniature Circuit Breakers

#### 5SY7, 15000 A

15000			$I_n$	Mounting width	SD	Characteristic C				Characteristic D						
			A	MW <sup>1)</sup>	d	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Miniature circuit breakers 15000 A</b>																
<b>1P, 230/400 V AC</b>																
			0.3	1		<b>5SY7114-7</b>		1	1 unit	1AC		<b>5SY7114-8</b>		1	1 unit	1AA
			0.5			<b>5SY7105-7</b>		1	1 unit	1AC		<b>5SY7105-8</b>		1	1 unit	1AA
			1			<b>5SY7101-7</b>		1	1 unit	1AC		<b>5SY7101-8</b>		1	1 unit	1AA
			1.6			<b>5SY7115-7</b>		1	1 unit	1AC		<b>5SY7115-8</b>		1	1 unit	1AA
			2			<b>5SY7102-7</b>		1	1 unit	1AC		<b>5SY7102-8</b>		1	1 unit	1AA
			3			<b>5SY7103-7</b>		1	1 unit	1AC		<b>5SY7103-8</b>		1	1 unit	1AA
			4			<b>5SY7104-7</b>		1	1 unit	1AC		<b>5SY7104-8</b>		1	1 unit	1AA
			6			<b>5SY7106-7</b>		1	1 unit	1AC		<b>5SY7106-8</b>		1	1 unit	1AA
			8			<b>5SY7108-7</b>		1	1 unit	1AC		<b>5SY7108-8</b>		1	1 unit	1AA
			10			<b>5SY7110-7</b>		1	1 unit	1AC		<b>5SY7110-8</b>		1	1 unit	1AA
			13			<b>5SY7113-7</b>		1	1 unit	1AC		<b>5SY7113-8</b>		1	1 unit	1AA
			16			<b>5SY7116-7</b>		1	1 unit	1AC		<b>5SY7116-8</b>		1	1 unit	1AA
			20			<b>5SY7120-7</b>		1	1 unit	1AC		<b>5SY7120-8</b>		1	1 unit	1AA
			25			<b>5SY7125-7</b>		1	1 unit	1AC		<b>5SY7125-8</b>		1	1 unit	1AA
			32			<b>5SY7132-7</b>		1	1 unit	1AC		<b>5SY7132-8</b>		1	1 unit	1AA
			40			<b>5SY7140-7</b>		1	1 unit	1AC		<b>5SY7140-8</b>		1	1 unit	1AA
			50			<b>5SY7150-7</b>		1	1 unit	1AC		<b>5SY7150-8</b>		1	1 unit	1AA
			63			<b>5SY7163-7</b>		1	1 unit	1AC		<b>5SY7163-8</b>		1	1 unit	1AA
<b>1P+N, 230 V AC</b>																
			0.3	2		<b>5SY7514-7</b>		1	1 unit	1AC		<b>5SY7514-8</b>		1	1 unit	1AA
			0.5			<b>5SY7505-7</b>		1	1 unit	1AC		<b>5SY7505-8</b>		1	1 unit	1AA
			1			<b>5SY7501-7</b>		1	1 unit	1AC		<b>5SY7501-8</b>		1	1 unit	1AA
			1.6			<b>5SY7515-7</b>		1	1 unit	1AC		<b>5SY7515-8</b>		1	1 unit	1AA
			2			<b>5SY7502-7</b>		1	1 unit	1AC		<b>5SY7502-8</b>		1	1 unit	1AA
			3			<b>5SY7503-7</b>		1	1 unit	1AC		<b>5SY7503-8</b>		1	1 unit	1AA
			4			<b>5SY7504-7</b>		1	1 unit	1AC		<b>5SY7504-8</b>		1	1 unit	1AA
			6			<b>5SY7506-7</b>		1	1 unit	1AC		<b>5SY7506-8</b>		1	1 unit	1AA
			8			<b>5SY7508-7</b>		1	1 unit	1AC		<b>5SY7508-8</b>		1	1 unit	1AA
			10			<b>5SY7510-7</b>		1	1 unit	1AC		<b>5SY7510-8</b>		1	1 unit	1AA
			13			<b>5SY7513-7</b>		1	1 unit	1AC		<b>5SY7513-8</b>		1	1 unit	1AA
			16			<b>5SY7516-7</b>		1	1 unit	1AC		<b>5SY7516-8</b>		1	1 unit	1AA
			20			<b>5SY7520-7</b>		1	1 unit	1AC		<b>5SY7520-8</b>		1	1 unit	1AA
			25			<b>5SY7525-7</b>		1	1 unit	1AC		<b>5SY7525-8</b>		1	1 unit	1AA
			32			<b>5SY7532-7</b>		1	1 unit	1AC		<b>5SY7532-8</b>		1	1 unit	1AA
			40			<b>5SY7540-7</b>		1	1 unit	1AC		<b>5SY7540-8</b>		1	1 unit	1AA
			50			<b>5SY7550-7</b>		1	1 unit	1AC		<b>5SY7550-8</b>		1	1 unit	1AA
			63			<b>5SY7563-7</b>		1	1 unit	1AC		<b>5SY7563-8</b>		1	1 unit	1AA
<b>2P, 400 V AC</b>																
			0.3	2		<b>5SY7214-7</b>		1	1 unit	1AC		<b>5SY7214-8</b>		1	1 unit	1AA
			0.5			<b>5SY7205-7</b>		1	1 unit	1AC		<b>5SY7205-8</b>		1	1 unit	1AA
			1			<b>5SY7201-7</b>		1	1 unit	1AC		<b>5SY7201-8</b>		1	1 unit	1AA
			1.6			<b>5SY7215-7</b>		1	1 unit	1AC		<b>5SY7215-8</b>		1	1 unit	1AA
			2			<b>5SY7202-7</b>		1	1 unit	1AC		<b>5SY7202-8</b>		1	1 unit	1AA
			3			<b>5SY7203-7</b>		1	1 unit	1AC		<b>5SY7203-8</b>		1	1 unit	1AA
			4			<b>5SY7204-7</b>		1	1 unit	1AC		<b>5SY7204-8</b>		1	1 unit	1AA
			6			<b>5SY7206-7</b>		1	1 unit	1AC		<b>5SY7206-8</b>		1	1 unit	1AA
			8			<b>5SY7208-7</b>		1	1 unit	1AC		<b>5SY7208-8</b>		1	1 unit	1AA
			10			<b>5SY7210-7</b>		1	1 unit	1AC		<b>5SY7210-8</b>		1	1 unit	1AA
			13			<b>5SY7213-7</b>		1	1 unit	1AC		<b>5SY7213-8</b>		1	1 unit	1AA
			16			<b>5SY7216-7</b>		1	1 unit	1AC		<b>5SY7216-8</b>		1	1 unit	1AA
			20			<b>5SY7220-7</b>		1	1 unit	1AC		<b>5SY7220-8</b>		1	1 unit	1AA
			25			<b>5SY7225-7</b>		1	1 unit	1AC		<b>5SY7225-8</b>		1	1 unit	1AA
			32			<b>5SY7232-7</b>		1	1 unit	1AC		<b>5SY7232-8</b>		1	1 unit	1AA
			40			<b>5SY7240-7</b>		1	1 unit	1AC		<b>5SY7240-8</b>		1	1 unit	1AA
			50			<b>5SY7250-7</b>		1	1 unit	1AC		<b>5SY7250-8</b>		1	1 unit	1AA
			63			<b>5SY7263-7</b>		1	1 unit	1AC		<b>5SY7263-8</b>		1	1 unit	1AA





<sup>1)</sup> 1 MW (modular width) = 18 mm.



## Miniature Circuit Breakers

### 5SY and 5SP Miniature Circuit Breakers

5SY7, 15000 A

15000		$I_n$	Mounting width	SD	Characteristic C					Characteristic D					
					Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
		A	MW <sup>1)</sup>	d											
<b>Miniature circuit breakers 15000 A</b>															
		<b>3P, 400 V AC</b>													
		0.3	3		5SY7314-7		1	1 unit	1AC		5SY7314-8		1	1 unit	1AA
		0.5			5SY7305-7		1	1 unit	1AC		5SY7305-8		1	1 unit	1AA
		1			5SY7301-7		1	1 unit	1AC		5SY7301-8		1	1 unit	1AA
		1.6			5SY7315-7		1	1 unit	1AC		5SY7315-8		1	1 unit	1AA
		2			5SY7302-7		1	1 unit	1AC		5SY7302-8		1	1 unit	1AA
		3			5SY7303-7		1	1 unit	1AC		5SY7303-8		1	1 unit	1AA
		4			5SY7304-7		1	1 unit	1AC		5SY7304-8		1	1 unit	1AA
		6			5SY7306-7		1	1 unit	1AC		5SY7306-8		1	1 unit	1AA
		8			5SY7308-7		1	1 unit	1AC		5SY7308-8		1	1 unit	1AA
		10			5SY7310-7		1	1 unit	1AC		5SY7310-8		1	1 unit	1AA
		13			5SY7313-7		1	1 unit	1AC		5SY7313-8		1	1 unit	1AA
		16			5SY7316-7		1	1 unit	1AC		5SY7316-8		1	1 unit	1AA
		20			5SY7320-7		1	1 unit	1AC		5SY7320-8		1	1 unit	1AA
		25			5SY7325-7		1	1 unit	1AC		5SY7325-8		1	1 unit	1AA
		32			5SY7332-7		1	1 unit	1AC		5SY7332-8		1	1 unit	1AA
40			5SY7340-7		1	1 unit	1AC		5SY7340-8		1	1 unit	1AA		
50			5SY7350-7		1	1 unit	1AC		5SY7350-8		1	1 unit	1AA		
63			5SY7363-7		1	1 unit	1AC		5SY7363-8		1	1 unit	1AA		
		<b>3P+N, 400 V AC</b>													
		0.3	4		5SY7614-7		1	1 unit	1AC		5SY7614-8		1	1 unit	1AA
		0.5			5SY7605-7		1	1 unit	1AC		5SY7605-8		1	1 unit	1AA
		1			5SY7601-7		1	1 unit	1AC		5SY7601-8		1	1 unit	1AA
		1.6			5SY7615-7		1	1 unit	1AC		5SY7615-8		1	1 unit	1AA
		2			5SY7602-7		1	1 unit	1AC		5SY7602-8		1	1 unit	1AA
		3			5SY7603-7		1	1 unit	1AC		5SY7603-8		1	1 unit	1AA
		4			5SY7604-7		1	1 unit	1AC		5SY7604-8		1	1 unit	1AA
		6			5SY7606-7		1	1 unit	1AC		5SY7606-8		1	1 unit	1AA
		8			5SY7608-7		1	1 unit	1AC		5SY7608-8		1	1 unit	1AA
		10			5SY7610-7		1	1 unit	1AC		5SY7610-8		1	1 unit	1AA
		13			5SY7613-7		1	1 unit	1AC		5SY7613-8		1	1 unit	1AA
		16			5SY7616-7		1	1 unit	1AC		5SY7616-8		1	1 unit	1AA
		20			5SY7620-7		1	1 unit	1AC		5SY7620-8		1	1 unit	1AA
		25			5SY7625-7		1	1 unit	1AC		5SY7625-8		1	1 unit	1AA
		32			5SY7632-7		1	1 unit	1AC		5SY7632-8		1	1 unit	1AA
40			5SY7640-7		1	1 unit	1AC		5SY7640-8		1	1 unit	1AA		
50			5SY7650-7		1	1 unit	1AC		5SY7650-8		1	1 unit	1AA		
63			5SY7663-7		1	1 unit	1AC		5SY7663-8		1	1 unit	1AA		
		<b>4P, 400 V AC</b>													
		0.3	4		5SY7414-7		1	1 unit	1AC		5SY7414-8		1	1 unit	1AA
		0.5			5SY7405-7		1	1 unit	1AC		5SY7405-8		1	1 unit	1AA
		1			5SY7401-7		1	1 unit	1AC		5SY7401-8		1	1 unit	1AA
		1.6			5SY7415-7		1	1 unit	1AC		5SY7415-8		1	1 unit	1AA
		2			5SY7402-7		1	1 unit	1AC		5SY7402-8		1	1 unit	1AA
		3			5SY7403-7		1	1 unit	1AC		5SY7403-8		1	1 unit	1AA
		4			5SY7404-7		1	1 unit	1AC		5SY7404-8		1	1 unit	1AA
		6			5SY7406-7		1	1 unit	1AC		5SY7406-8		1	1 unit	1AA
		8			5SY7408-7		1	1 unit	1AC		5SY7408-8		1	1 unit	1AA
		10			5SY7410-7		1	1 unit	1AC		5SY7410-8		1	1 unit	1AA
		13			5SY7413-7		1	1 unit	1AC		5SY7413-8		1	1 unit	1AA
		16			5SY7416-7		1	1 unit	1AC		5SY7416-8		1	1 unit	1AA
		20			5SY7420-7		1	1 unit	1AC		5SY7420-8		1	1 unit	1AA
		25			5SY7425-7		1	1 unit	1AC		5SY7425-8		1	1 unit	1AA
		32			5SY7432-7		1	1 unit	1AC		5SY7432-8		1	1 unit	1AA
40			5SY7440-7		1	1 unit	1AC		5SY7440-8		1	1 unit	1AA		
50			5SY7450-7		1	1 unit	1AC		5SY7450-8		1	1 unit	1AA		
63			5SY7463-7		1	1 unit	1AC		5SY7463-8		1	1 unit	1AA		




1) 1 MW (modular width) = 18 mm.

# Miniature Circuit Breakers

## 5SY and 5SP Miniature Circuit Breakers

### 5SY8, 25000 A

#### Selection and ordering data




$I_n$	Mounting width	SD	Characteristic C				Characteristic D						
			Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
A	MW <sup>1)</sup>	d											
<b>Miniature circuit breakers 25000 A</b>													
<b>1P, 230/400 V AC</b>													
	0.3	1	<b>5SY8114-7</b>		1	1 unit	1AC		<b>5SY8114-8</b>		1	1 unit	1AA
	0.5		<b>5SY8105-7</b>		1	1 unit	1AC		<b>5SY8105-8</b>		1	1 unit	1AA
	1		<b>5SY8101-7</b>		1	1 unit	1AC		<b>5SY8101-8</b>		1	1 unit	1AA
	1.6		<b>5SY8115-7</b>		1	1 unit	1AC		<b>5SY8115-8</b>		1	1 unit	1AA
	2		<b>5SY8102-7</b>		1	1 unit	1AC		<b>5SY8102-8</b>		1	1 unit	1AA
	3		<b>5SY8103-7</b>		1	1 unit	1AC		<b>5SY8103-8</b>		1	1 unit	1AA
	4		<b>5SY8104-7</b>		1	1 unit	1AC		<b>5SY8104-8</b>		1	1 unit	1AA
	6		<b>5SY8106-7</b>		1	1 unit	1AC		<b>5SY8106-8</b>		1	1 unit	1AA
	8		<b>5SY8108-7</b>		1	1 unit	1AC		<b>5SY8108-8</b>		1	1 unit	1AA
	10		<b>5SY8110-7</b>		1	1 unit	1AC		<b>5SY8110-8</b>		1	1 unit	1AA
	13		<b>5SY8113-7</b>		1	1 unit	1AC		<b>5SY8113-8</b>		1	1 unit	1AA
	16		<b>5SY8116-7</b>		1	1 unit	1AC		<b>5SY8116-8</b>		1	1 unit	1AA
	20		<b>5SY8120-7</b>		1	1 unit	1AC		<b>5SY8120-8</b>		1	1 unit	1AA
	25		<b>5SY8125-7</b>		1	1 unit	1AC		<b>5SY8125-8</b>		1	1 unit	1AA
	32		<b>5SY8132-7</b>		1	1 unit	1AC		<b>5SY8132-8</b>		1	1 unit	1AA
	40		<b>5SY8140-7</b>		1	1 unit	1AC		<b>5SY8140-8</b>		1	1 unit	1AA
	50		<b>5SY8150-7</b>		1	1 unit	1AC		<b>5SY8150-8</b>		1	1 unit	1AA
	63		<b>5SY8163-7</b>		1	1 unit	1AC		<b>5SY8163-8</b>		1	1 unit	1AA
<b>1P+N, 230 V AC</b>													
	0.3	2	<b>5SY8514-7</b>		1	1 unit	1AC		<b>5SY8514-8</b>		1	1 unit	1AA
	0.5		<b>5SY8505-7</b>		1	1 unit	1AC		<b>5SY8505-8</b>		1	1 unit	1AA
	1		<b>5SY8501-7</b>		1	1 unit	1AC		<b>5SY8501-8</b>		1	1 unit	1AA
	1.6		<b>5SY8515-7</b>		1	1 unit	1AC		<b>5SY8515-8</b>		1	1 unit	1AA
	2		<b>5SY8502-7</b>		1	1 unit	1AC		<b>5SY8502-8</b>		1	1 unit	1AA
	3		<b>5SY8503-7</b>		1	1 unit	1AC		<b>5SY8503-8</b>		1	1 unit	1AA
	4		<b>5SY8504-7</b>		1	1 unit	1AC		<b>5SY8504-8</b>		1	1 unit	1AA
	6		<b>5SY8506-7</b>		1	1 unit	1AC		<b>5SY8506-8</b>		1	1 unit	1AA
	8		<b>5SY8508-7</b>		1	1 unit	1AC		<b>5SY8508-8</b>		1	1 unit	1AA
	10		<b>5SY8510-7</b>		1	1 unit	1AC		<b>5SY8510-8</b>		1	1 unit	1AA
	13		<b>5SY8513-7</b>		1	1 unit	1AC		<b>5SY8513-8</b>		1	1 unit	1AA
	16		<b>5SY8516-7</b>		1	1 unit	1AC		<b>5SY8516-8</b>		1	1 unit	1AA
	20		<b>5SY8520-7</b>		1	1 unit	1AC		<b>5SY8520-8</b>		1	1 unit	1AA
	25		<b>5SY8525-7</b>		1	1 unit	1AC		<b>5SY8525-8</b>		1	1 unit	1AA
	32		<b>5SY8532-7</b>		1	1 unit	1AC		<b>5SY8532-8</b>		1	1 unit	1AA
	40		<b>5SY8540-7</b>		1	1 unit	1AC		<b>5SY8540-8</b>		1	1 unit	1AA
	50		<b>5SY8550-7</b>		1	1 unit	1AC		<b>5SY8550-8</b>		1	1 unit	1AA
	63		<b>5SY8563-7</b>		1	1 unit	1AC		<b>5SY8563-8</b>		1	1 unit	1AA
<b>2P, 400 V AC</b>													
	0.3	2	<b>5SY8214-7</b>		1	1 unit	1AC		<b>5SY8214-8</b>		1	1 unit	1AA
	0.5		<b>5SY8205-7</b>		1	1 unit	1AC		<b>5SY8205-8</b>		1	1 unit	1AA
	1		<b>5SY8201-7</b>		1	1 unit	1AC		<b>5SY8201-8</b>		1	1 unit	1AA
	1.6		<b>5SY8215-7</b>		1	1 unit	1AC		<b>5SY8215-8</b>		1	1 unit	1AA
	2		<b>5SY8202-7</b>		1	1 unit	1AC		<b>5SY8202-8</b>		1	1 unit	1AA
	3		<b>5SY8203-7</b>		1	1 unit	1AC		<b>5SY8203-8</b>		1	1 unit	1AA
	4		<b>5SY8204-7</b>		1	1 unit	1AC		<b>5SY8204-8</b>		1	1 unit	1AA
	6		<b>5SY8206-7</b>		1	1 unit	1AC		<b>5SY8206-8</b>		1	1 unit	1AA
	8		<b>5SY8208-7</b>		1	1 unit	1AC		<b>5SY8208-8</b>		1	1 unit	1AA
	10		<b>5SY8210-7</b>		1	1 unit	1AC		<b>5SY8210-8</b>		1	1 unit	1AA
	13		<b>5SY8213-7</b>		1	1 unit	1AC		<b>5SY8213-8</b>		1	1 unit	1AA
	16		<b>5SY8216-7</b>		1	1 unit	1AC		<b>5SY8216-8</b>		1	1 unit	1AA
	20		<b>5SY8220-7</b>		1	1 unit	1AC		<b>5SY8220-8</b>		1	1 unit	1AA
	25		<b>5SY8225-7</b>		1	1 unit	1AC		<b>5SY8225-8</b>		1	1 unit	1AA
	32		<b>5SY8232-7</b>		1	1 unit	1AC		<b>5SY8232-8</b>		1	1 unit	1AA
	40		<b>5SY8240-7</b>		1	1 unit	1AC		<b>5SY8240-8</b>		1	1 unit	1AA
	50		<b>5SY8250-7</b>		1	1 unit	1AC		<b>5SY8250-8</b>		1	1 unit	1AA
	63		<b>5SY8263-7</b>		1	1 unit	1AC		<b>5SY8263-8</b>		1	1 unit	1AA

<sup>1)</sup> 1 MW (modular width) = 18 mm.

## Miniature Circuit Breakers

### 5SY and 5SP Miniature Circuit Breakers

5SY8, 25000 A

$I_n$	Mounting width	SD	Characteristic C				Characteristic D						
			Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
A	MW <sup>1)</sup>	d											
<b>Miniature circuit breakers 25000 A</b>													
<b>3P, 400 V AC</b>													
	0.3	3	5SY8314-7		1	1 unit	1AC		5SY8314-8		1	1 unit	1AA
	0.5		5SY8305-7		1	1 unit	1AC		5SY8305-8		1	1 unit	1AA
	1		5SY8301-7		1	1 unit	1AC		5SY8301-8		1	1 unit	1AA
	1.6		5SY8315-7		1	1 unit	1AC		5SY8315-8		1	1 unit	1AA
	2		5SY8302-7		1	1 unit	1AC		5SY8302-8		1	1 unit	1AA
	3		5SY8303-7		1	1 unit	1AC		5SY8303-8		1	1 unit	1AA
	4		5SY8304-7		1	1 unit	1AC		5SY8304-8		1	1 unit	1AA
	6		5SY8306-7		1	1 unit	1AC		5SY8306-8		1	1 unit	1AA
	8		5SY8308-7		1	1 unit	1AC		5SY8308-8		1	1 unit	1AA
	10		5SY8310-7		1	1 unit	1AC		5SY8310-8		1	1 unit	1AA
	13		5SY8313-7		1	1 unit	1AC		5SY8313-8		1	1 unit	1AA
	16		5SY8316-7		1	1 unit	1AC		5SY8316-8		1	1 unit	1AA
	20		5SY8320-7		1	1 unit	1AC		5SY8320-8		1	1 unit	1AA
	25		5SY8325-7		1	1 unit	1AC		5SY8325-8		1	1 unit	1AA
	32		5SY8332-7		1	1 unit	1AC		5SY8332-8		1	1 unit	1AA
	40		5SY8340-7		1	1 unit	1AC		5SY8340-8		1	1 unit	1AA
50		5SY8350-7		1	1 unit	1AC		5SY8350-8		1	1 unit	1AA	
63		5SY8363-7		1	1 unit	1AC		5SY8363-8		1	1 unit	1AA	
<b>3P+N, 400 V AC</b>													
	0.3	4	5SY8614-7		1	1 unit	1AC		5SY8614-8		1	1 unit	1AA
	0.5		5SY8605-7		1	1 unit	1AC		5SY8605-8		1	1 unit	1AA
	1		5SY8601-7		1	1 unit	1AC		5SY8601-8		1	1 unit	1AA
	1.6		5SY8615-7		1	1 unit	1AC		5SY8615-8		1	1 unit	1AA
	2		5SY8602-7		1	1 unit	1AC		5SY8602-8		1	1 unit	1AA
	3		5SY8603-7		1	1 unit	1AC		5SY8603-8		1	1 unit	1AA
	4		5SY8604-7		1	1 unit	1AC		5SY8604-8		1	1 unit	1AA
	6		5SY8606-7		1	1 unit	1AC		5SY8606-8		1	1 unit	1AA
	8		5SY8608-7		1	1 unit	1AC		5SY8608-8		1	1 unit	1AA
	10		5SY8610-7		1	1 unit	1AC		5SY8610-8		1	1 unit	1AA
	13		5SY8613-7		1	1 unit	1AC		5SY8613-8		1	1 unit	1AA
	16		5SY8616-7		1	1 unit	1AC		5SY8616-8		1	1 unit	1AA
	20		5SY8620-7		1	1 unit	1AC		5SY8620-8		1	1 unit	1AA
	25		5SY8625-7		1	1 unit	1AC		5SY8625-8		1	1 unit	1AA
	32		5SY8632-7		1	1 unit	1AC		5SY8632-8		1	1 unit	1AA
	40		5SY8640-7		1	1 unit	1AC		5SY8640-8		1	1 unit	1AA
50		5SY8650-7		1	1 unit	1AC		5SY8650-8		1	1 unit	1AA	
63		5SY8663-7		1	1 unit	1AC		5SY8663-8		1	1 unit	1AA	
<b>4P, 400 V AC</b>													
	0.3	4	5SY8414-7		1	1 unit	1AC		5SY8414-8		1	1 unit	1AA
	0.5		5SY8405-7		1	1 unit	1AC		5SY8405-8		1	1 unit	1AA
	1		5SY8401-7		1	1 unit	1AC		5SY8401-8		1	1 unit	1AA
	1.6		5SY8415-7		1	1 unit	1AC		5SY8415-8		1	1 unit	1AA
	2		5SY8402-7		1	1 unit	1AC		5SY8402-8		1	1 unit	1AA
	3		5SY8403-7		1	1 unit	1AC		5SY8403-8		1	1 unit	1AA
	4		5SY8404-7		1	1 unit	1AC		5SY8404-8		1	1 unit	1AA
	6		5SY8406-7		1	1 unit	1AC		5SY8406-8		1	1 unit	1AA
	8		5SY8408-7		1	1 unit	1AC		5SY8408-8		1	1 unit	1AA
	10		5SY8410-7		1	1 unit	1AC		5SY8410-8		1	1 unit	1AA
	13		5SY8413-7		1	1 unit	1AC		5SY8413-8		1	1 unit	1AA
	16		5SY8416-7		1	1 unit	1AC		5SY8416-8		1	1 unit	1AA
	20		5SY8420-7		1	1 unit	1AC		5SY8420-8		1	1 unit	1AA
	25		5SY8425-7		1	1 unit	1AC		5SY8425-8		1	1 unit	1AA
	32		5SY8432-7		1	1 unit	1AC		5SY8432-8		1	1 unit	1AA
	40		5SY8440-7		1	1 unit	1AC		5SY8440-8		1	1 unit	1AA
50		5SY8450-7		1	1 unit	1AC		5SY8450-8		1	1 unit	1AA	
63		5SY8463-7		1	1 unit	1AC		5SY8463-8		1	1 unit	1AA	

1) 1 MW (modular width) = 18 mm.

## Miniature Circuit Breakers

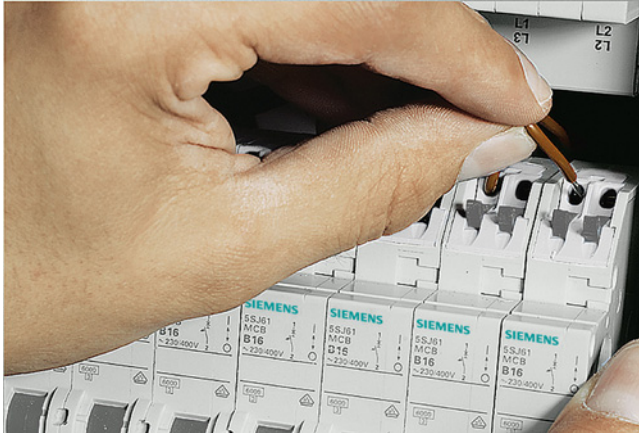
### 5SJ6...-KS miniature circuit breakers, with plug-in terminals

#### Overview

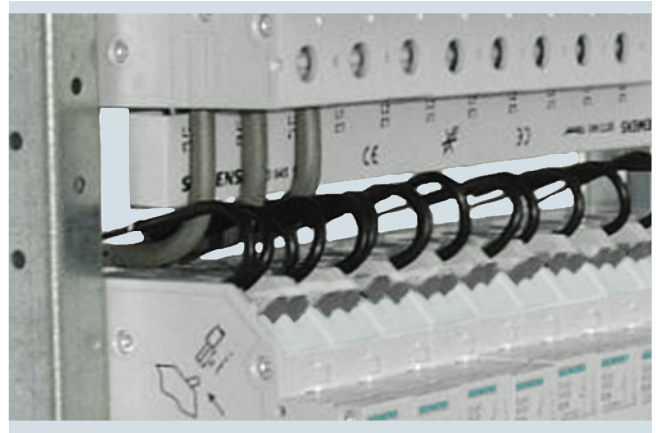
Miniature circuit breakers with plug-in terminals are used for the protection of socket outlets and lighting circuits with the most common rated currents of 10 to 20 A.

### 3

#### Benefits



- Double, self-contained, screwless outgoing terminals for fast connection of conductors.



- Removal of individual conductors requires no tools and ensures high operating reliability.
- No end sleeves required for finely stranded conductors. This saves mounting time.

## Technical specifications






		5SJ6...-KS
<b>Standards</b>		EN 60898-1
<b>Approvals</b>		see chapter "Appendix"
<b>Rated voltage <math>U_n</math></b>	V AC	230/400
<b>Operational voltage</b>		
• Min.	V AC/DC/pole	24
• Max.	V AC V DC/pole	250/440 60 <sup>1)</sup>
<b>Rated breaking capacity</b>	Acc. to EN 60898-1	kA AC 6
<b>Insulation coordination</b>		
• Rated insulation voltage	V AC	250/440
• Pollution degree for overvoltage category		2/III
<b>Rated frequency</b>	Hz	50/60
<b>Touch protection</b>	Acc. to EN 50274	Yes
<b>Handle end position, sealable</b>		Yes
<b>Degree of protection</b>	Acc. to EN 60529	IP20 with connected conductors, IP40 in the area of the handle with distribution cover
<b>CFC and silicone-free</b>		Yes
<b>Terminals</b>		Screwless terminals on the outgoing terminals for 1.5 ... 4 mm <sup>2</sup>
<b>Conductor cross-sections</b>		
• Top, plug-in terminals		
- Solid, stranded and finely stranded, without end sleeve	mm <sup>2</sup>	1.5 ... 4
- Finely stranded, with end sleeve	mm <sup>2</sup>	1.5 ... 2.5
• Bottom, tunnel terminal ± screw (Pozidriv)		2
- Solid, stranded or finely stranded, with end sleeve	mm <sup>2</sup>	0.75 ... 25
<b>Mounting position</b>		Any
<b>Service life, on average, with rated load</b>		20000 actuations
<b>Ambient temperature</b>	°C	-25 ... +45, occasionally +55, max. 95 % humidity
<b>Storage temperature</b>	°C	-40 ... +75, 95 % humidity up to 55 °C
<b>Resistance to climate</b>	Acc. to IEC 60068-2-30	6 cycles

<sup>1)</sup> The operational voltage 60 V DC/pole takes into account a battery charging voltage with a peak value of 72 V.

# Miniature Circuit Breakers

## 5SJ6...-KS miniature circuit breakers, with plug-in terminals

### Selection and ordering data

6000 3		$I_n$	Mounting width	SD	Characteristic B					Characteristic C						
					Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	
A	MW <sup>1)</sup>	d	d	d												
<b>Miniature circuit breakers with plug-in terminal</b>																
	<b>1P</b>	10	1		<b>5SJ6110-6KS</b>		1	1 unit	1AB		<b>5SJ6110-7KS</b>		1	1 unit	1AC	
		13			<b>5SJ6113-6KS</b>		1	1 unit	1AB		<b>5SJ6113-7KS</b>		1	1 unit	1AC	
		16			<b>5SJ6116-6KS</b>		1	1 unit	1AB		<b>5SJ6116-7KS</b>		1	1 unit	1AC	
		20			<b>5SJ6120-6KS</b>		1	1 unit	1AB		<b>5SJ6120-7KS</b>		1	1 unit	1AC	
	<b>1P+N</b>	10	2		<b>5SJ6510-6KS</b>		1	1 unit	1AB		<b>5SJ6510-7KS</b>		1	1 unit	1AC	
		13			<b>5SJ6513-6KS</b>		1	1 unit	1AB		<b>5SJ6513-7KS</b>		1	1 unit	1AC	
		16			<b>5SJ6516-6KS</b>		1	1 unit	1AB		<b>5SJ6516-7KS</b>		1	1 unit	1AC	
		20			<b>5SJ6520-6KS</b>		1	1 unit	1AB		<b>5SJ6520-7KS</b>		1	1 unit	1AC	
	<b>2P</b>	10	2		<b>5SJ6210-6KS</b>		1	1 unit	1AB		<b>5SJ6210-7KS</b>		1	1 unit	1AC	
		13			<b>5SJ6213-6KS</b>		1	1 unit	1AB		<b>5SJ6213-7KS</b>		1	1 unit	1AC	
		16			<b>5SJ6216-6KS</b>		1	1 unit	1AB		<b>5SJ6216-7KS</b>		1	1 unit	1AC	
		20			<b>5SJ6220-6KS</b>		1	1 unit	1AB		<b>5SJ6220-7KS</b>		1	1 unit	1AC	
	<b>3P</b>	10	3		<b>5SJ6310-6KS</b>		1	1 unit	1AB		<b>5SJ6310-7KS</b>		1	1 unit	1AC	
		13			<b>5SJ6313-6KS</b>		1	1 unit	1AB		<b>5SJ6313-7KS</b>		1	1 unit	1AC	
		16			<b>5SJ6316-6KS</b>		1	1 unit	1AB		<b>5SJ6316-7KS</b>		1	1 unit	1AC	
		20			<b>5SJ6320-6KS</b>		1	1 unit	1AB		<b>5SJ6320-7KS</b>		1	1 unit	1AC	

<sup>1)</sup> 1 MW (modular width) = 18 mm.



## Overview

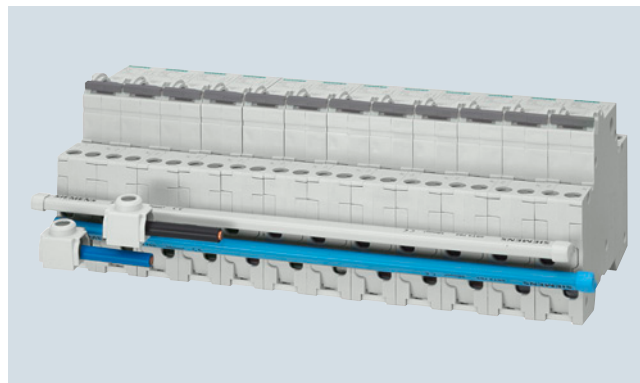
These miniature circuit breakers are used for the protection of systems and installations with switched neutral conductors in distribution boards with little space. They are just a single modular width.

Compact busbars facilitate installation in space-saving distribution boards.

## Benefits



- Auxiliary switches and fault signal contacts from the high-capacity range can be freely mounted on these miniature circuit breakers. This increases availability and cuts down on logistics.



- The infeed can be implemented either from the top or the bottom. Additional terminals with lateral cable entry facilitate mounting when using large conductor cross-sections.

## Technical specifications

		5SL30..	5SY60.. <sup>1)</sup>
<b>Standards</b>		EN 60898-1	
<b>Approvals</b>		see chapter "Appendix"	
<b>Rated voltage <math>U_n</math></b>	V AC	230	
<b>Operational voltage</b>			
• Min.	V AC/DC	24	
• Max.	V AC V DC/pole	250 72	
<b>Rated breaking capacity <math>I_{cn}</math></b>	kA AC	4.5	6
<b>Insulation coordination</b>			
• Rated insulation voltage	V AC	250	
• Pollution degree for overvoltage category		2/III	
<b>Rated frequency</b>	Hz	50/60	
<b>Touch protection</b>	Acc. to EN 50274	Yes	
<b>Handle end position</b> , sealable		Yes	
<b>Degree of protection</b>	Acc. to EN 60259	IP20 with connected conductors, IP40 in the area of the handle with distribution cover	
<b>CFC and silicone-free</b>		Yes	
<b>Terminals</b>	± screw (Pozidriv)	2	
• Solid and stranded, top and bottom terminal	mm <sup>2</sup>	0.75 ... 16	
• Finely stranded, with end sleeve, top and bottom terminal	mm <sup>2</sup>	0.75 ... 10	
• Terminal tightening torque	Nm	2.0 ... 2.5	
<b>Mounting position</b>		Any	
<b>Service life</b>	On average, with rated load	20000 actuations At 2 A/4 A and 40 A: 8000 actuations	
<b>Ambient temperature</b>	°C	-25 ... +45, occasionally +55, max. 95 % humidity	
<b>Storage temperature</b>	°C	-40 ... +75	
<b>Resistance to climate</b>	Acc. to IEC 60068-2-30	6 cycles	
<b>Resistance to vibrations</b>	Acc. to IEC 60068-2-6	m/s <sup>2</sup>	50 at 25 ... 150 Hz and 60 at 35 Hz (4 s)





<sup>1)</sup> Not for Belgium

## Miniature Circuit Breakers

5S..0 Miniature Circuit Breakers, 1+N in 1 MW

5SL30, 4500 A **NEW**

### Selection and ordering data

 	$I_n$	Mounting width MW <sup>1)</sup>	SD d	<b>Characteristic C</b> Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG				
									A			
<b>Miniature circuit breakers 4500 A</b>												
	<b>1P+N, 230 V AC</b>											
	N connection, right	1										
	2								<b>5SL3002-7</b>	1	1 unit	1AE
	4								<b>5SL3004-7</b>	1	1 unit	1AE
	6								<b>5SL3006-7</b>	1	1 unit	1AE
	8								<b>5SL3008-7</b>	1	1 unit	1AE
	10								<b>5SL3010-7</b>	1	1 unit	1AE
	13								<b>5SL3013-7</b>	1	1 unit	1AE
	16								<b>5SL3016-7</b>	1	1 unit	1AE
	20								<b>5SL3020-7</b>	1	1 unit	1AE
	25								<b>5SL3025-7</b>	1	1 unit	1AE
32	<b>5SL3032-7</b>								1	1 unit	1AE	
40	<b>5SL3040-7</b>	1	1 unit	1AE								
	N connection, left	1										
	2								<b>5SL3002-7KL</b>	1	1 unit	1AE
	4								<b>5SL3004-7KL</b>	1	1 unit	1AE
	6								<b>5SL3006-7KL</b>	1	1 unit	1AE
	8								<b>5SL3008-7KL</b>	1	1 unit	1AE
	10								<b>5SL3010-7KL</b>	1	1 unit	1AE
	13								<b>5SL3013-7KL</b>	1	1 unit	1AE
	16								<b>5SL3016-7KL</b>	1	1 unit	1AE
	20								<b>5SL3020-7KL</b>	1	1 unit	1AE
	25								<b>5SL3025-7KL</b>	1	1 unit	1AE
	32								<b>5SL3032-7KL</b>	1	1 unit	1AE
40	<b>5SL3040-7KL</b>	1	1 unit	1AE								



<sup>1)</sup> 1 MW (modular width) = 18 mm.

## Miniature Circuit Breakers

5S..0 Miniature Circuit Breakers, 1+N in 1 MW

5SY60, 6000 A

## Selection and ordering data

6000 3		$I_n$	Mounting width	SD	Characteristic B					Characteristic C						
D/E		A	MW <sup>1)</sup>	d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	
<b>Miniature circuit breakers, compact, 1+N (1P+N), 230 V AC<sup>2)</sup></b>																
		<b>N pole, right</b>														
	2	1			--						<b>5SY6002-7</b>		1	1 unit	1AC	
	4				--						<b>5SY6004-7</b>		1	1 unit	1AC	
	6				<b>5SY6006-6</b>		1	1 unit	1AB		<b>5SY6006-7</b>		1	1 unit	1AC	
	8				--						<b>5SY6008-7</b>		1	1 unit	1AC	
	10				<b>5SY6010-6</b>		1	1 unit	1AB		<b>5SY6010-7</b>		1	1 unit	1AC	
	13				<b>5SY6013-6</b>		1	1 unit	1AB		<b>5SY6013-7</b>		1	1 unit	1AC	
	16				<b>5SY6016-6</b>		1	1 unit	1AB		<b>5SY6016-7</b>		1	1 unit	1AC	
	20				<b>5SY6020-6</b>		1	1 unit	1AB		<b>5SY6020-7</b>		1	1 unit	1AC	
	25				<b>5SY6025-6</b>		1	1 unit	1AB		<b>5SY6025-7</b>		1	1 unit	1AC	
	32				<b>5SY6032-6</b>		1	1 unit	1AB		<b>5SY6032-7</b>		1	1 unit	1AC	
	40				<b>5SY6040-6</b>		1	1 unit	1AB		<b>5SY6040-7</b>		1	1 unit	1AC	
		<b>N pole, left</b>														
	2	1			--						<b>5SY6002-7KL</b>		1	1 unit	1AC	
	4				--						<b>5SY6004-7KL</b>		1	1 unit	1AC	
	6				--						<b>5SY6006-7KL</b>		1	1 unit	1AC	
	8				--						<b>5SY6008-7KL</b>		1	1 unit	1AC	
	10				--						<b>5SY6010-7KL</b>		1	1 unit	1AC	
	13				--						<b>5SY6013-7KL</b>		1	1 unit	1AC	
	16				--						<b>5SY6016-7KL</b>		1	1 unit	1AC	
	20				--						<b>5SY6020-7KL</b>		1	1 unit	1AC	
	25				--						<b>5SY6025-7KL</b>		1	1 unit	1AC	
	32				--						<b>5SY6032-7KL</b>		1	1 unit	1AC	
	40				--						<b>5SY6040-7KL</b>		1	1 unit	1AC	

1) 1 MW (modular width) = 18 mm.

2) Not for Belgium

## Miniature Circuit Breakers

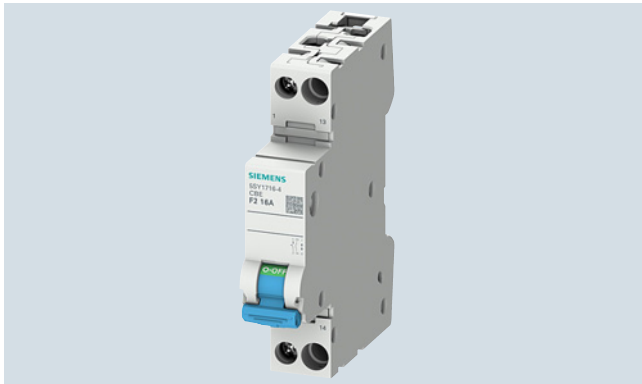
5SY17 device protection switches, 1P+HS in 1 MW **NEW**

### Introduction

#### Overview

Thermomagnetic device protection switches offer optimum protection for all applications in AC and DC control circuits in industrial applications and plant engineering.

#### Benefits



Device protection switches are provided for the protection of control circuits in electrical equipment and its components (e.g. motors, sensors, indicators, internal wiring). They protect loads in electronic equipment against overload and short circuit and have an integrated 1 NO auxiliary switch. The dimension is 18 mm (1 MW).

Devices with the functions F1 (quick) and F2 (slow) are available for magnetic tripping (short circuit).

The devices have a voltage range up to 60 V DC and 250 V AC acc. to IEC 60934.

#### Technical specifications

	5SY17 Standards: IEC 60934	5SY17 Standards: UL 1077
<b>Approvals</b>	see chapter "Appendix"	
<b>Rated voltage</b>	230 V AC, 60 V DC	277 V AC, 60 V DC
<b>Operational voltage</b>		
• Min.	24 V AC/DC	24 V AC/DC
• Max.	250 V AC, 60 V DC	277 V AC, 60 V DC
<b>Breaking capacity</b>	230 V AC: 3 kA 60 V DC: 3.5 kA	60 V DC: 3.5 kA (SC = U3) 277 V AC: 3 kA (SC = U3) 120 V AC: 5 kA (SC = U3)
<b>Auxiliary switches</b>		
• Operating data	Min. 24 V DC / 5 mA Max. 60 V DC / 1 A AC-14 230 V AC / 6 A DC-13 60 V DC / 1 A	277 V AC / 1 A 60 V DC / 6 A
• Pollution degree for overvoltage category	2/II	3/III
<b>DC tripping</b> magnetic	F1 curve: 2.5 ... 4 x I <sub>n</sub> ; F2 curve: 4 ... 7 x I <sub>n</sub>	
<b>AC and DC tripping</b> thermal	1.05 holding current; 1.35 tripping current TC3: 1.35 x I <sub>n</sub>	
<b>Insulation coordination</b>		
Rated insulation voltage	250 V AC	
<b>Rated frequency</b>	50/60 Hz	
<b>Impulse withstand voltage</b>	in kV	4
<b>Touch protection</b>	Acc. to EN 50274	Yes
<b>Degree of protection</b>	Acc. to EN 60259	IP20
<b>Terminals</b>	Torque in Nm	
• 1-wire	0.8 ... 2.5	
• 2-wire	1.5 ... 2.5	
<b>Conductor cross-section</b>		
<b>1-wire</b>		
• Solid and stranded	in mm <sup>2</sup>	0.75 ... 16
• Finely stranded with end sleeve	in mm <sup>2</sup>	0.75 ... 10
• Finely stranded with insulated end sleeve	in mm <sup>2</sup>	0.75 ... 10
• Finely stranded without end sleeve	in mm <sup>2</sup>	0.75 ... 16
<b>2-wire</b> (same cross-section)		
• Solid and stranded	in mm <sup>2</sup>	0.75 ... 4
• Finely stranded with end sleeve	in mm <sup>2</sup>	0.75 ... 2.5
• Finely stranded with insulated end sleeve	in mm <sup>2</sup>	0.75 ... 1.5
• Finely stranded without end sleeve	in mm <sup>2</sup>	0.75 ... 4
<b>Mounting position</b>	Any	
<b>Service life</b>	6 000 operating cycles or 12 000 actuations	
<b>Ambient temperature</b>	-25 ... +60 °C	
<b>Storage temperature</b>	-40 ... +70 °C	

## Miniature Circuit Breakers

**NEW** 5SY17 device protection switches, 1P+HS in 1 MW

5SY17 0.5 A ... 16 A

## Selection and ordering data



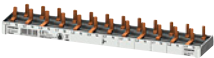


$I_n$	Mounting width	SD	F1 curve					F2 curve							
			Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG		
A	MW <sup>1)</sup>	d													
<b>Device protection switches</b>															
<b>1P+HS</b>															
	0.5	1	<b>5SY1705-2</b>		1	1 unit	1AA				<b>5SY1705-4</b>		1	1 unit	1AA
	1		<b>5SY1701-2</b>		1	1 unit	1AA				<b>5SY1701-4</b>		1	1 unit	1AA
	2		<b>5SY1702-2</b>		1	1 unit	1AA				<b>5SY1702-4</b>		1	1 unit	1AA
	4		<b>5SY1704-2</b>		1	1 unit	1AA				<b>5SY1704-4</b>		1	1 unit	1AA
	6		<b>5SY1706-2</b>		1	1 unit	1AA				<b>5SY1706-4</b>		1	1 unit	1AA
	8		<b>5SY1708-2</b>		1	1 unit	1AA				<b>5SY1708-4</b>		1	1 unit	1AA
	10		<b>5SY1710-2</b>		1	1 unit	1AA				<b>5SY1710-4</b>		1	1 unit	1AA
	16		<b>5SY1716-2</b>		1	1 unit	1AA				<b>5SY1716-4</b>		1	1 unit	1AA

1) 1 MW (modular width) = 18 mm.

# Miniature Circuit Breakers

## Busbars

### 5ST3 busbar system **NEW**

	Pin spacing	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>5ST3 busbar system, 10 mm<sup>2</sup>,</b>							
	<b>5ST3 busbars for infeed via RCCB</b>						
	For 1 x RCCB 1P+N and 5 x compact devices equipped with 5SM6 arc fault detection device						
	• 2-phase, 10 mm <sup>2</sup>	12 MW	<b>5ST3685-0</b>		1	1 unit	1AD
	For 1 x RCCB 3P+N and 8 x compact devices						
	• 4-phase, 10 mm <sup>2</sup> , can be cut	12 MW	<b>5ST3783-0</b>		1	1 unit	1AD
	• 4-phase, 10 mm <sup>2</sup> (only RCCB N left), can be cut	12 MW	<b>5ST3783-0KL</b>		1	1 unit	1AD
	For 1 x RCCB 1P+N and 10 x compact devices						
	• 2-phase, 10 mm <sup>2</sup> , can be cut	12 MW	<b>5ST3784-0</b>		1	1 unit	1AD
	• 2-phase, 10 mm <sup>2</sup> (only RCCB N left), can be cut	12 MW	<b>5ST3784-0KL</b>		1	1 unit	1AD
		<b>5ST3 busbars</b>					
For 12 compact devices							
• 4-phase, 10 mm <sup>2</sup>		12 MW	<b>5ST3673-0</b>		1	1 unit	1AD
For compact devices							
• 4-phase, 10 mm <sup>2</sup> , can be cut		1000 mm	<b>5ST3773-0</b>		1	1 unit	1AD
For 12 compact devices							
• 2-phase, 10 mm <sup>2</sup>		12 MW	<b>5ST3674-0</b>		1	1 unit	1AD
For compact devices							
• 2-phase, 10 mm <sup>2</sup> , can be cut		1000 mm	<b>5ST3774-0</b>		1	1 unit	1AD
For 6 compact devices equipped with 5SM6 arc fault detection device							
• 4-phase, 10 mm <sup>2</sup>		12 MW	<b>5ST3675-0</b>		1	1 unit	1AD
For compact devices equipped with 5SM6 arc fault detection device							
• 4-phase, 10 mm <sup>2</sup> , can be cut		1000 mm	<b>5ST3775-0</b>		1	1 unit	1AD
For 6 compact devices equipped with 5SM6 arc fault detection device							
• 2-phase, 10 mm <sup>2</sup>		12 MW	<b>5ST3676-0</b>		1	1 unit	1AD
For compact devices equipped with 5SM6 arc fault detection device							
• 2-phase, 10 mm <sup>2</sup> , can be cut	1000 mm	<b>5ST3776-0</b>		1	1 unit	1AD	
For compact devices equipped with auxiliary switch							
• 4-phase, 10 mm <sup>2</sup> , can be cut	1000 mm	<b>5ST3777-0</b>		1	1 unit	1AD	
For compact devices equipped with auxiliary switch							
• 2-phase, 10 mm <sup>2</sup> , can be cut	1000 mm	<b>5ST3778-0</b>		1	1 unit	1AD	
For compact devices equipped with 5SM6 arc fault detection device and auxiliary switch							
• 2-phase, 10 mm <sup>2</sup> , can be cut	1000 mm	<b>5ST3780-0</b>		1	1 unit	1AD	
	<b>End caps for 5ST37</b>						
	• For 2-phase and 4-phase busbars		<b>5ST3788-0</b>		1	10 units	1AD
	<b>Touch protection</b>						
	• For free connections, for pins L1, N, yellow		<b>5ST3655</b>		1	10 units	1AD
	• For pins L2 / L3, yellow		<b>5ST3655-0HG</b>		1	10 units	1AE

<sup>1)</sup> 1 MW (modular width) = 18 mm.

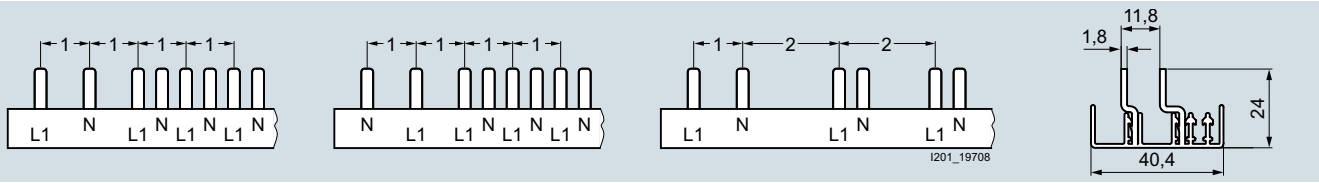


Dimensional drawings

5ST36 / 5ST37

Pin spacing in MW (modular width; 1 MW = 18 mm)

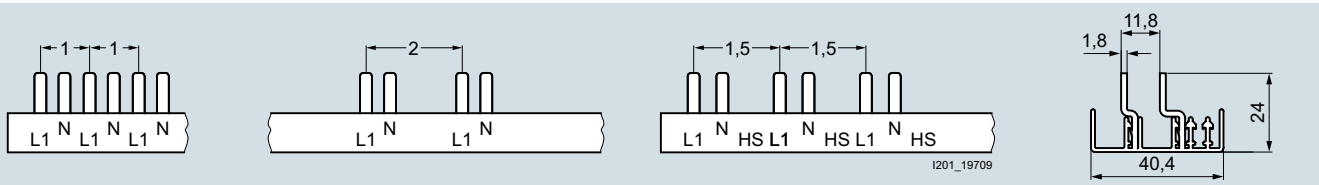
Dimensions of side view in mm (approx.)



5ST3784-0

5ST3784-OKL

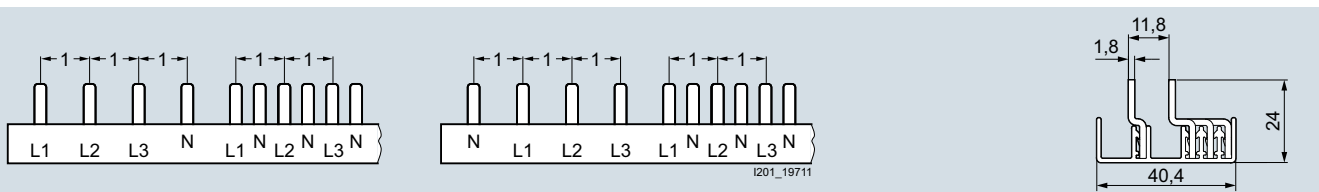
5ST3685-0



5ST3674-0

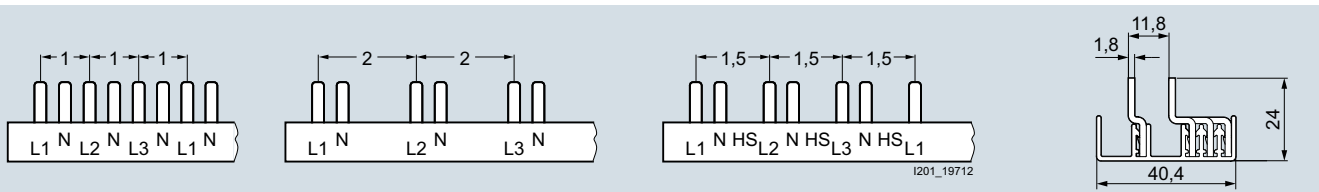
5ST3676-0

5ST3778-0



5ST3783-0

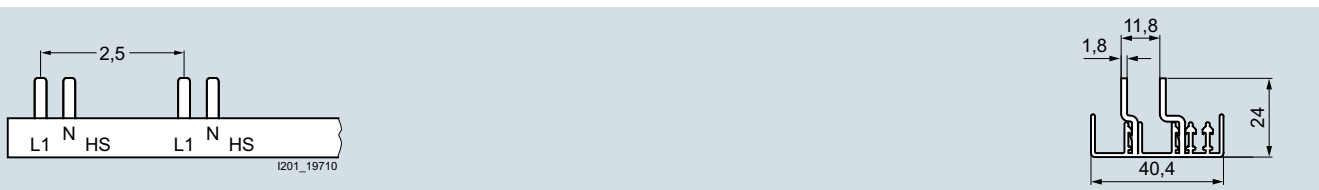
5ST3783-OKL



5ST3673-0

5ST3675-0

5ST3777-0


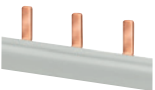
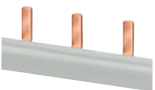





5ST3780-0

# Miniature Circuit Breakers

## Busbars

### 5ST busbar system

	Pin spacing	Length	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW <sup>1)</sup>	mm	d					
<b>5ST37 busbar system, 10 mm<sup>2</sup>, for 1+N miniature circuit breakers in 1 MW of the compact range, can be cut, with end caps</b>								
	<b>Single-phase, 12 MW</b> For 12 MCBs 1+N, gray	1	216	<b>5ST3762</b>		1	10 units	1AD
	For 12 MCBs 1+N, blue		216	<b>5ST3763</b>		1	10 units	1AD
	<b>Single-phase</b> For MCBs 1+N, gray	1	1016	<b>5ST3764</b>		1	10 units	1AD
	For MCBs 1+N, blue		1016	<b>5ST3765</b>		1	10 units	1AD
<b>Terminals</b>								
	<b>Terminals, short</b> • For conductors up to 25 mm <sup>2</sup> • Infeed on side • Specially for single-phase busbars and for 5ST3615-1 three-phase busbars			<b>5ST3768</b>		1	25 units	1AD
	<b>Terminals, short, IP20</b> • For conductors up to 25 mm <sup>2</sup> • Infeed on side • Specially for single-phase busbars and for 5ST3615-1 three-phase busbars			<b>5ST3771-2</b>		1	10 units	1AD
<b>End caps for 5ST376 busbars</b>								
	1 set comprises a right and a left cap Gray			<b>5ST3766</b>		1	10 sets	1AD
	Blue			<b>5ST3767</b>		1	10 sets	1AD
<b>5ST36 busbar systems, 10 mm<sup>2</sup>, for miniature circuit breakers, fixed lengths, cannot be cut, fully insulated</b>								
	<b>Three-phase</b> For 6 MCBs 1+N	1	102	<b>5ST3613</b>		1	10 units	1AD
	For 9 MCBs 1+N		257.5	<b>5ST3614</b>		1	10 units	1AD
	For 12 MCBs 1+N		210	<b>5ST3615</b>		1	10 units	1AD

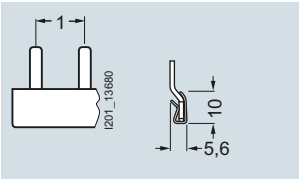
<sup>1)</sup> 1 MW (modular width) = 18 mm.

### Dimensional drawings

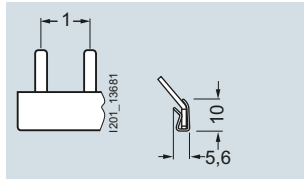
#### 5ST36

##### Pin spacing in MW

Dimensions of side view in mm (approx.).



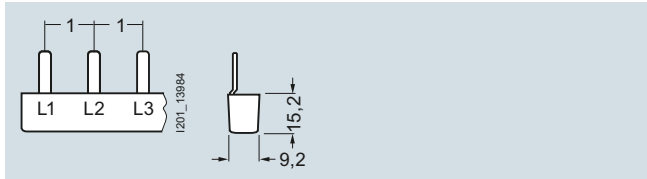
5ST3613  
5ST3614  
5ST3615



#### 5ST37

##### Pin spacing in MW

Dimensions of side view in mm (approx.).



5ST3762  
5ST3764

5ST3763  
5ST3765

## Miniature Circuit Breakers

### Additional Components

#### Electrical components

#### Overview

The Siemens mounting concept supports the combination of all 5ST3 additional components with 5SY and 5SP miniature circuit breakers and with 5SU1 RCBOs.

5SL and 5SY60... miniature circuit breakers are suitable for mounting auxiliary switches and fault signal contacts.

#### Auxiliary switches (AS)

The auxiliary switch (AS) always signals the contact position of the miniature circuit breaker, regardless of whether the miniature circuit breaker was tripped manually or as the result of a fault. An additional version is also available for the switching of small currents and voltages for the control of programmable control systems (PLCs) according to EN 61131-2. The auxiliary switch with test button enables the testing of control circuits without the need to switch the miniature circuit breaker.

#### Fault signal contacts (FC)

The fault signal contact (FC) signals the automatic tripping of the miniature circuit breaker in the event of a fault, such as an overload or a short circuit. If the fault signal contact is activated, the contact position does not change if the miniature circuit breaker is tripped manually. Fault signal contacts with TEST and RESET buttons enable the testing of control circuits without the need to trip the miniature circuit breaker. The red RESET button integrated in the handle also indicates the automatic tripping of the MCB. The signal can be acknowledged manually using the RESET button.

#### Combined auxiliary switch (AS) and fault signal contact (FC)

The combined auxiliary switch and fault signal contact unites the properties of both switches in a width of only 0.5 MW (9 mm).

The mode of operation of each function is described above.

#### Shunt trips (ST)

Shunt trips are used for remote tripping of miniature circuit breakers.

#### Undervoltage releases (UR)

Undervoltage releases are integrated (e.g. in EMERGENCY-STOP loops), thus ensuring that the miniature circuit breaker trips in the event of an emergency, which, in turn, ensures disconnection of the control circuit according to EN 60204. In the event that the voltage is interrupted or too low, it also trips, i.e. prevents activation of the miniature circuit breaker.

#### RC units

RC units can be combined with miniature circuit breakers of characteristics A, B, C and D. They then form a combination of RCCB and miniature circuit breakers for personnel, fire and line protection. The combinations can be tailored to meet individual requirements.

For information on RC units, see chapter "Residual Current Protective Devices / Arc Fault Detection Devices (AFDDs)".

#### Remote controlled mechanisms (RC)

Remote controlled mechanisms are used for the remote ON/OFF switching of miniature circuit breakers with or without RC unit, residual current operated circuit breakers, RCBOs or isolators and also enable local manual switching of these devices.

The device combination with the auto reclose device (ARD) types tries up to three times to switch on again in the event of a fault. If a fault continues to exist, the combination remains switched off. The remote controlled mechanism has a mode selector switch with the functions: "OFF", "RC OFF" and "RC ON".

Explanation of selector switch positions:

- OFF (for the 177 - 270 V devices): The remote controlled mechanism is switched off, blocked mechanically and can be sealed and/or locked.
- RC OFF: Only manual operation is possible.
- RC ON: Both manual and remote operation are possible (except for in the case of the basic 12 - 48 V devices).

In the event that a device is tripped by a fault, the handle of the basic device and remote controlled mechanism switches to the OFF position. If, depending on the device version, the combination has switched off, an attempt can be made either via ARD or remotely to switch on again. If a fault continues to exist, the combination is switched off and can only be switched on again locally manually.

Matching adapters have to be ordered additionally to enable the remote controlled mechanisms to be combined with the residual current operated circuit breakers, miniature circuit breakers, RCBOs and ON/OFF switches.

### Benefits

**Can be universally retrofitted with all additional components**



- The 5SL, 5SY and 5SP miniature circuit breakers are ideal for the quick and easy mounting of auxiliary switches and fault signal contacts. Captive metal brackets on the additional components ensure the quick and easy mounting of devices on the miniature circuit breakers without the need for tools.

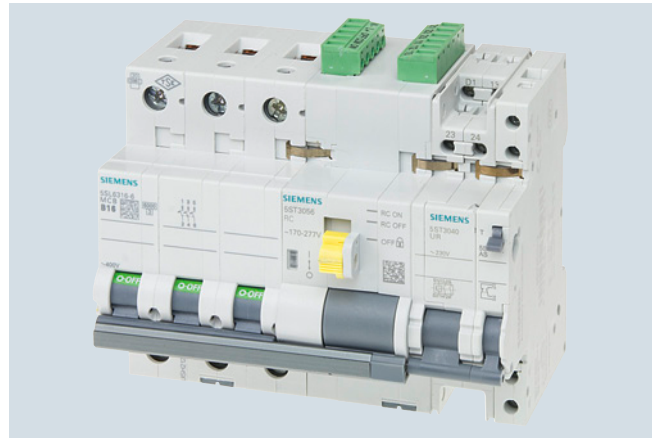


- Fault signal contacts with TEST and RESET button enable the simple testing of auxiliary circuits and, in the event of a fault, acknowledgement of the fault over the RESET button, without the need to switch the miniature circuit breakers.



- The auxiliary switches with TEST button enable the simple manual testing of control circuits during operation of the entire installation, without the need to switch the miniature circuit breakers.

**Remote controlled mechanisms**



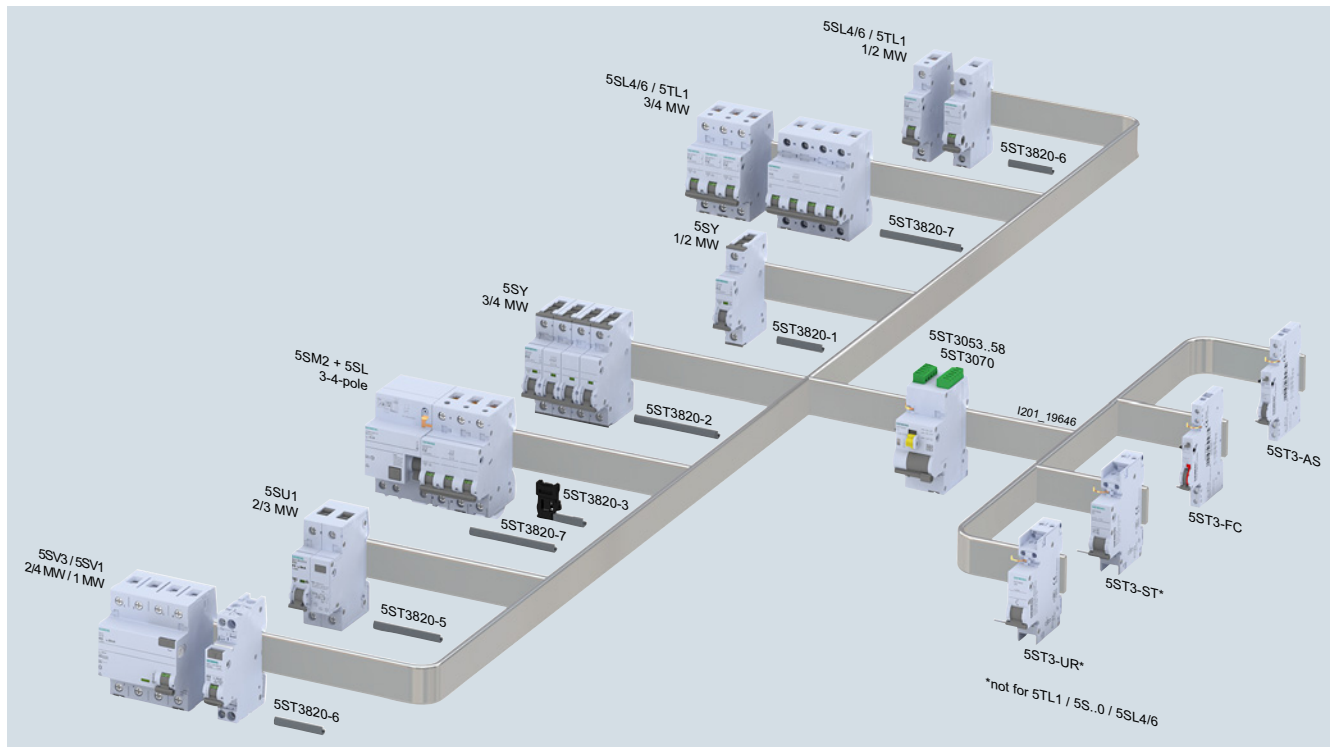
- Remote controlled mechanisms with ARD and Power have integrated auxiliary switches and fault signal contacts.
- More 5ST3... additional components, such as AS, FC, ST and UR, can be added to the right-hand side of the remote controlled mechanism in line with the Siemens mounting concept.
- The remote controlled mechanisms with ARD and Power have an LED display on the front of the device to show the switching state and for diagnostics.
- Remote controlled mechanism 5ST3070 has an extended temperature range from -40 °C to +70 °C.

# Miniature Circuit Breakers

## Additional Components









### Electrical components

#### Portfolio overview





### Combination options remote controlled mechanism – adapter – mount-on device

		5SL4/6	5TL1	5SV1	5SL4/6	5TL1	5SY4/5/6/7/8	5SY60	5SY4/5/6/7/8
		1-2 MW			3-4 MW		1-2 MW		3-4 MW
	<b>RC mech. Basic (1.5 MW) – 5ST3053</b> 12 V - 30 V AC 12 V - 48 V DC								
		Adapter 5ST3820-6			Adapter 5ST3820-7		Adapter 5ST3820-1		Adapter 5ST3820-2
	<b>RC mech. Basic (2 MW) – 5ST3054</b> 230 V AC								
		Adapter 5ST3820-6			Adapter 5ST3820-7		Adapter 5ST3820-1		Adapter 5ST3820-2
	<b>RC mech. Power (2 MW) – 5ST3055</b> 12 V - 30 V AC 12 V - 48 V DC								
		Adapter 5ST3820-6			Adapter 5ST3820-7		Adapter 5ST3820-1		Adapter 5ST3820-2
	<b>RC mech. Power (2 MW) – 5ST3056</b> 230 V AC								
		Adapter 5ST3820-6			Adapter 5ST3820-7		Adapter 5ST3820-1		Adapter 5ST3820-2
	<b>RC mech. ARD* (2 MW) – 5ST3057</b> 12 V - 30 V AC 12 V - 48 V DC								
		Adapter 5ST3820-6			Adapter 5ST3820-7		Adapter 5ST3820-1		Adapter 5ST3820-2
	<b>RC mech. ARD* (2 MW) – 5ST3058</b> 230 V AC								
		Adapter 5ST3820-6			Adapter 5ST3820-7		Adapter 5ST3820-1		Adapter 5ST3820-2
	<b>RC mech. Power (2 MW) – 5ST3070</b> 12 V - 30 V AC 12 V - 48 V DC								
		Adapter 5ST3820-6			Adapter 5ST3820-7		Adapter 5ST3820-1		Adapter 5ST3820-2

\* ARD = Auto Reclose Device







































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## Miniature Circuit Breakers

### Additional Components

#### Electrical components

#### Combination options remote controlled mechanism – adapter – mount-on device

	5SU1 2 MW, 3MW	5SV3	5SM2 + 5SL 2-pole	5SM2 + 5SL 3-4-pole	5SM2 + 5SY 2-pole	5SM2 + 5SY 3-4-pole
						
<b>RC mech. Basic (1.5 MW) – 5ST3053</b> 12 V - 30 V AC 12 V - 48 V DC	 Adapter 5ST3820-5	not compatible	not compatible	not compatible	not compatible	not compatible
<b>RC mech. Basic (2 MW) – 5ST3054</b> 230 V AC	 Adapter 5ST3820-5	not compatible	not compatible	not compatible	not compatible	not compatible
<b>RC mech. Power (2 MW) – 5ST3055</b> 12 V - 30 V AC 12 V - 48 V DC	 Adapter 5ST3820-5	 Adapter 5ST3820-6	 Adapter 5ST3820-3 add. 5ST3820-6	 Adapter 5ST3820-3 add. 5ST3820-7	 Adapter 5ST3820-3 add. 5ST3820-1	 Adapter 5ST3820-3 add. 5ST3820-2
<b>RC mech. Power (2 MW) – 5ST3056</b> 230 V AC	 Adapter 5ST3820-5	 Adapter 5ST3820-6	 Adapter 5ST3820-3 add. 5ST3820-6	 Adapter 5ST3820-3 add. 5ST3820-7	 Adapter 5ST3820-3 add. 5ST3820-1	 Adapter 5ST3820-3 add. 5ST3820-2
<b>RC mech. ARD* (2 MW) – 5ST3057</b> 12 V - 30 V AC 12 V - 48 V DC	 Adapter 5ST3820-5	 Adapter 5ST3820-6	 Adapter 5ST3820-3 add. 5ST3820-6	 Adapter 5ST3820-3 add. 5ST3820-7	 Adapter 5ST3820-3 add. 5ST3820-1	 Adapter 5ST3820-3 add. 5ST3820-2
<b>RC mech. ARD* (2 MW) – 5ST3058</b> 230 V AC	 Adapter 5ST3820-5	 Adapter 5ST3820-6	 Adapter 5ST3820-3 add. 5ST3820-6	 Adapter 5ST3820-3 add. 5ST3820-7	 Adapter 5ST3820-3 add. 5ST3820-1	 Adapter 5ST3820-3 add. 5ST3820-2
<b>RC mech. Power (2 MW) – 5ST3070</b> 12 V - 30 V AC 12 V - 48 V DC	 Adapter 5ST3820-5	 Adapter 5ST3820-6	 Adapter 5ST3820-3 add. 5ST3820-6	 Adapter 5ST3820-3 add. 5ST3820-7	 Adapter 5ST3820-3 add. 5ST3820-1	 Adapter 5ST3820-3 add. 5ST3820-2

\* ARD = Auto Reclose Device

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**Technical specifications**



	Remote controlled mechanisms								
	Basic		Power		ARD (with automatic restart)		Power		
	5ST3053	5ST3054	5ST3055	5ST3056	5ST3057	5ST3058	5ST3070		
<b>Standards</b>	EN 50557 (VDE 0640-20)								
<b>Rated voltages <math>U_n</math></b>	V AC	12 ... 30	177 ... 270	12 ... 30	177 ... 270	12 ... 30	177 ... 270	12 ... 30	
	V DC	12 ... 48		12 ... 48		12 ... 48		12 ... 48	
• Rated frequency $f_n$	Hz	50 ... 60							
<b>Rated power dissipation</b>	VA	≤ 1 in standby							
<b>Module width</b>	mm	27 (1.5 MW)	36 (2 MW)						
<b>Ambient temperature</b>	°C	-25 ... +45							-40 ... +70
<b>Storage temperature</b>	°C	-40 ... +55							-40 ... +70
<b>Degree of protection</b>	IP20								
<b>Pollution degree for overvoltage category</b>		3/II	3/III	3/II	3/III	3/II	3/III	3/II	
<b>Service life, on average, with rated load</b>	10 000 actuations								
<b>Conductor cross-sections</b>	mm <sup>2</sup>	0.5 ... 1.5							
	AWG	14 ... 30							
<b>Terminal tightening torque</b>	Nm	0.2 ... 0.25							
	lb-in	2.0							
<b>Cable length in the control circuit</b>	m	≤ 1500							
<b>Number of remote switching operations/min.</b>	2								
<b>Number of automatic reclose attempts</b>	--						3	--	
<b>Sliding selector with locking device</b>	--	✓		✓	✓	✓	✓	✓	
<b>Integrated auxiliary switches</b>	--	1W (1CO); 2 A; 250 V							
<b>Integrated fault signal contact</b>	--	1W (1CO); 2 A; 250 V							
<b>Possible device combinations</b>	MCBs up to 4 MW, RCBOs up to 3 MW			MCBs, RCCBs up to 4P, RCBOs up to 3 MW, RC unit + MCB, ON/OFF switches: 5TL1, 5TE2					
<b>Shock and vibration requirements acc. to EN 61373 / EN 50155 "1B"</b>	--								✓

## Miniature Circuit Breakers

### Additional Components

#### Electrical components

#### Selection and ordering data

	Rated voltage	Mounting width	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	
	$U_n$ V	MW <sup>1)</sup>	d						
<b>Remote controlled mechanisms (RC mech.)</b>									
	• Basic	12 ... 30 V AC 12 ... 48 V DC	1.5	<b>5ST3053</b>		1	1 unit	1AD	
	• Power	AC 177 ... 270 V	2	<b>5ST3054</b>		1	1 unit	1AD	
		12 ... 30 V AC 12 ... 48 V DC	2	<b>5ST3055</b>		1	1 unit	1AD	
	• Power with automatic reclose function	AC 177 ... 270 V		<b>5ST3056</b>		1	1 unit	1AD	
		12 ... 30 V AC 12 ... 48 V DC	2	<b>5ST3057</b>		1	1 unit	1AD	
	• With extended function <b>NEW</b>	AC 177 ... 270 V		<b>5ST3058</b>		1	1 unit	1AD	
		12 ... 30 V AC 12 ... 48 V DC	2	<b>5ST3070</b>		1	1 unit	1AD	
	<b>Note</b>								
	Matching adapters must be ordered separately.								
	<b>Accessories for remote controlled mechanisms</b>								
	• Adapters for: - 5SY MCBs 1-2 MW - 5SM2 RC unit with 5SY, 2-pole			<b>5ST3820-1</b>		1	1 unit	1AD	
	• Adapters for: - 5SY MCBs 3-4 MW - 5SM2 RC unit with 5SY, 3-4-pole			<b>5ST3820-2</b>		1	1 unit	1AD	
	• Adapters for: - 5SM2 RC unit			<b>5ST3820-3</b>		1	1 unit	1AD	
	• Adapters for: - 5SU1 RCBOs			<b>5ST3820-5</b>		1	1 unit	1AD	
	• Adapters for: - 5SL MCBs 1-2-pole - 5TL1 1-2-pole - 5SV3 RCCBs 2/4-pole - 5SM2 RC unit with 5SL, 2-pole - 5SV1 RCBO			<b>5ST3820-6</b>		1	1 unit	1AD	
	• Adapters for: - 5SL MCBs 3-4-pole - 5TL1 3-4-pole - 5SM2 RC unit with 5SL, 3-4-pole			<b>5ST3820-7</b>		1	1 unit	1AD	

<sup>1)</sup> 1 MW (modular width) = 18 mm.

### Technical specifications

	Auxiliary switches (AS)		Fault signal contacts (FC)	Auxiliary switches (AS) and fault signal contacts (FC)
	5ST3010, 5ST3010-2 5ST3011, 5ST3011-2 5ST3012, 5ST3012-2	5ST3013 <sup>1)</sup> , 5ST3013-2 <sup>2)</sup> 5ST3014 <sup>1)</sup> , 5ST3014-2 <sup>2)</sup> 5ST3015 <sup>1)</sup> , 5ST3015-2 <sup>2)</sup> 5ST3016 <sup>1)</sup>	5ST3020, 5ST3020-2 5ST3021, 5ST3021-2 5ST3022, 5ST3022-2	5ST3062
<b>Standards</b>	EN 62019; IEC/EN 60947-5-1; UL 1077; CSA C22.2 No. 235			
<b>Approvals</b>	see chapter "Appendix"			
<b>Short-circuit protection</b>	Miniature circuit breaker or gG 6 A fuse			
<b>Contact load</b>				
• Min.	50 mA, 24 V	1) = 1 mA/5 V DC 2) = 5 mA/5 V DC	50 mA, 24 V	50 mA, 24 V
• Max.	--	1) = 100 mA/30 V DC 2) = 30 mA/30 V DC	--	--
• Acc. to IEC/EN 62019 and 60947-5-1:				
400 V AC, AC-14, NO	A	2	2	2
230 V AC, AC-13, NO	A	6	6	6
400 V AC, AC-14, NC	A	2	2	2
230 V AC, AC-13, NC	A	6	6	6
• Acc. to IEC/EN 62019 (acc. to IEC/EN 60947-5-1):				
220 V DC, DC-13, NO + NC	A	1	1	0.5 (0.3)
110 V DC, DC-13, NO + NC	A	1	1	0.5 (0.5)
60 V DC, DC-13, NO + NC	A	3	3	3 (1)
24 V DC, DC-13, NO + NC	A	6	6	3 (3)
<b>Service life, on average, with rated load</b>	20000 actuations			
<b>Conductor cross-sections</b>	mm <sup>2</sup> AWG	0.5 ... 2.5 22 ... 14		
<b>Terminals</b>				
• Terminal tightening torque	Nm lb-in	0.5 4.5		
<b>Mounting position</b>	Any			
<b>Ambient temperature</b>	°C	-25 ... +55		
<b>Storage temperature</b>	°C	-40 ... +75		
<b>Resistance to climate</b>	Acc. to IEC 60068-2-30 Cycles	28		
<b>Shock</b>	Acc. to IEC 60068-2-27 m/s	50 at 11 ms half-sine		
<b>Resistance to vibrations</b>	Acc. to IEC 60068-2-6 m/s <sup>2</sup>	50 at 10 ... 150 Hz		

## Miniature Circuit Breakers



### Additional Components

#### Electrical components

		Undervoltage releases (UR)		Shunt trips (ST)	
		5ST304.	EN 60947-1	5ST3030	5ST3031
<b>Standards</b>			EN 60947-1		
<b>Rated voltages <math>U_n</math></b>	V AC	230		110 ... 415	24 ... 48
	V DC	24, 110		110 ... 220	24 ... 48
<ul style="list-style-type: none"> <li>Operating range <math>U_n</math></li> <li>Rated frequency <math>f_n</math></li> </ul>		0.85 ... 1.1 × $U_n$		0.7 ... 1.1 × $U_n$	
	Hz	--		50 ... 60	
<b>Response limits: Tripping</b>			< 0.35 ... 0.7 × $U_n$	--	
<b>Short-circuit protection</b>			Miniature circuit breakers B/C 6 A or fuse gG 6 A		
<b>Minimum contact load</b>			50 mA, 24 V		
<b>Tripping operations</b>			max. 2000		
<b>Service life, on average, with rated load</b>			20000 actuations		
<b>Conductor cross-sections</b>	mm <sup>2</sup>	0.5 ... 2.5			
	AWG	22 ... 14			
<b>Terminals</b>					
<ul style="list-style-type: none"> <li>Terminal tightening torque</li> </ul>	Nm	0.8			
	lb-in	6.8			
<b>Mounting position</b>			Any		
<b>Ambient temperature</b>	°C	-25 ... +55			
<b>Storage temperature</b>	°C	-40 ... +75			
<b>Resistance to climate</b>	Acc. to IEC 60068-2-30	Cycles	28		
<b>Shock</b>	Acc. to IEC 60068-2-27	m/s	50 at 11 ms half-sine		
<b>Resistance to vibrations</b>	Acc. to IEC 60068-2-6	m/s <sup>2</sup>	50 at 10 ... 150 Hz		
<b>Switching frequency</b>			--		
<b>Switching duration</b>	s		--		
<b>Minimum command duration</b>	s		--		
<b>Rated power dissipation</b>	VA		--		
<b>Rated frequency</b>	Hz		50/60		






For technical specifications of RC units, see chapter "Residual Current Protective Devices / Arc Fault Detection Devices (AFDDs)".

#### Selection and ordering data

	Rated voltage	Mounting width	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	$U_n$ V	MW <sup>1)</sup>	d					
	<b>Auxiliary switches (AS)</b>							
	For 5SL, 5SY, 5SP and 5TL1 miniature circuit breakers, 5SU1 RCBOs, for 5SV residual current protective devices and 5TE8 switches							
	1 NO + 1 NC	0.5	▶	<b>5ST3010</b>		1	1 unit	1AD
	For low power		▶	<b>5ST3013</b>		1	1 unit	1AD
	For low power (with diode) <b>NEW</b>		▶	<b>5ST3013-0XX01</b>		1	1 unit	1AD
	2 NO			<b>5ST3011</b>		1	1 unit	1AD
	For low power			<b>5ST3014</b>		1	1 unit	1AD
2 NC			<b>5ST3012</b>		1	1 unit	1AD	
For low power			<b>5ST3015</b>		1	1 unit	1AD	
1 W <b>NEW</b>			<b>5ST3016</b>		1	1 unit	1AD	
	<b>Auxiliary switches (AS) with TEST button</b>							
	For 5SL, 5SY, 5SP and 5TL1 miniature circuit breakers, 5SU1, 5TL1 RCBOs, for 5SV residual current protective devices and 5TE8 switches							
	1 NO + 1 NC	0.5		<b>5ST3010-2</b>		1	1 unit	1AD
	For low power			<b>5ST3013-2</b>		1	1 unit	1AD
	2 NO			<b>5ST3011-2</b>		1	1 unit	1AD
	For low power			<b>5ST3014-2</b>		1	1 unit	1AD
	2 NC			<b>5ST3012-2</b>		1	1 unit	1AD
For low power			<b>5ST3015-2</b>		1	1 unit	1AD	

<sup>1)</sup> 1 MW (modular width) = 18 mm.



	Rated voltage $U_n$ V	Mounting width MW <sup>1)</sup>	SD d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	<b>Fault signal contacts (FC)</b>							
	For 5SL, 5SY, 5SP miniature circuit breakers, 5SU1 RCBOs, for 5SV residual current protective devices							
	1 NO + 1 NC 2 NO 2 NC	0.5	▶	<b>5ST3020</b> <b>5ST3021</b> <b>5ST3022</b>		1 1 1	1 unit 1 unit 1 unit	1AD 1AD 1AD
	<b>Fault signal contacts (FC) with TEST and ACKNOWLEDGE button</b>							
	For 5SL, 5SY, 5SP miniature circuit breakers, 5SU1 RCBOs, for 5SV residual current protective devices							
	1 NO + 1 NC 2 NO 2 NC	0.5	▶	<b>5ST3020-2</b> <b>5ST3021-2</b> <b>5ST3022-2</b>		1 1 1	1 unit 1 unit 1 unit	1AD 1AD 1AD
	<b>Auxiliary switches (AS) and fault signal contacts (FC)</b> <span style="background-color: yellow;">NEW</span>							
	For 5SL, 5SY, 5SP miniature circuit breakers, 5SU1 RCBOs, 5SV RCCBs and 5TE8 switches (the 5ST3805-1 handle coupler is required for 5SU1)							
	1 CO (of which 1 x FS)	0.5		<b>5ST3062</b>		1	1 unit	1AD
	<b>Undervoltage releases (UR)</b>							
	For 5SL4, 5SY, 5SP miniature circuit breakers, 5SU1 RCBOs, for 5SV residual current protective devices, but not for 5SY60.. and 5SL6 miniature circuit breakers							
	With integrated auxiliary switch							
	230 AC 110 DC 24 DC	1	▶	<b>5ST3040</b> <b>5ST3041</b> <b>5ST3042</b>		1 1 1	1 unit 1 unit 1 unit	1AD 1AD 1AD
	Without integrated auxiliary switch							
	230 AC 110 DC 24 DC	1	▶	<b>5ST3043</b> <b>5ST3044</b> <b>5ST3045</b>		1 1 1	1 unit 1 unit 1 unit	1AD 1AD 1AD
	<b>Shunt trips (ST)</b>							
	For 5SL4, 5SY, 5SP miniature circuit breakers, 5SU1 RCBOs, for 5SV residual current protective devices, but not for 5SY60.. and 5SL6 miniature circuit breakers							
	110 ... 415 V AC 24 ... 48 V AC/DC AC/DC 12 V <span style="background-color: yellow;">NEW</span>	1 1 1	▶ ▶ ▶	<b>5ST3030</b> <b>5ST3031</b> <b>5ST3031-0XX01</b>		1 1 1	1 unit 1 unit 1 unit	1AD 1AD 1AD

<sup>1)</sup> 1 MW (modular width) = 18 mm.

Rated residual current $I_{\Delta n}$ mA	Rated current $I_n$ A	Mounting width MW <sup>1)</sup>	SD d	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
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### RC units



**For further information on RC units,**  
see chapter "Residual Current Protective Devices / Arc  
Fault Detection Devices (AFDDs)".

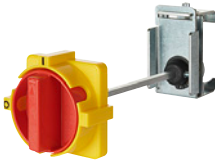




<sup>1)</sup> 1 MW (modular width) = 18 mm.

## Miniature Circuit Breakers





### Additional Components

#### Mechanical components

#### Selection and ordering data

Version	Mounting width	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW <sup>1)</sup>	d					
			<b>Mechanical rotary operating mechanism complete with handle</b> <ul style="list-style-type: none"> <li>For 5SY, but not for 5SYx0 1+N in 1 MW</li> <li>For 5SP4, 5SL, 5TL1, 5TE2, 5TE8, 5SU1</li> </ul>				
			<b>Versions</b> <ul style="list-style-type: none"> <li>Handle black</li> <li>Handle red/yellow</li> </ul>				
			<b>5ST3060</b> <b>5ST3061</b>		1 1	1 unit 1 unit	1AD 1AD
			<b>Terminal covers</b> For miniature circuit breakers, but not for 5SY60. . For additional covering of the screw openings per pole, sealable. In the case of 5SY, also prevents removal of device from the standard mounting rail.				
			<b>5ST3800</b>		1	10 units	1AD
			<b>Handle locking devices</b> Sealable to prevent undesired mechanical ON/OFF switching For 5SP and 5SY miniature circuit breakers For padlock with max. 3 mm shackle				
			<b>5ST3801</b>		1	1 unit	1AD
			For 5SL, 5SV, 5TL1 miniature circuit breakers For padlock with 3 ... 6 mm shackle				
			<b>5ST3806</b>		1	5 units	1AD
			<b>Padlocks</b> Padlocks for 5ST3801 and 5ST3806 locking devices, 5ST30 remote controlled mechanisms (except for 5ST3053).				
			<b>5ST3802</b>		1	1 unit	1AD
			<b>Locking devices</b> For 5SP and 5SY miniature circuit breakers comprising 5ST3801 handle locking device and 5ST3802 padlock				
			<b>5ST3803</b>		1	1 set	1AD
			<b>Locking devices</b> For 5SL, 5SV, 5TL1 miniature circuit breakers, comprising 5ST3806 handle locking device and 5ST3802 padlock				
			<b>5ST3807</b>		1	1 set	1AD
		0.5	<b>Spacers</b> Can be placed on either side of the standard mounting rail. Two spacers allow for convenient cable routing				
			<b>5TG8240</b>		1	2 units	1BK
			<b>Device labels</b> Adhesive, for modular installation devices, e.g. 5SY, 5SL, 5TL1, etc.				
			<b>Versions</b> <ul style="list-style-type: none"> <li>15 mm x 6 mm, white (WIN 098)</li> <li>15 mm x 6 mm, yellow (WIN 099)</li> </ul>				
			<b>8WH8210-0AA35</b> <b>8WH8210-0AA36</b>		100 100	3740 units 3740 units	1BT 1BT

<sup>1)</sup> 1 MW (modular width) = 18 mm.

Version	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Labeling system</b>						
Available from:		Murrplastik Systemtechnik GmbH Postfach 1143 71570 Oppenweiler, Germany Telephone: +49 7191-482-0 Email: <a href="mailto:info@murrplastik.de">info@murrplastik.de</a>				
	<b>Terminal covers, gray</b> For surface mounting, degree of protection IP40, sealable, with 35 mm standard mounting rail • Up to 2.5 MW • Up to 4.5 MW	<b>5SW3004</b> <b>5SW3005</b>		1 1	1 unit 1 unit	1BE 1BE
	<b>Wall enclosures, gray</b> For flush mounting, degree of protection IP40, with 35 mm standard mounting rail • Up to 2.5 MW • Up to 4.5 MW	<b>5SW3006</b> <b>5SW3007</b>		1 1	1 unit 1 unit	1BE 1BE
	<b>Molded-plastic enclosures, gray</b> For surface mounting, degree of protection IP54, with 35 mm standard mounting rail, sealable, with transparent hinged lid For 4.5 MW	<b>5SW1200</b>		1	1 unit	1BE
	<b>Covers</b> Can be assembled as mini distribution board, suitable for all devices, cover parts prepared for rail mounting of conventional label caps, comprising: • End plates (for snapping onto standard mounting rail) • Angled profile (approx. 1 m long) • Alternative flat profiles (as a cover between the rows of devices, length approx. 1 m)	<b>5ST2134</b> <b>5ST2135</b> <b>5ST2136</b>		1 1 1	10 units 5 units 5 units	1AD 1AD 1AD
	<b>Holders for front panel installation</b> Universal use for devices from 1 to 6 MW Cutout dimensions: Height 45 <sup>+0.5</sup> mm Width 23, 41, 59, 77, 95 or 113 mm	<b>7LF9006</b>		1	1 unit	1BK
	<b>Intermediate frames for 70 mm devices in 55 mm ALPHA SIMBOX small distribution boards</b> Versions • 1-tier • 2-tier • 3-tier • 4-tier	<b>8GB4561</b> <b>8GB4562</b> <b>8GB4563</b> <b>8GB4564</b>		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1BO 1BO 1BO 1BO
For further information on ALPHA distribution boards, ALPHA SIMBOX small distribution boards and intermediate frames, see <a href="#">chapter "Power Distribution Boards / Distribution Boards"</a> .						

## Miniature Circuit Breakers

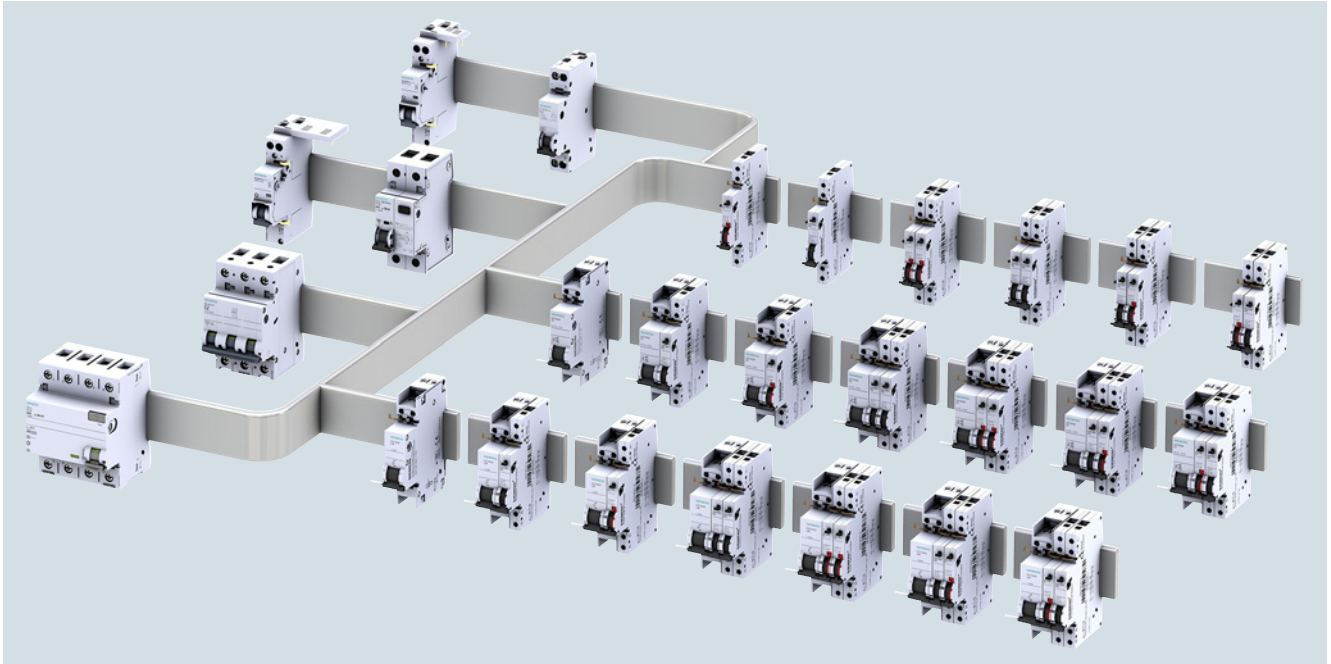
### Additional Components

#### Mechanical components

##### More information

The Siemens mounting concept supports the combination of all 5ST3 additional components with miniature circuit breakers of the 5SY and 5SP series and RCBOs of the 5SU1 series.

5SL and 5SY60.. miniature circuit breakers are suitable for mounting auxiliary switches and fault signal contacts. Auxiliary switches can also be mounted on 5TE8 flush-mounting circuit breakers and 5SG71 MINIZED switch disconnectors. In the case of the 5SY6 miniature circuit breaker and in the case of the RCBO, the arc fault detection device can be mounted on the left-hand side.



For further information on the mounting concept for RCBOs, see chapter "Residual Current Protective Devices / Arc Fault Detection Devices (AFDDs)".

### Overview

The busbar system with pin-type connections can be used for all 5SL6, 5SJ6...-KS and 5SY miniature circuit breakers with or without mounted auxiliary switch (AS) or fault signal contact (FC).

Busbars in 10 mm<sup>2</sup> and 16 mm<sup>2</sup> versions are available.

With bars that can be cut to length, the 5ST37 busbar system can be tailored to any requirements.

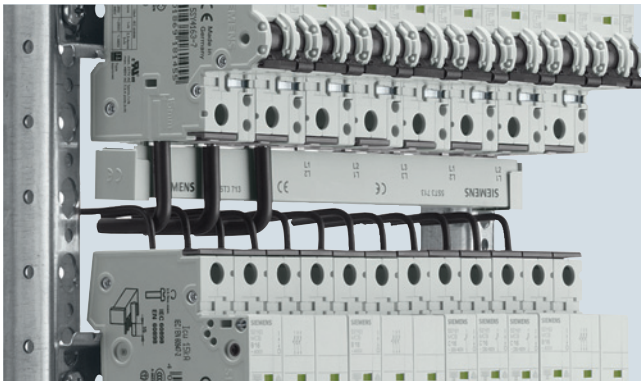
The extremely flexible 5ST36 busbar system with fixed lengths also enables installation in any length as the busbars can be overlapped.

There is no further need for time-consuming tasks, such as cutting, cutting to length, deburring, cleaning of cut surfaces and mounting of end caps.

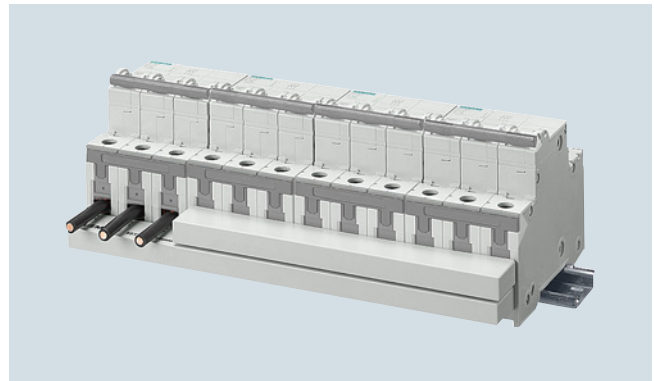
Any free pins on the busbars can be made safe by covering with touch protection.

For further information on the bus-mounting of miniature circuit breakers with residual current operated circuit breakers, see chapter "Residual Current Protective Devices / Arc Fault Detection Devices (AFDDs)".

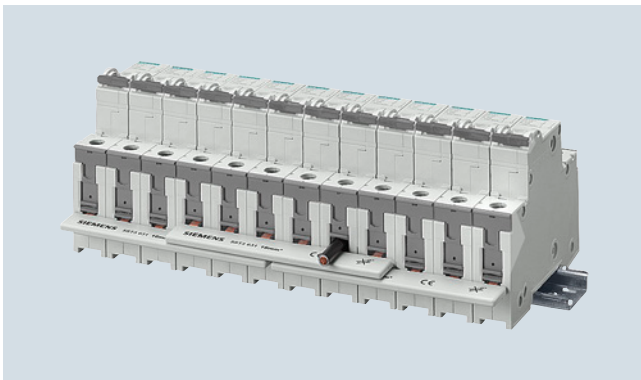
### Benefits



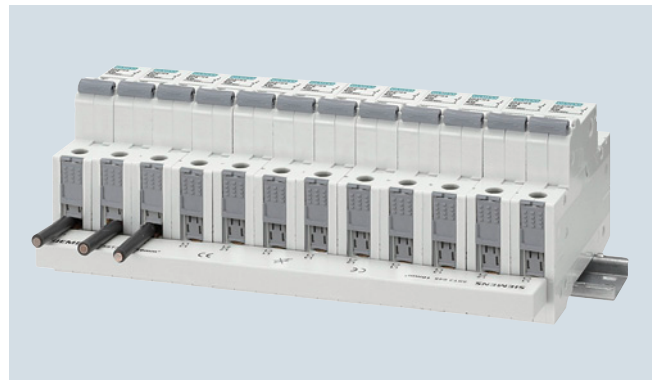
- Between the rows of devices, the busbar, which is located at the bottom and behind the conductor, provides an optimum wiring space with easy view of the inserted conductor. This enables easy control of connections.



- The ability to overlap when mounting the busbars enables a cross-section enlargement of up to 32 mm<sup>2</sup> using the respective components, 10 mm<sup>2</sup> and 16 mm<sup>2</sup>.



- By overlapping the busbars with fixed lengths, it is possible to achieve device combinations with any number of devices.



- The fact that the connection of the conductor is always clearly visible facilitates cable entry of all pole types and considerably reduces mounting times.

# Miniature Circuit Breakers

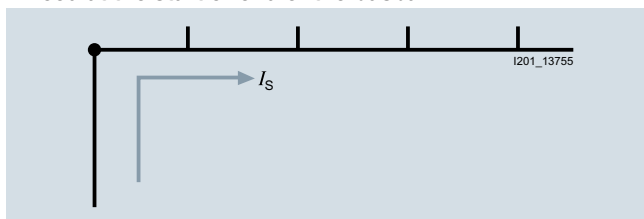
## Busbars

### 5ST standard busbars

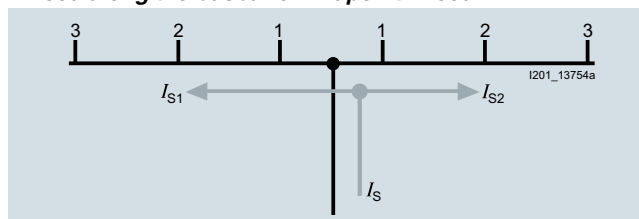
#### Technical specifications

		5ST3
<b>Standards</b>		EN 60439-1 (VDE 0660-500): 2005-01
<b>Busbar material</b>		SF-Cu F 24
<b>Partition material</b>		Plastic, Cycoloy 3600 Heat-resistant over 90 °C Flame-retardant and self-extinguishing, dioxin and halogen-free
<b>Rated operational voltage <math>U_c</math></b>	V AC	400
<b>Rated current <math>I_n</math></b>		
• Cross-section 10 mm <sup>2</sup>	A	63
• Cross-section 16 mm <sup>2</sup>	A	80
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>	kV	4
<b>Test pulse voltage (1.2/50)</b>	kV	6.2
<b>Rated conditional short-circuit current <math>I_{cc}</math></b>	kA	25
<b>Resistance to climate</b>		
• Constant atmosphere	Acc. to DIN 50015	23/83; 40/92; 55/20
• Humid heat	Acc. to IEC 60068-2-30	28 cycles
<b>Insulation coordination</b>		
• Overvoltage category		III
• Pollution degree		2
<b>Maximum busbar current <math>I_S</math> per phase</b>		
• Infeed at the start of the busbar		
- Cross-section 10 mm <sup>2</sup>	A	63
- Cross-section 16 mm <sup>2</sup>	A	80
• Infeed at the center of the busbar		
- Cross-section 10 mm <sup>2</sup>	A	100
- Cross-section 16 mm <sup>2</sup>	A	130

**Infeed at the start or end of the busbar**


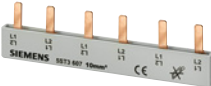

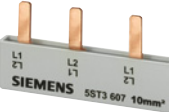


**Infeed along the busbar or midpoint infeed**



The sum of the outgoing current per branch (1, 2, 3 ... n) must not be greater than the max. busbar current  $I_S$ /phase.

### Selection and ordering data

	Pin spacing	Length	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW <sup>1)</sup>	mm	d					
<b>5ST36 busbar systems, 10 mm<sup>2</sup>, for miniature circuit breakers, fixed lengths, cannot be cut, fully insulated</b>								
  	<b>Single-phase</b>							
	For 2 MCBs 1P	1	33	<b>5ST3600</b>		1	10 units	1AD
	For 6 MCBs 1P		105	<b>5ST3601</b>		1	10 units	1AD
	For 12 MCBs 1P		210	<b>5ST3602</b>		1	10 units	1AD
	<b>Single-phase, for MCBs with AS or FC</b>							
	For 2 MCBs 1P	1.5	40	<b>5ST3603</b>		1	10 units	1AD
	For 6 MCBs 1P		156.5	<b>5ST3604</b>		1	10 units	1AD
	For 9 MCBs 1P		237	<b>5ST3605</b>		1	10 units	1AD
	<b>Two-phase</b>							
	For 2 MCBs 2P	1	75.5	<b>5ST3606</b>		1	10 units	1AD
	For 3 MCBs 2P		105	<b>5ST3607</b>		1	10 units	1AD
	For 6 MCBs 2P		210	<b>5ST3608</b>		1	10 units	1AD
	<b>Three-phase</b>							
	For 2 MCBs 3P	1	102	<b>5ST3613</b>		1	10 units	1AD
	For 3 MCBs 3P		157.5	<b>5ST3614</b>		1	10 units	1AD
For 4 MCBs 3P		210	<b>5ST3615</b>		1	10 units	1AD	
<b>Three-phase, for MCBs with AS or FC</b>								
For 2 MCBs 3P	1+1+1.5	115	<b>5ST3616</b>		1	10 units	1AD	
For 4 MCBs 3P		237	<b>5ST3617</b>		1	10 units	1AD	
For 6 MCBs 1P	1.5	125	<b>5ST3618</b>		1	10 units	1AD	
For 9 MCBs 1P		229	<b>5ST3620</b>		1	10 units	1AD	
<b>Three-phase</b>								
For 1 RCCB 4P N right and 8 MCBs 1P	1	210	<b>5ST3624</b>		1	10 units	1AD	
For 1 RCCB 4P N left and 8 MCBs 1P	1	192	<b>5ST3667</b>		1	10 units	1AD	
<b>Four-phase</b>								
For 2 MCBs 4P or 3P+N	1	145	<b>5ST3621</b>		1	10 units	1AD	
For 3 MCBs 4P or 3P+N		215	<b>5ST3622</b>		1	10 units	1AD	
For 6 MCBs 2P or 1P+N		215	<b>5ST3623</b>		1	10 units	1AD	
<b>5ST36 busbars, 16 mm<sup>2</sup>, for miniature circuit breakers, fixed lengths, cannot be cut, fully insulated</b>								
  	<b>Single-phase</b>							
	For 2 MCBs 1P	1	33	<b>5ST3630</b>		1	10 units	1AD
	For 6 MCBs 1P		105	<b>5ST3631</b>		1	10 units	1AD
	For 12 MCBs 1P		210	<b>5ST3632</b>		1	10 units	1AD
	<b>Single-phase, for MCBs with AS or FC</b>							
	For 2 MCBs 1P	1.5	40	<b>5ST3633</b>		1	10 units	1AD
	For 6 MCBs 1P		156.5	<b>5ST3634</b>		1	10 units	1AD
	For 9 MCBs 1P		237	<b>5ST3635</b>		1	10 units	1AD
	<b>Two-phase</b>							
	For 2 MCBs 2P	1	75.5	<b>5ST3636</b>		1	10 units	1AD
	For 3 MCBs 2P		105	<b>5ST3637</b>		1	10 units	1AD
	For 6 MCBs 2P		210	<b>5ST3638</b>		1	10 units	1AD
	<b>Two-phase, for MCBs with AS or FC</b>							
	For 2 MCBs 2P	1 + 1.5	75.5	<b>5ST3640</b>		1	10 units	1AD
	For 3 MCBs 2P		120.5	<b>5ST3641</b>		1	10 units	1AD
For 5 MCBs 2P		210	<b>5ST3642</b>		1	10 units	1AD	

<sup>1)</sup> 1 MW (modular width) = 18 mm.



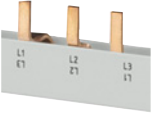
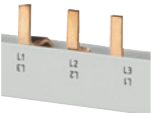


# Miniature Circuit Breakers

## Busbars

### 5ST standard busbars

	Pin spacing	Length	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW <sup>1)</sup>	mm	d					
<b>5ST36 busbars, 16 mm<sup>2</sup>, for miniature circuit breakers, fixed lengths, cannot be cut, fully insulated</b>								
<b>Three-phase</b>								
For 2 MCBs 3P	1	102.5		<b>5ST3643</b>		1	10 units	1AD
For 3 MCBs 3P		157.5		<b>5ST3644</b>		1	10 units	1AD
For 4 MCBs 3P		210	▶	<b>5ST3645</b>		1	10 units	1AD
<b>Three-phase, for MCBs with AS or FC</b>								
For 2 MCBs 3P	1+1+1.5	115		<b>5ST3646</b>		1	10 units	1AD
For 4 MCBs 3P		237		<b>5ST3647</b>		1	10 units	1AD
For 6 MCBs 1P	1.5	156		<b>5ST3648</b>		1	10 units	1AD
For 9 MCBs 1P		245		<b>5ST3650</b>		1	10 units	1AD
<b>Three-phase</b>								
For 1 RCCB 4P N right and 8 MCBs 1P	1	210		<b>5ST3654</b>		1	10 units	1AD
For 1 RCCB 4P N left and 8 MCBs 1P	1	210		<b>5ST3668</b>		1	10 units	1AD
<b>Four-phase</b>								
For 2 MCBs 4P or 3P+N	1			<b>5ST3651</b>		1	10 units	1AD
For 3 MCBs 4P or 3P+N				<b>5ST3652</b>		1	10 units	1AD
For 6 MCBs 2P or 1P+N				<b>5ST3653</b>		1	10 units	1AD
<b>Touch protection</b>								
For free connections, yellow (RAL 1004) 5 x 1 pin			▶	<b>5ST3655</b>		1	10 units	1AD
<b>10 mm<sup>2</sup></b>								
20 x 5ST3613 + 10 x 5ST3614 + 50 x 5ST3615 + 50 x 5ST3655				<b>5ST3656</b>		1	1 set	1AD
<b>16 mm<sup>2</sup></b>								
20 x 5ST3643 + 10 x 5ST3644 + 50 x 5ST3645 + 50 x 5ST3655				<b>5ST3657</b>		1	1 set	1AD
<b>5ST37 busbar system, 10 mm<sup>2</sup>, 12 MW for miniature circuit breakers, can be cut, with end caps</b>								
<b>Single-phase, angled</b>								
For 12 MCBs 1P	1	214		<b>5ST3730</b>		1	1 unit	1AD
For 9 MCBs 1P with AS or FC	1.5			<b>5ST3732</b>		1	1 unit	1AD
<b>Two-phase</b>								
For 6 MCBs 2P	1			<b>5ST3734</b>		1	1 unit	1AD
For 4 MCBs 2P with AS or FC	1+1.5			<b>5ST3736</b>		1	1 unit	1AD
<b>Three-phase</b>								
For 4 MCBs 3P	1		▶	<b>5ST3738</b>		1	1 unit	1AD
For 3 MCBs 3P with AS or FC	1+1+1.5			<b>5ST3741</b>		1	1 unit	1AD
For 3 MCBs 1P with AS or FC	1.5			<b>5ST3743</b>		1	1 unit	1AD
<b>Four-phase</b>								
For 3 MCBs 4P or 3P+N	1			<b>5ST3745</b>		1	1 unit	1AD
<b>5ST37 busbar system, 10 mm<sup>2</sup>, 56 MW for miniature circuit breakers, can be cut, without end caps</b>								
<b>Single-phase, angled</b>								
For MCBs 1P	1	1016		<b>5ST3731</b>		1	1 unit	1AD
For MCBs 1P with AS or FC	1.5			<b>5ST3733</b>		1	1 unit	1AD
<b>Two-phase</b>								
For MCBs 1P and UR or AR	2			<b>5ST3735-2</b>		1	1 unit	1AD
For MCBs 2P	1			<b>5ST3735</b>		1	1 unit	1AD
For MCBs 2P with AS or FC	1+1.5			<b>5ST3737</b>		1	1 unit	1AD
<b>Three-phase</b>								
For MCBs 3P	1		▶	<b>5ST3740</b>		1	1 unit	1AD
For MCBs 3P with AS or FC	1+1+1.5			<b>5ST3742</b>		1	1 unit	1AD
For MCBs 1P with AS or FC	1.5			<b>5ST3744</b>		1	1 unit	1AD
<b>Four-phase</b>								
For MCBs 4P or 3P+N	1			<b>5ST3746</b>		1	1 unit	1AD
For MCBs 2P with AS or FC and RCBOs 1P+N with AS or FC	1+1.5			<b>5ST3746-2</b>		1	1 unit	1AD

<sup>1)</sup> 1 MW (modular width) = 18 mm.



	Pin spacing	Length	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW <sup>1)</sup>	mm	d					
<b>5ST37 busbar system, 16 mm<sup>2</sup>, 12 MW for miniature circuit breakers, can be cut, with end caps</b>								
	<b>Single-phase, angled</b>							
	For MCBs 1P	1	214	▶	<b>5ST3700</b>	1	1 unit	1AD
	For MCBs 1P with AS or FC	1.5			<b>5ST3702</b>	1	1 unit	1AD
	<b>Two-phase</b>							
	For MCBs 2P	1		▶	<b>5ST3704</b>	1	1 unit	1AD
	For MCBs 2P with AS or FC	1+1.5			<b>5ST3706</b>	1	1 unit	1AD
	<b>Three-phase</b>							
	For MCBs 3P	1		▶	<b>5ST3708</b>	1	1 unit	1AD
	For MCBs 3P with AS or FC	1+1+1.5			<b>5ST3711</b>	1	1 unit	1AD
	For MCBs 1P with AS or FC	1.5			<b>5ST3713</b>	1	1 unit	1AD
	<b>Four-phase</b>							
	For MCBs 4P or 3P+N	1			<b>5ST3715</b>	1	1 unit	1AD
<b>5ST37 busbar system, 16 mm<sup>2</sup>, 56 MW for miniature circuit breakers, can be cut, without end caps</b>								
	<b>Single-phase, angled</b>							
	For MCBs 1P	1	1016	▶	<b>5ST3701</b>	1	1 unit	1AD
	For MCBs 1P with AS or FC	1.5		▶	<b>5ST3703</b>	1	1 unit	1AD
	<b>Two-phase</b>							
	For MCBs 2P	1		▶	<b>5ST3705</b>	1	1 unit	1AD
	For MCBs 2P with AS or FC	1+1.5			<b>5ST3707</b>	1	1 unit	1AD
	<b>Three-phase</b>							
	For MCBs 3P	1		▶	<b>5ST3710</b>	1	1 unit	1AD
	For MCBs 3P with AS or FC	1+1+1.5		▶	<b>5ST3712</b>	1	1 unit	1AD
	For MCBs 1P with AS or FC	1.5			<b>5ST3714</b>	1	1 unit	1AD
	<b>Four-phase</b>							
	For MCBs 4P or 3P+N	1			<b>5ST3716</b>	1	1 unit	1AD
<b>5ST37 busbar system, 10 mm<sup>2</sup>, 56 MW can be cut, without end caps, with touch protection</b>								
<b>Four-phase</b>								
For MCBs 2P and RCBOs 1P+N	1	1000		<b>5ST3770-2</b>		1 10 units	1AD	
<b>5ST37 busbar system, 16 mm<sup>2</sup>, 56 MW can be cut, without end caps, with touch protection</b>								
<b>Four-phase</b>								
For MCBs 2P and RCBOs 1P+N	1	1000		<b>5ST3770-3</b>		1 10 units	1AD	
<b>5ST37 busbar system, 10 mm<sup>2</sup>, 16 MW can be cut, with end caps, with touch protection</b>								
<b>Four-phase</b>								
For RCCBs 4P, N right and 6 MCBs 1P+N	1	292		<b>5ST3770-4</b>		1 10 units	1AD	
<b>5ST37 busbar system, 16 mm<sup>2</sup>, 16 MW can be cut, with end caps, with touch protection</b>								
<b>Four-phase</b>								
For RCCBs 4P, N right and 6 MCBs 1P+N	1	292		<b>5ST3770-5</b>		1 10 units	1AD	
<b>End caps for 5ST37, can be cut</b>								
	For single-phase busbars			▶	<b>5ST3748</b>	1	10 units	1AD
	For two-phase and three-phase busbars			▶	<b>5ST3750</b>	1	10 units	1AD
	For four-phase busbars			▶	<b>5ST3718</b>	1	10 units	1AD
<b>Terminals for 5ST36 and 5ST37 busbars</b>								
	<b>Terminals for conductors up to 25 mm<sup>2</sup></b>							
	• With cable entry in the center				<b>5ST3768-3</b>	1	10 units	1AD
	• With cable entry on the left				<b>5ST3768-4</b>	1	10 units	1AD
	• With cable entry on the right				<b>5ST3768-5</b>	1	10 units	1AD
	<b>Terminals for conductors up to 50 mm<sup>2</sup></b>							
	• With cable entry in the center				<b>5ST3760-3</b>	1	10 units	1AD
	• With cable entry on the left				<b>5ST3760-4</b>	1	10 units	1AD
	• With cable entry on the right				<b>5ST3760-5</b>	1	10 units	1AD
	<b>Note</b>							
	The terminals are not suitable for 5ST376.							

<sup>1)</sup> 1 MW (modular width) = 18 mm.

## Miniature Circuit Breakers

### Busbars

#### 5ST standard busbars

	Length of cable	Number of phases	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	mm		d					
<b>Series connectors, 10 mm<sup>2</sup></b>								
	125	1		<b>5ST3781-0</b>		1	10 units	1AD
		3		<b>5ST3791-0</b>		1	10 units	1AD
				<b>5ST3793-0</b>		1	3 units	1AD
	150	1		<b>5ST3781-1</b>		1	10 units	1AD
		3		<b>5ST3791-1</b>		1	10 units	1AD
				<b>5ST3793-1</b>		1	3 units	1AD
<b>Series connectors, 16 mm<sup>2</sup></b>								
	125	1		<b>5ST3782-0</b>	1	10 units	1AD	
		3		<b>5ST3792-0</b>	1	10 units	1AD	
				<b>5ST3794-0</b>	1	3 units	1AD	
	150	1		<b>5ST3782-1</b>	1	10 units	1AD	
		3		<b>5ST3792-1</b>	1	10 units	1AD	
				<b>5ST3794-1</b>	1	3 units	1AD	
	200	1		<b>5ST3781-2</b>	1	10 units	1AD	
		3		<b>5ST3791-2</b>	1	10 units	1AD	
			3+N		<b>5ST3793-2</b>	1	3 units	1AD
				<b>5ST3793-3</b>	1	3 units	1AD	

3

	Pin spacing	Length	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW <sup>1)</sup>	mm	d					
<b>5ST37 busbar system, 10 mm<sup>2</sup>, 12 MW for 1+N miniature circuit breakers in 1 MW of the compact range, can be cut, with end caps</b>								
	<b>Single-phase</b>							
	For 12 MCBs 1+N, gray	1	216	<b>5ST3762</b>		1	10 units	1AD
	For 12 MCBs 1+N, blue	1		<b>5ST3763</b>		1	10 units	1AD
	For 12 MCBs 1+N, blue, straight	1		<b>5ST3687-0</b>		1	1 unit	1AD
	<b>NEW</b>							
<b>5ST37 busbar system, 10 mm<sup>2</sup>, 56 MW for 1+N miniature circuit breakers in 1 MW of the compact range, can be cut, without end caps</b>								
	<b>Single-phase</b>							
	For MCBs 1+N, gray	1	1016	<b>5ST3764</b>		1	10 units	1AD
	For MCBs 1+N, blue	1		<b>5ST3765</b>		1	10 units	1AD
	For MCBs 1+N, blue, straight	1		<b>5ST3787-0</b>		1	1 unit	1AD
	<b>NEW</b>							
<b>End caps for 5ST376</b>								
	1 set comprises a right and a left cap							
	Gray			<b>5ST3766</b>		1	10 sets	1AD
	Blue			<b>5ST3767</b>		1	10 sets	1AD
<b>Terminals</b>								
	<b>Terminals, short</b>							
	<ul style="list-style-type: none"> <li>For conductors up to 25 mm<sup>2</sup></li> <li>Infeed on side</li> <li>Specially for single-phase busbars and for 5ST3615-1 three-phase busbars</li> </ul>			<b>5ST3768</b>		1	25 units	1AD
	<b>Terminals, short, IP20</b>							
	<ul style="list-style-type: none"> <li>For conductors up to 25 mm<sup>2</sup></li> <li>Infeed on side</li> <li>Specially for single-phase busbars and for 5ST3615-1 three-phase busbars</li> </ul>			<b>5ST3771-2</b>		1	10 units	1AD

<sup>1)</sup> 1 MW (modular width) = 18 mm.

# Miniature Circuit Breakers

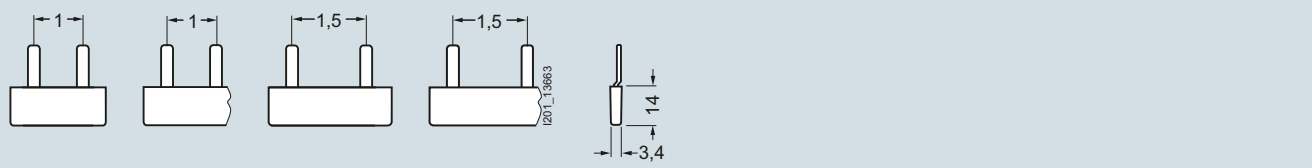
## Busbars

### 5ST standard busbars

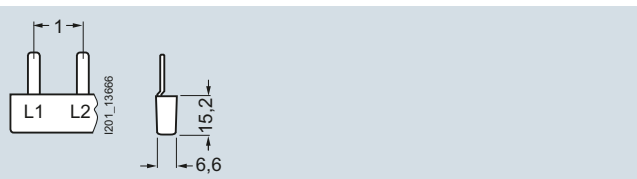
#### 5ST36

#### Pin spacing in MW (modular width; 1 MW = 18 mm)

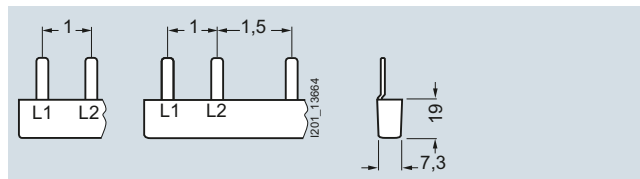
Dimensions of side view in mm (approx.)



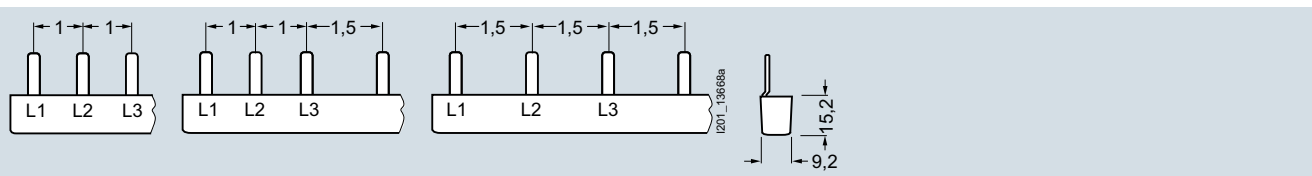
- |         |         |         |         |
|---------|---------|---------|---------|
| 5ST3600 | 5ST3601 | 5ST3603 | 5ST3604 |
| 5ST3630 | 5ST3602 | 5ST3633 | 5ST3605 |
|         | 5ST3631 |         | 5ST3634 |
|         | 5ST3632 |         | 5ST3635 |



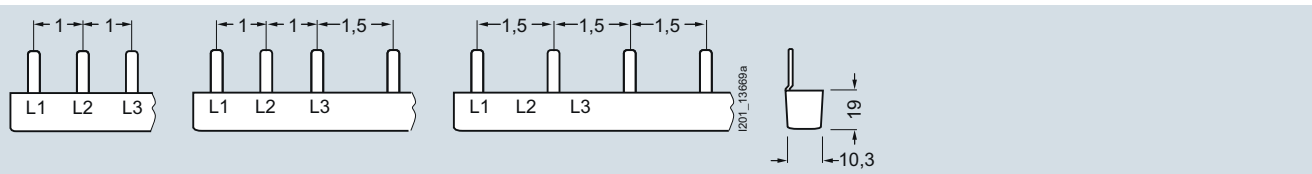
- 5ST3606  
5ST3607  
5ST3608



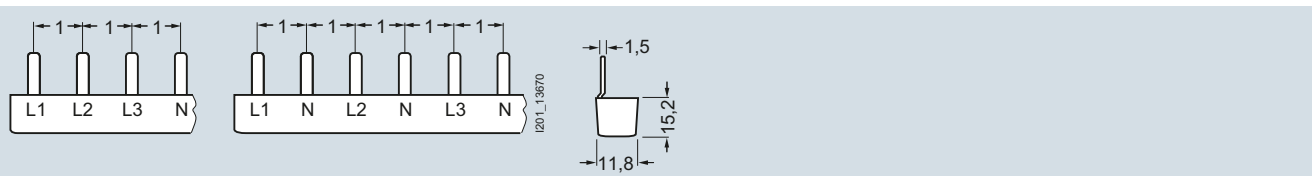
- |         |         |
|---------|---------|
| 5ST3636 | 5ST3640 |
| 5ST3637 | 5ST3641 |
| 5ST3638 | 5ST3642 |



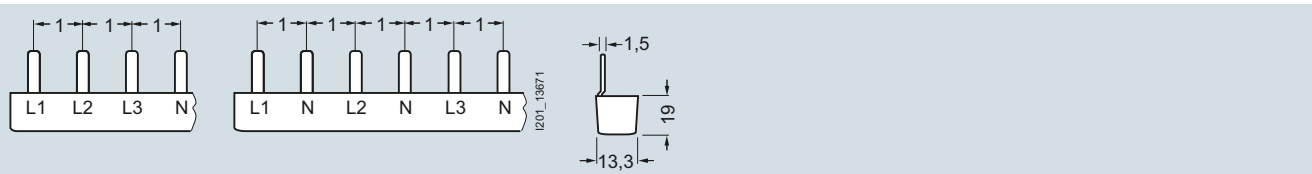
- |         |         |         |
|---------|---------|---------|
| 5ST3613 | 5ST3616 | 5ST3618 |
| 5ST3614 | 5ST3617 | 5ST3620 |
| 5ST3615 |         |         |
| 5ST3667 |         |         |



- |         |         |         |
|---------|---------|---------|
| 5ST3643 | 5ST3646 | 5ST3648 |
| 5ST3644 | 5ST3647 | 5ST3650 |
| 5ST3645 |         |         |
| 5ST3668 |         |         |



- |         |         |
|---------|---------|
| 5ST3621 | 5ST3623 |
| 5ST3622 |         |

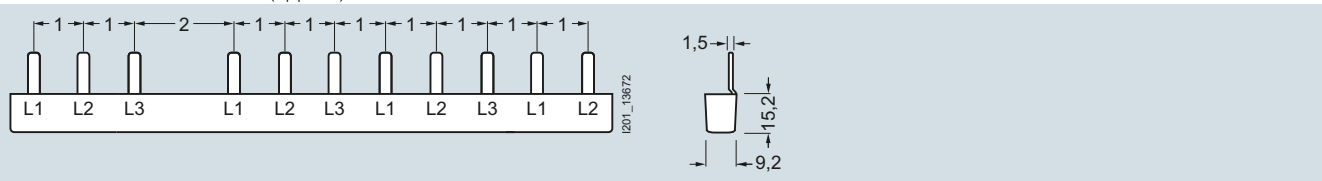


- |         |         |
|---------|---------|
| 5ST3651 | 5ST3653 |
| 5ST3652 |         |

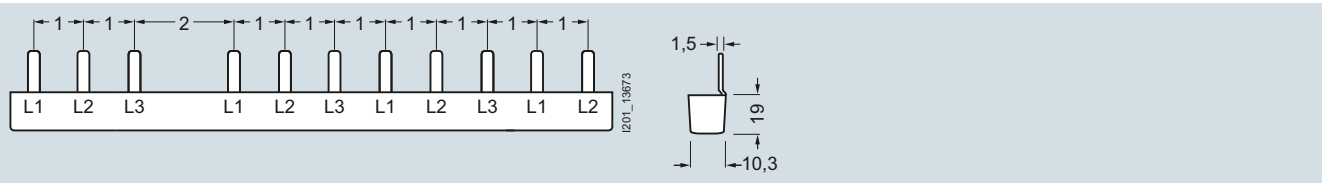
3

**5ST36**  
Pin spacing in MW (modular width; 1 MW = 18 mm)

Dimensions of side view in mm (approx.)



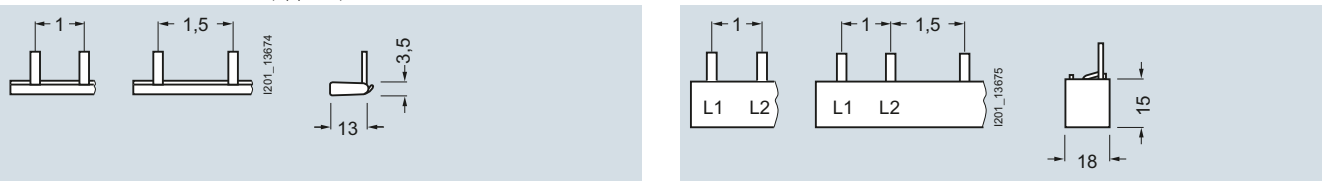
5ST3624



5ST3654

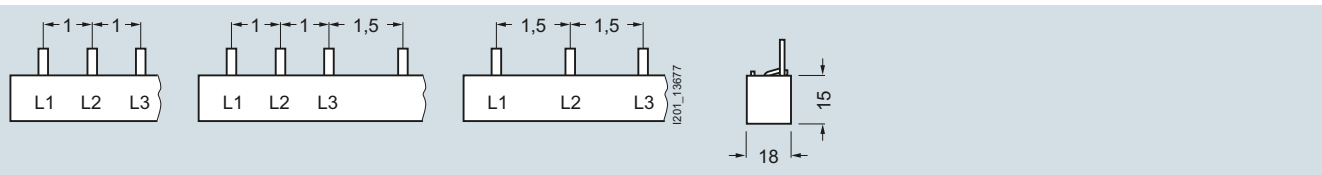
**5ST37**  
Pin spacing in MW (modular width; 1 MW = 18 mm)

Dimensions of side view in mm (approx.)

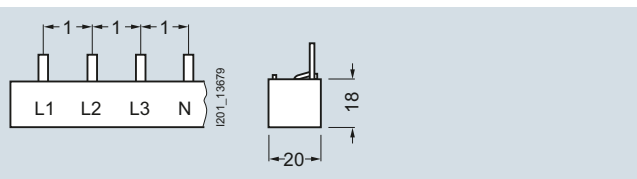


5ST3700 5ST3702  
5ST3701 5ST3703  
5ST3730 5ST3732  
5ST3731 5ST3733  
Single-phase Single-phase

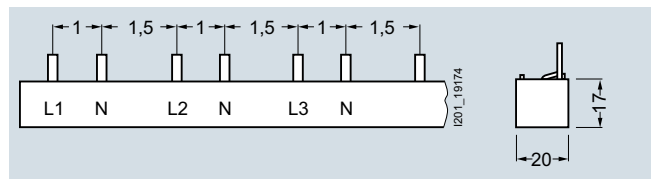
5ST3704 5ST3706  
5ST3705 5ST3707  
5ST3734 5ST3736  
5ST3735 5ST3737  
Two-phase Two-phase



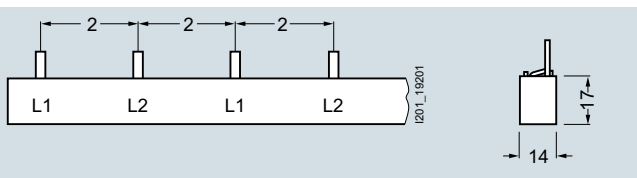
5ST3708 5ST3711 5ST3713  
5ST3710 5ST3712 5ST3714  
5ST3738 5ST3741 5ST3743  
5ST3740 5ST3742 5ST3744



5ST3715  
5ST3716  
5ST3745  
5ST3746



5ST3746-2



5ST3735-2

# Miniature Circuit Breakers

## Busbars

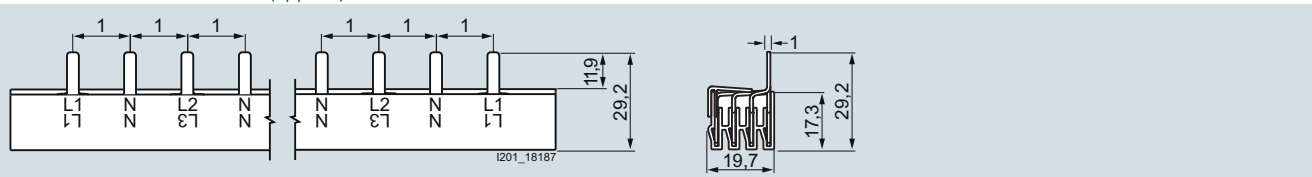
### 5ST standard busbars

#### 5ST37

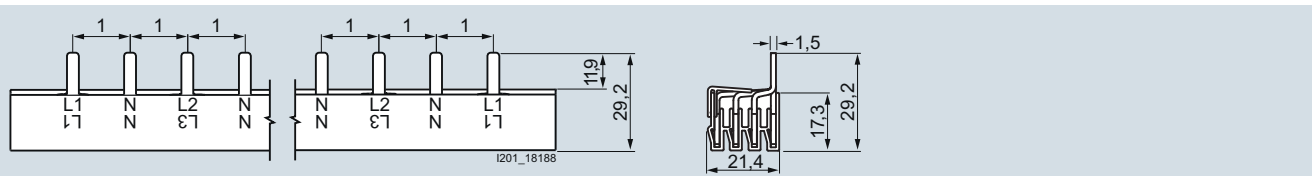
Pin spacing in MW (modular width; 1 MW = 18 mm)

Dimensions of side view in mm (approx.)

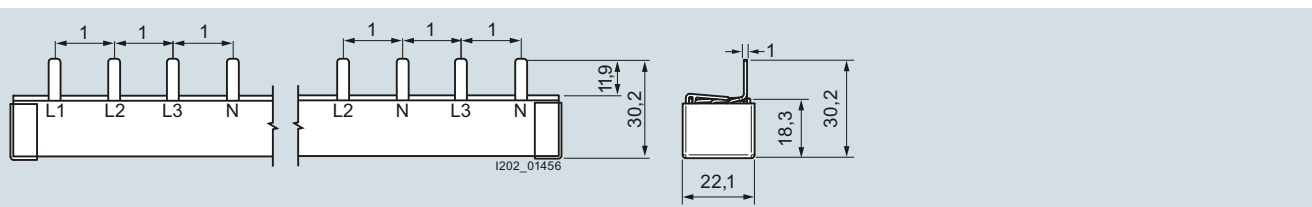
3



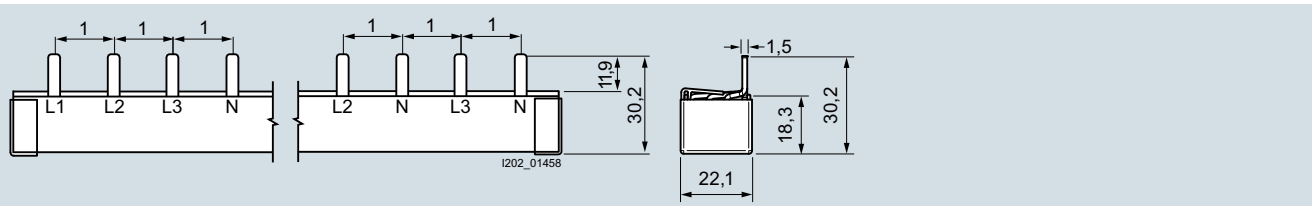
5ST3770-2



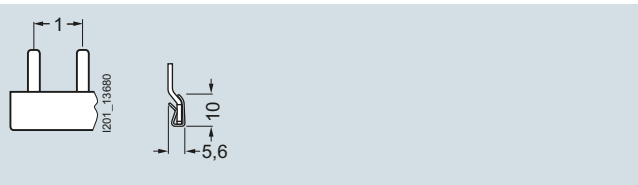
5ST3770-3



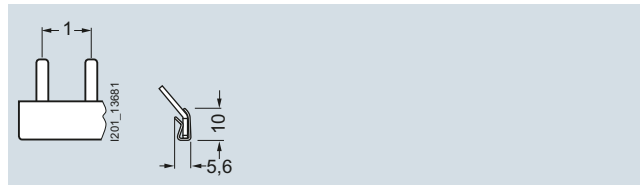
5ST3770-4



5ST3770-5



5ST3762  
5ST3764



5ST3763  
5ST3765



### Overview

Products according to UL standards are used in North America, but also in several other countries. This is important in particular for exporting machines or electrical switchboard assemblies and equipment to the USA. Acceptance and delivery are possible only if the relevant UL standards are satisfied.

The 5ST37 busbar system according to UL 508 and CSA is suitable for both universal use worldwide with all 5SY and 5SP miniature circuit breakers for "Supplementary Protection" certified according to UL 1077 and for 3NW and 3NC fuse holders certified according to UL 512. Not approved for use in feeder circuits.

The busbars are available in single, two and three-phase versions with different pin spacings and with two cross-sections, 18 mm<sup>2</sup> and 25 mm<sup>2</sup>. Infeed can be directly into the terminals of the miniature circuit breaker or through connection terminals.

The connection terminals are available in two versions – for direct infeed at the busbar or for infeed directly at the miniature circuit breaker/fuse holder. Pins that are not required can be covered with touch protection covers.

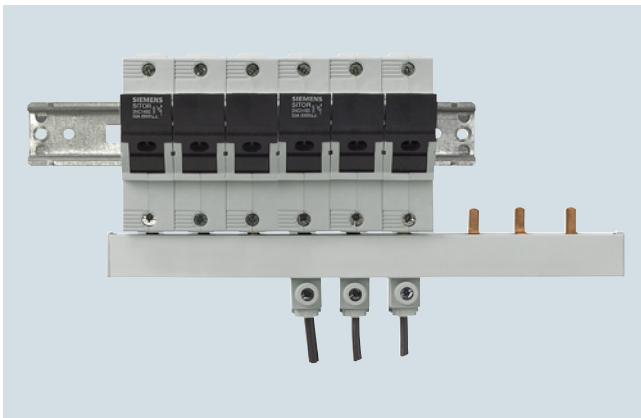
### Benefits



- Busbar with infeed through a connection terminal directly on the miniature circuit breaker up to a conductor cross-section of 35 mm<sup>2</sup>.



- Infeed directly on the miniature circuit breaker up to a conductor cross-section of 35 mm<sup>2</sup> and connection terminal for connection directly on the busbar up to a conductor cross-section of 50 mm<sup>2</sup>
- Suitable for universal use according to both IEC and UL standards
- Can be used for 5SY, 5SP miniature circuit breakers and for Class CC, SITON cylindrical and semiconductor fuse holders
- UL-tested combination – device and busbar
- Different cross-sections 18 mm<sup>2</sup> and 25 mm<sup>2</sup>



- Bus mounting with infeed at the fuse holder for conductor cross-sections up to 35 mm<sup>2</sup>.

# Miniature Circuit Breakers

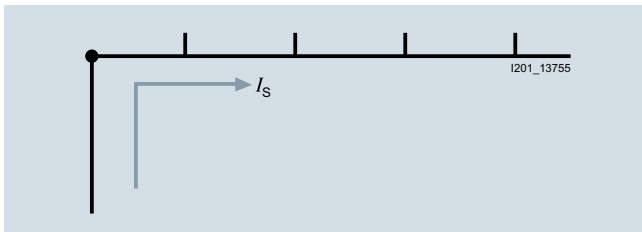
## Busbars

### 5ST3 busbars acc. to UL 508

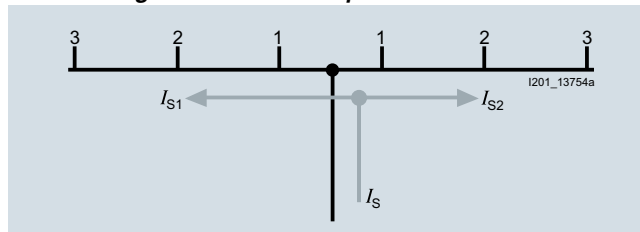
#### Technical specifications

		5ST37...-0HG	5ST37...-2HG	5ST3770-0HG	5ST3770-1HG
<b>Standards</b>		UL 508, CSA C22.2 No. 14-M 95 / IEC 60999			
<b>Approvals</b>		UL 508 File No. E328403 CSA			
<b>Operational voltage</b>					
• Acc. to IEC		V AC	690		
• Acc. to UL 508		V AC	600		
<b>Rated conditional short-circuit current</b>		kA	10		
• Dielectric strength		kV/mm	25		
• Surge strength		kV	> 9.5		
<b>Max. current</b>		UL	A	--	115
		IEC	A	--	160
<b>Maximum busbar current <math>I_S</math> per phase</b>					
• Infeed at the start of the busbar		A	80	100	--
• Infeed at the center of the busbar		A	160	200	--
<b>Insulation coordination</b>					
• Overvoltage category		III			
• Pollution degree		2			
<b>Short-circuit current load capability</b>		10000 A RMS sym. 600 V for three circuits			
18 mm <sup>2</sup>		100000 A RMS sym. for protection with Class J 175 A			
25 mm <sup>2</sup>		100000 A RMS sym. for protection with Class J 200 A			
<b>Busbar cross-section</b>		mm <sup>2</sup> Cu	18	25	--
<b>Infeed</b>		Any			
<b>Conductor cross-sections</b>		Solid	AWG	--	10 ... 1/0
			mm <sup>2</sup>	--	6 ... 35 (Cu 60 °C) 6 ... 50 (Cu 75 °C)
		Stranded	AWG	--	10 ... 2
			mm <sup>2</sup>	--	6 ... 35
<b>Terminals</b>		± screw (Pozidriv)	--	--	2
• Terminal tightening torque		Nm	--	--	5
		lb-in	--	--	35

#### Infeed at the start or end of the busbar














#### Infeed along the busbar or midpoint infeed



The sum of the outgoing current per branch (1, 2, 3 ... n) must not be greater than the max. busbar current  $I_S$ /phase.

### Selection and ordering data

	Pin spacing	Length	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW <sup>1)</sup>	mm	d					
<b>5ST37...-HG busbars acc. to UL 508, 18 mm<sup>2</sup>, can be cut, without end caps</b>								
	<b>Single-phase</b>							
	• For MCBs 1P (5SY) or fuse holders 10 x 38 mm/class CC (3NC1091, 3NW7513-0HG)	1	1000	<b>5ST3701-0HG</b>		1	1 unit	1AE
	• For MCBs 1P (5SY, 5SP) with AS or FC or fuse holders 14 x 51 mm (3NC1491, 3NW7111)	1.5	1000	<b>5ST3703-0HG</b>		1	1 unit	1AE
	<b>Two-phase</b>							
	• For MCBs 2P (5SY) or fuse holders 10 x 38 mm/class CC (3NC1092, 3NW7523-0HG)	1	1000	<b>5ST3705-0HG</b>		1	1 unit	1AE
	• For MCBs 2P (5SY) with AS or FC	1+1.5	1000	<b>5ST3707-0HG</b>		1	1 unit	1AE
	<b>Three-phase</b>							
	• For MCBs 3P (5SY) or fuse holders 10 x 38 mm/class CC (3NC1093, 3NW7533-0HG)	1	1000	<b>5ST3710-0HG</b>		1	1 unit	1AE
	• For MCBs 3P (5SY) with AS or FC	1+1+1.5	1000	<b>5ST3712-0HG</b>		1	1 unit	1AE
	• For MCBs 1P (5SY, 5SP) with AS or FC or fuse holders 14 x 51 mm (3NC1493, 3NW7131)	1.5	1000	<b>5ST3714-0HG</b>		1	1 unit	1AE
<b>5ST37...-HG busbars acc. to UL 508, 25 mm<sup>2</sup>, can be cut, without end caps</b>								
	<b>Single-phase</b>							
	For MCBs 1P (5SP) or fuse holders 14 x 51 mm (3NC1491, 3NW7111)	1.5	1000	<b>5ST3701-2HG</b>		1	1 unit	1AE
	<b>Two-phase</b>							
	For MCBs 2P (5SP) or fuse holders 14 x 51 mm (3NC1492, 3NW7121)	1.5	1000	<b>5ST3705-2HG</b>		1	1 unit	1AE
	<b>Three-phase</b>							
	For MCBs 3P (5SP) or fuse holders 14 x 51 mm (3NC1493, 3NW7131)	1.5	1000	<b>5ST3710-2HG</b>		1	1 unit	1AE
<b>End caps for 5ST37...-HG</b>								
	• For single-phase busbars			<b>5ST3748-0HG</b>		1	10 units	1AE
	• For two- and three-phase busbars			<b>5ST3750-0HG</b>		1	10 units	1AE
<b>Terminals according to UL 508</b>								
	<b>Infeed to device</b> 35 mm <sup>2</sup>			<b>5ST3770-0HG</b>		1	10 units	1AE
	<b>Infeed to busbar</b> 50 mm <sup>2</sup>			<b>5ST3770-1HG</b>		1	10 units	1AE
<b>Touch protection cover for busbars according to UL 508</b>								
	5 x 1 pin			<b>5ST3655-0HG</b>		1	10 units	1AE

<sup>1)</sup> 1 MW (modular width) = 18 mm.

# Miniature Circuit Breakers

## Busbars

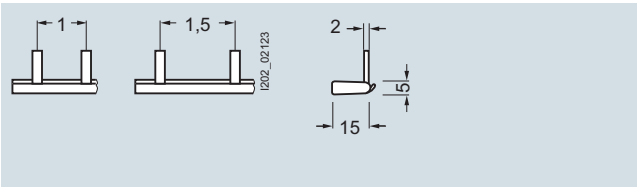
### 5ST3 busbars acc. to UL 508

#### Dimensional drawings

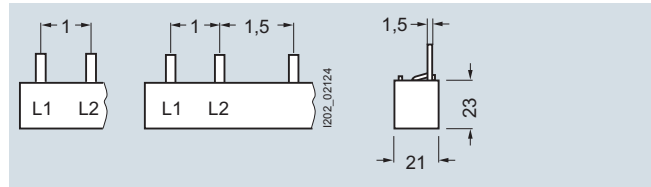
##### 5ST37 busbars

##### Pin spacing in MW (modular width; 1 MW = 18 mm)

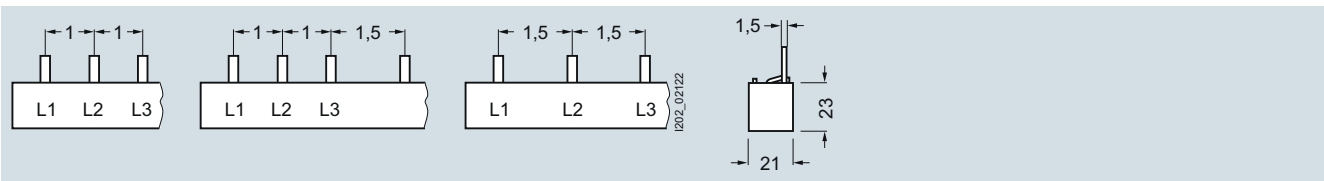
Dimensions of side view in mm (approx.)



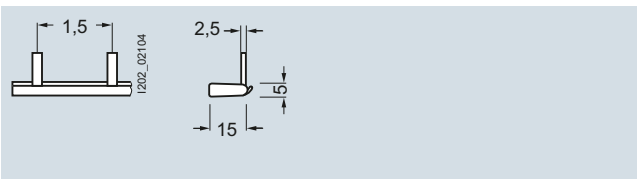
5ST3701-0HG 5ST3703-0HG



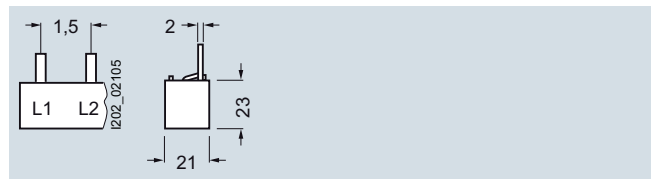
5ST3705-0HG 5ST3707-0HG



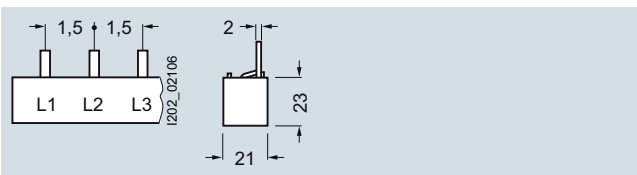
5ST3710-0HG 5ST3712-0HG 5ST3714-0HG



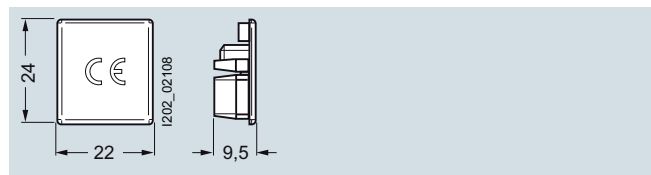
5ST3701-2HG



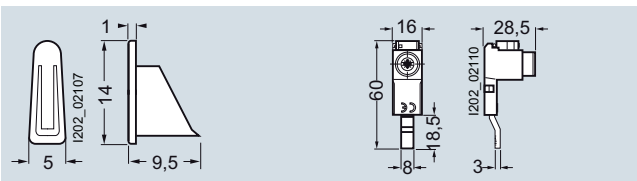
5ST3705-2HG



5ST3710-2HG

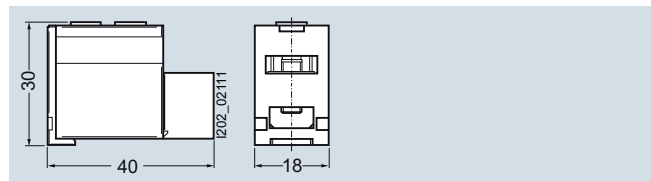


5ST3750-0HG



5ST3748-0HG

5ST3770-0HG

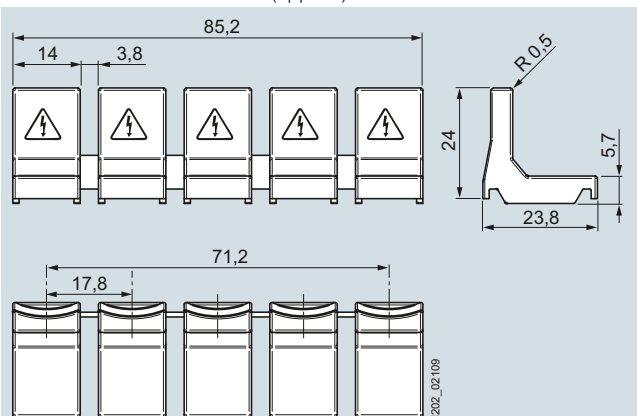


5ST3770-1HG

##### 5ST36 touch protection covers

##### Pin spacing in MW (modular width; 1 MW = 18 mm)

Dimensions of side view in mm (approx.)



5ST3655-0HG

### Overview

#### Distribution blocks for standard rail mounting

Using distribution blocks it is possible to implement single, two, three and four-phase systems with a rated current of up to 400 A. This allows supply terminals to be divided into several load circuits with different cable cross-sections.

The distribution blocks are made of thermoplastic with electrical and mechanical components, which enables their use under high thermal and mechanical load acc. to IEC 60947-7-1.

### Technical specifications

		5ST2501	5ST2502	5ST2503	
<b>Standards, certifications</b>		IEC 60947-7-1			
<b>Degree of protection</b>		IP20			
<b>Poles</b>		4			
<b>Approved cable</b>		Copper			
<b>Conductor cross-section</b>					
• Inputs per pole					
- Solid/stranded conductor acc. to IEC		mm <sup>2</sup>	1 x 2.5 ... 16	1 x 6 ... 35	1 x 10 ... 50
	Neutral conductor	mm <sup>2</sup>	1 x 1.5 ... 16	1 x 6 ... 35	--
- Finely stranded with end sleeve		mm <sup>2</sup>	1 x 1.5 ... 10	1 x 6 ... 25	1 x 10 ... 35
	Neutral conductor	mm <sup>2</sup>	--	1 x 6 ... 25	--
• Outputs per pole					
- Solid/stranded conductor acc. to IEC	Large	mm <sup>2</sup>	8 x 1.5 ... 10	2 x 4 ... 16	3 x 10 ... 35
	Small	mm <sup>2</sup>	--	5 x 1.5 ... 6	8 x 2.5 ... 16
	Neutral conductor	Large	mm <sup>2</sup>	6 x 4 ... 16	--
		Small	mm <sup>2</sup>	4 x 1.5 ... 10	--
- Finely stranded with end sleeve	Large	mm <sup>2</sup>	8 x 1.5 ... 10	2 x 4 ... 10	3 x 10 ... 25
		Small	mm <sup>2</sup>	5 x 1.5 ... 6	8 x 1.5 ... 16
	Neutral conductor	Large	mm <sup>2</sup>	6 x 4 ... 10	--
		Small	mm <sup>2</sup>	4 x 1.5 ... 6	--
<b>Tightening torque</b>					
• Inputs					
		lb-in	13.5	13.5	3.5 ... 5
		Nm	1.5	1.5	2
	Plug-in connection		PZ2	PZ2	PZ2
• Outputs					
	Large	lb-in	13.5	13.5	13.5
		Nm	1.5	1.5	1.5
	Plug-in connection		PZ1	PZ2	PZ2
	Small	lb-in	--	7.2	13.5
		Nm	--	0.8	1.5
	Plug-in connection		--	PZ1	PZ2
<b>Operational voltage</b>					
• IEC, max.					
	V	690	690	690	
<b>Ambient temperature</b>					
	°C	-25 ... +70			
<b>Overcurrent protection</b>					
• Max. rated current					
	A	80	125	160	
• Rated peak withstand current ( $I_{pk}$ )					
	kA	21.6	24	20	
• Rated short-time withstand current ( $I_{cw}$ 1 s)					
	kA	3	4.2	6.2	
<b>Block dimensions (D x H x W)</b>					
	mm	88 x 49 x 85	75 x 45 x 98	102 x 47 x 87	

# Miniature Circuit Breakers

## Busbars





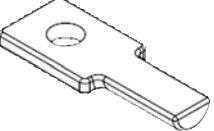
### 5ST2 distribution blocks

#### UL types

			5ST2504	5ST2505	5ST2507	5ST2508	5ST2511	
<b>Standards, certifications</b>			UL 1059 / UL 486E / IEC 60947-7-1 UL File No. E80027 / XCFR2 C22.2 No. 158 -1987 / XCFR8					
<b>Degree of protection</b>			IP20					
<b>Poles</b>			1					
<b>Approved cable</b>			Copper					
<b>Wiring type</b>			Factory and field wiring					
<b>• Front/back</b>			Pressure wire connector					
<b>Conductor cross-section</b>								
<b>• Inputs</b>								
- Solid and stranded conductor acc. to UL	Large	AWG	3 x 14 ... 4	1 x 8 ... 2	1 x 8 ... 2 / 0	1 x 2 ... 4 / 0	1 x 3 / 0 ... 350 MCM	
- Solid and stranded acc. to IEC		mm <sup>2</sup>	3 x 2.5 ... 25	10 ... 35	10 ... 70	35 ... 120	95 ... 185	
- Solid and stranded conductor acc. to UL	Small	AWG	--	1 x 14 ... 6	--	--	--	
- Solid and stranded acc. to IEC		mm <sup>2</sup>	--	2.5 ... 25	--	--	--	
- Finely stranded with end sleeve acc. to UL	Large	AWG	3 x 14 ... 6	1 x 8 ... 2	1 x 8 ... 1	1 x 2 ... 3 / 0	3 / 0 ... 300 MCM	
- Finely stranded with end sleeve acc. to IEC		mm <sup>2</sup>	3 x 2.5 ... 16	10 ... 35	10 ... 50	35 ... 95	95 ... 150	
- Finely stranded with end sleeve acc. to UL	Small	AWG	--	1 x 14 ... 6	--	--	--	
- Finely stranded with end sleeve acc. to IEC		mm <sup>2</sup>	--	2.5 ... 25	--	--	--	
<b>• Outputs</b>								
- Solid and stranded conductor acc. to UL	Top	AWG	4 x 14 ... 10	6 x 14 ... 4	6 x 14 ... 4	4 x 16 ... 8	2 x 14 ... 2	
- Solid and stranded acc. to IEC		mm <sup>2</sup>	2.5 ... 6	2.5 ... 16	2.5 ... 16	2.5 ... 10	2 x 2.5 ... 35	
- Solid and stranded conductor acc. to UL	Center	AWG	--	--	--	5 x 14 ... 6	--	
- Solid and stranded acc. to IEC		mm <sup>2</sup>	--	--	--	2.5 ... 16	5 x 2.5 ... 16	
- Solid and stranded conductor acc. to UL	Bottom	AWG	4 x 14 ... 10	--	--	2 x 14 ... 2	4 x 14 ... 8	
- Solid and stranded acc. to IEC		mm <sup>2</sup>	2.5 ... 6	--	--	2 x 2.5 ... 35	4 x 2.5 ... 10	
- Finely stranded with end sleeve acc. to UL	Top	AWG	4 x 14 ... 10	6 x 14 ... 6	6 x 14 ... 6	2 x 14 ... 4	--	
- Finely stranded with end sleeve acc. to IEC		mm <sup>2</sup>	2.5 ... 6	2.5 ... 16	2.5 ... 16	2 x 2.5 ... 25	--	
- Finely stranded with end sleeve acc. to UL	Bottom	AWG	4 x 14 ... 10	--	--	2 x 14 ... 4	5 x 14 ... 4	
- Finely stranded with end sleeve acc. to IEC		mm <sup>2</sup>	2.5 ... 6	--	--	2 x 2.5 ... 25	4 x 2.5 ... 25	
<b>Tightening torque</b>								
<b>• Inputs</b>								
		lb-in	13.2 ... 26.5	31 ... 44	44 ... 53	170 ... 186	222	
		Nm	1.5 ... 3	3.5 ... 5	5 ... 6	19 ... 21	25	
	Plug-in connection			Allen key (4 mm)	Allen key (5 mm)	Allen key (6 mm)	Allen key (8 mm)	
<b>• Outputs</b>								
	Large	lb-in	13.2 ... 26.5	17.7 ... 26.5	13.2 ... 26.5	31 ... 62	3.5 ... 7	
		Nm	1.5 ... 3	2 ... 3	1.5 ... 3	3.5 ... 7	Standard screwdriver	
	Plug-in connection		PZ2	--	--	--	Standard screwdriver	
	Small	lb-in	7 ... 13.2	--	--	18 ... 27	2 ... 3	
		Nm	0.8 ... 1.5	--	--	2 ... 3	Standard screwdriver	
	Plug-in connection		PZ1	--	--	--	Standard screwdriver	
<b>Amperes per pole, max. (UL/IEC)</b>			A	80/80	115/125	160/160	230/250	310/400
<b>Operational voltage</b>								
<b>• UL, max. (AC)</b>			V	600				
<b>• IEC, max. (AC/DC)</b>			V	1000/1500				
<b>Overcurrent protection</b>								
<b>• Required class</b>			J					
<b>• Max. rated current (UL/IEC)</b>			A	80/80	115/125	160/160	230/250	310/400
<b>• SCCR RMS Sym A</b>			kA	100				
<b>• Rated peak withstand current (<math>I_{pk}</math>)</b>			kA	2.7	30		51	
<b>• Rated short-time withstand current (<math>I_{cw}</math> 1 s)</b>			kA	1.9	4.2	11	21	
<b>Clearance</b>								
<b>• Air</b>			inches (mm)	3 / 8 (9.5)				
<b>• Creepage distance</b>			inches (mm)	1 / 2 (12.7)				
<b>Ambient temperature</b>			°C	-25 ... +70				
<b>Fire class</b>			UL 94V-0					
<b>Block dimensions (D x H x W)</b>			mm	66 x 47 x 27	74 x 47 x 27	92 x 49 x 35	96 x 49 x 45	96 x 49 x 45
<b>Connections</b>								
			With cable up to 16 mm <sup>2</sup>	With connector or cable up to 16 mm <sup>2</sup> 1)	Lateral incoming feeder for parallel connection with copper bar (max. 16 x 5 mm)	--	--	

1) Copper jumper is tested for a rated current of 100 A

### Selection and ordering data

Version	Standard	I	U	Mounting width	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
		A	V	MW	d					
<b>Distribution blocks</b>										
 5ST2504	<b>1-pole</b>	UL 1059 / UL 486E / IEC 60947-7-1	80	600	1.5		<b>5ST2504</b>		1	1 unit 1AD
		UL File No. E80027 / XCFR2	125	600	1.5		<b>5ST2505</b>		1	1 unit 1AD
		C22.2 No. 158 -1987 / XCFR8	160	600	2	▶	<b>5ST2507</b>		1	1 unit 1AD
		UL 486E / IEC 60947-7-1	250	600	2.5	▶	<b>5ST2508</b>		1	1 unit 1AD
		UL File No. E80027 / XCFR2	350	600	2.5	▶	<b>5ST2511</b>		1	1 unit 1AD
 5ST2501	<b>4-pole</b>	IEC 60947-7-1	80	500	5		<b>5ST2501</b>		1	1 unit 1AD
		IEC 60947-7-1	125	690	5.5		<b>5ST2502</b>		1	1 unit 1AD
		IEC 60947-7-1	160	500	9		<b>5ST2503</b>		1	1 unit 1AD
 5ST2503										
<b>Accessories</b>										
 5ST2506	<b>Connector for 5ST2505 distribution board</b>		--	--	--		<b>5ST2506</b>		1	10 units 1AD
	<ul style="list-style-type: none"> <li>• With touch protection</li> <li>• 20 mm<sup>2</sup></li> <li>• Single-phase</li> <li>• 32 mm</li> </ul>									
 5ST2510	<b>Terminal lug ring terminal end for distribution block</b>						<b>5ST2510</b>		1	10 units 1AD
	<b>Versions</b> <ul style="list-style-type: none"> <li>• For 5ST2508 distribution block</li> <li>• For 5ST2511 distribution block</li> </ul>						<b>5ST2512</b>		1	10 units 1AD



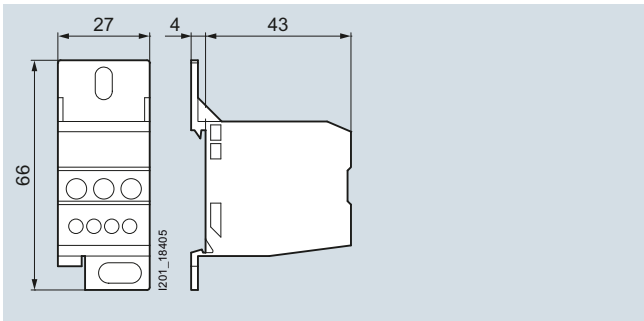
# Miniature Circuit Breakers

## Busbars

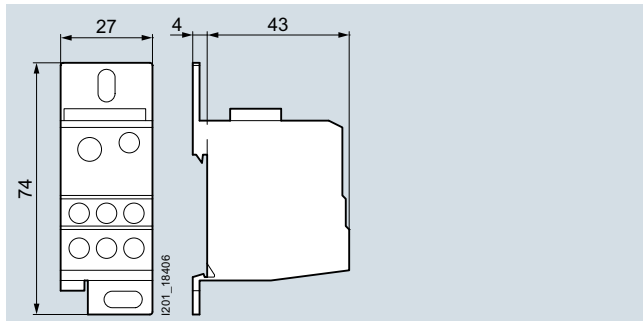
### 5ST2 distribution blocks

#### Dimensional drawings

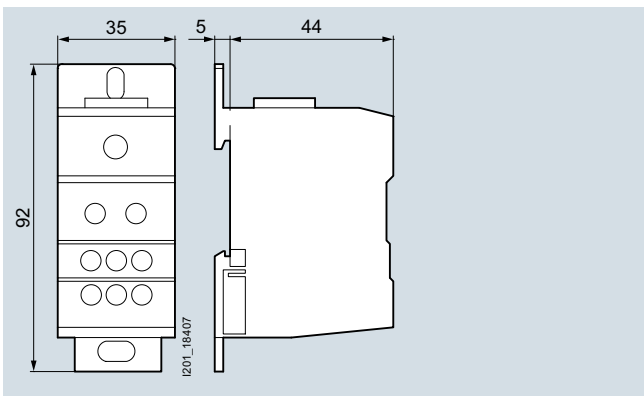
3



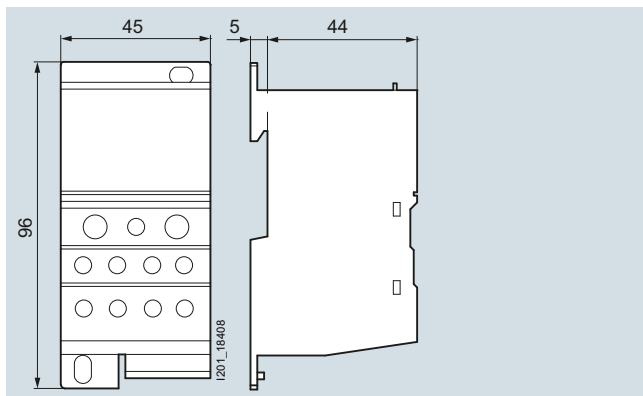
5ST2504



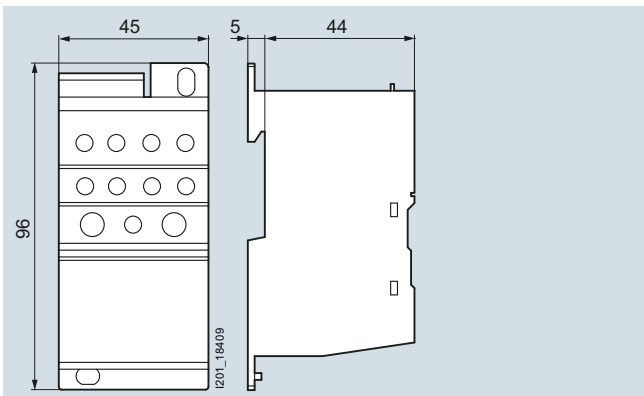
5ST2505



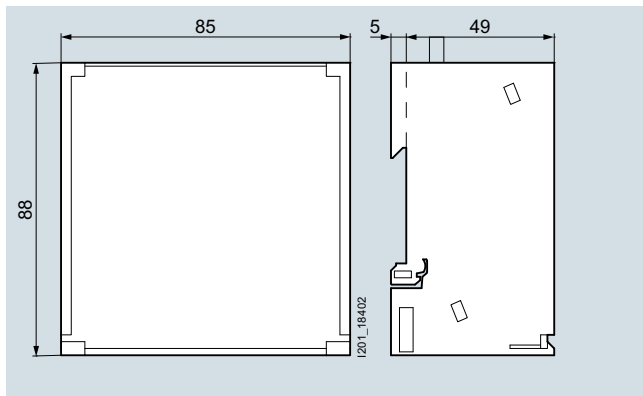
5ST2507



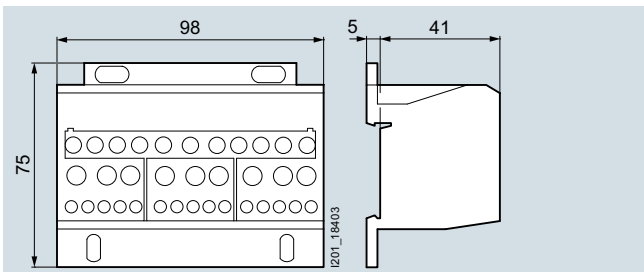
5ST2508



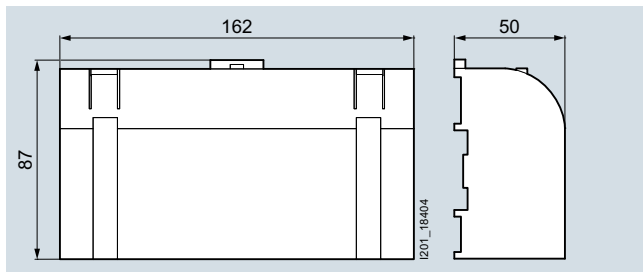
5ST2511



5ST2501



5ST2502



5ST2503

### Overview

SIKclip is a fast wiring system that simplifies the connection of control switches:

- For mounting directly on the rear vertical CU busbar system
- Mounting using brackets on the rear of the standard mounting rail.

The 4-pole busbar can handle loads of up to 250 A, each individual contact up to 63 A.


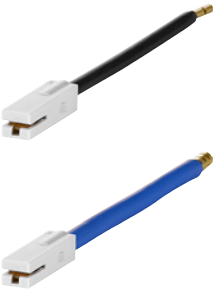


High degree of protection because each contact is locked individually.

SIKclip is made of thermoplastic acc. to IEC 60439-3 and is suitable for high thermal loads.

### Technical specifications

			5ST25..
<b>Test specifications</b>			EN 60947-1, EN 61439-1
<b>Degree of protection</b>			IP20
<b>Max. rated current <math>I_n</math></b>	A		250 at 40 °C ambient temperature
<b>Max. rated output current <math>I_n</math></b>	A		63 at 40 °C ambient temperature
<b>Rated operational voltage <math>U_n</math></b>	V AC		400
<b>Rated insulation voltage</b>	V AC		660
<b>Test voltage</b>	kV		2.5, 50 Hz
<b>Connecting cables</b>			40 A (6 mm <sup>2</sup> ), 63 A (10 mm <sup>2</sup> )
<b>Connecting cable type</b>			H07VK
<b>Ambient temperature</b>	°C		-5 ... +60

### Selection and ordering data

	Length	Conductor cross-section	Color of insulation	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	mm	mm <sup>2</sup>		d					
	<b>SIKclip busbar</b>								
	12 MW				<b>5ST2520</b>		1	1 unit	1AD
	24 MW				<b>5ST2521</b>		1	1 unit	1AD
	36 MW				<b>5ST2522</b>		1	1 unit	1AD
	<b>Connecting cables with plug</b>								
	120	6	Black		<b>5ST2523</b>		1	10 units	1AD
			Blue		<b>5ST2524</b>		1	10 units	1AD
	220	10	Black		<b>5ST2525</b>		1	10 units	1AD
			Blue		<b>5ST2526</b>		1	10 units	1AD
	220	6	Black		<b>5ST2527</b>		1	10 units	1AD
Blue				<b>5ST2528</b>		1	10 units	1AD	
220	10	Black		<b>5ST2530</b>		1	10 units	1AD	
		Blue		<b>5ST2531</b>		1	10 units	1AD	
	<b>Crimp connectors</b>								
	For connection to cables 4/6 mm <sup>2</sup>					<b>5ST2532</b>		1	20 units
	<b>Fixing brackets</b>								
	For mounting on the rear of the standard mounting rail (pair)					<b>5ST2533</b>		1	2 units

#### Note:

To install the SIKclip wiring system in the ALPHA AS, the busbars must be installed in a vertical rear position, but not recessed. If the busbars are in a recessed position the cables will not reach the circuit breakers.

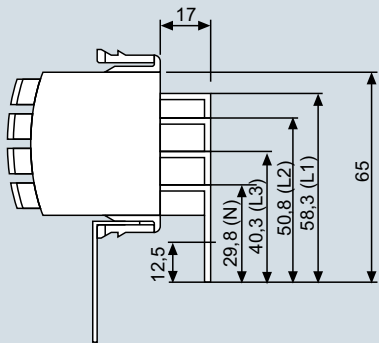
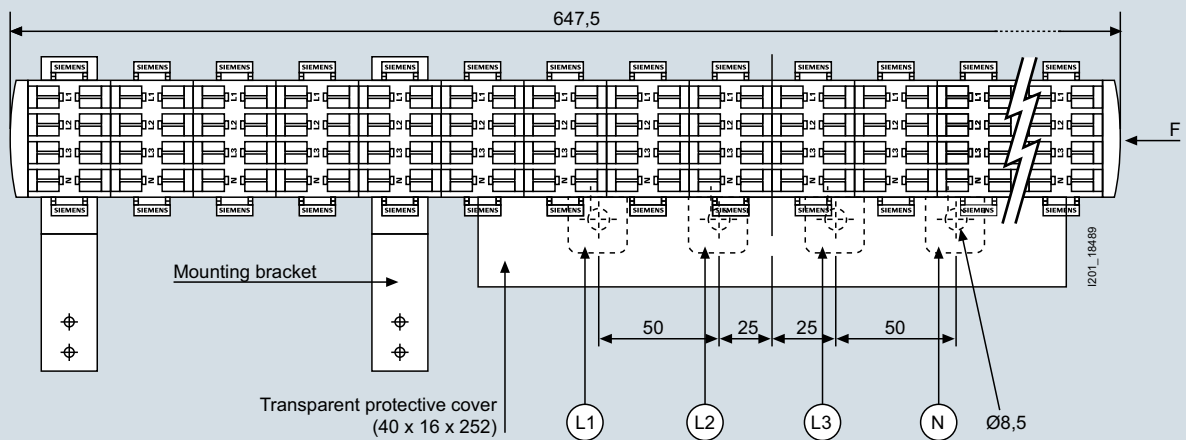
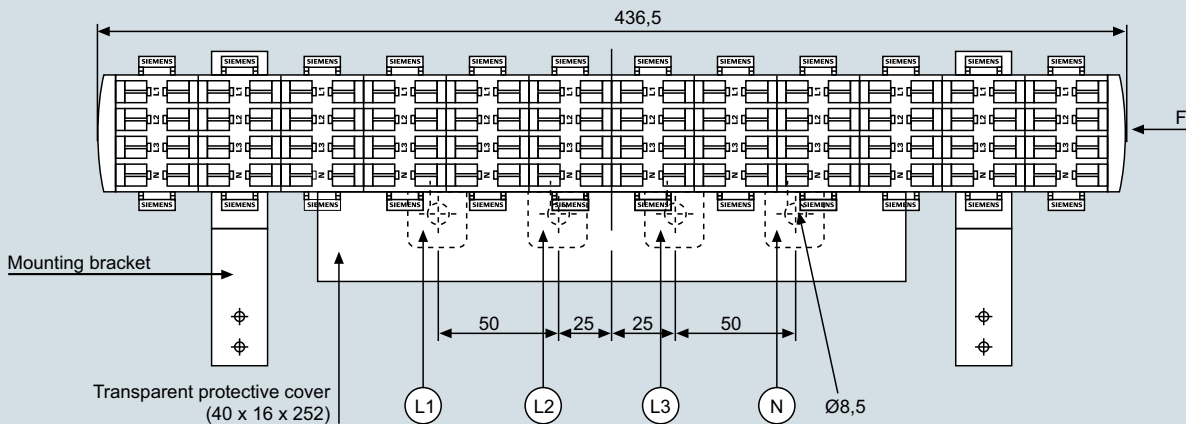
# Miniature Circuit Breakers

Busbars

SIKclip wiring system

## Dimensional drawings

3



## Overview

UL standards are used in North America as well as in several other countries. This is of particular importance to European exporters of electrical switchboard assemblies and equipment for machines who export to the USA, as their products will only be accepted if they meet the relevant UL standards.

A wide range of low-voltage circuit protection devices from Siemens comply with UL standards and are therefore suitable for implementation worldwide in both IEC/EN and UL applications within the framework of their specified use.

Miniature circuit breakers certified to UL 489 permit use as an all-round solution for protection tasks in distribution boards, control cabinets and control systems to UL 508A as "branch protectors". In particular, they are also approved for the protection of electrical circuits in heating, ventilating and cooling systems (HVAC), as well as for DC applications up to 60 V/125 V.

This covers a wide range of protection tasks, both in residential and non-residential buildings, as well as in industry. The tripping characteristics B, C and D to IEC/EN 60898-1 have been adapted so that they fall in the permissible tripping range according to UL 489, as well as for applications at 25 °C and 40 °C.

This means that the devices are approved for use according to both standards. The enclosure dimensions of the devices correspond to DIN format. This means that the device series are suitable for universal use worldwide according to IEC or UL standards.

The key difference between the three device series is their application in different power supply systems.

- 5SJ4...-HG40: 240/120 V AC, 1-pole, "same polarity only",
- 5SJ4...-HG41: 240 V AC, 1-, 2- and 3-pole,
- 5SJ4...-HG42: 480Y/277 V AC, 1-, 2- and 3-pole.

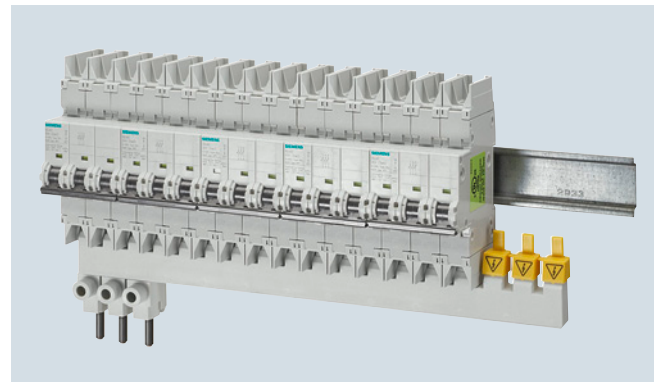
The terminals are suitable for "field wiring". This means that the devices can be installed not only in factory-built distribution boards and control cabinets, but also on-site in a customer system.

Using this mounting concept, all 5ST3...-HG additional components can be combined with miniature circuit breakers of the 5SJ4...-HG range. The auxiliary switch (AS) signals the contact position. In the event of a fault, the fault signal contact (FC) signals the automatic tripping of the miniature circuit breaker as well as the contact position. Shunt trips (ST) are used for remote tripping of miniature circuit breakers. Captive metal brackets on the additional components ensure fast mounting on the devices.

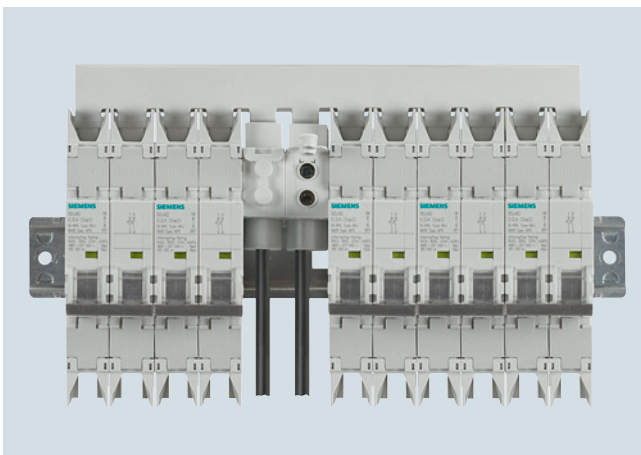
Single, two and three-phase busbars in 3 lengths with 6, 12 or 18 pins are available as accessories for all device series for "field wiring". The infeed is via connection terminals, which are available in two versions, for direct infeed at either the busbar or the miniature circuit breakers. Pins that are not required can be covered with touch protection covers.

## Benefits

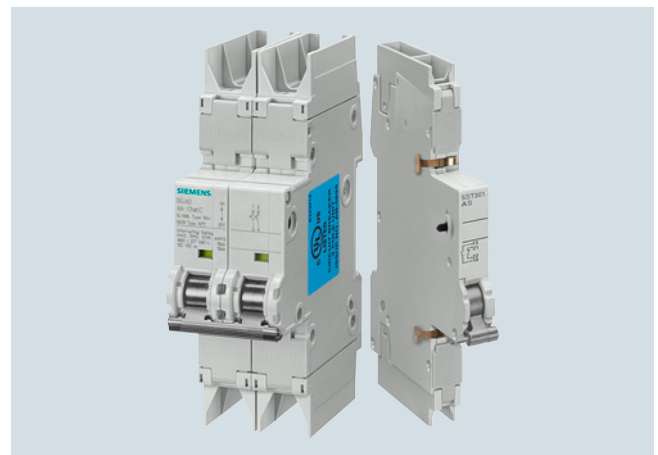
- Can be used globally for all applications in residential, non-residential and industrial buildings. This facilitates the planning of installations and enhances export opportunities
- The devices can be used according to IEC/EN 60898-1 and UL 489, which means they can be installed anywhere in the world
- Miniature circuit breakers with 480Y/277 V up to 40 A, with 240/120 V and 240 V up to 63 A
- Can be used for both AC voltage and DC voltage up to 125 V
- Rated breaking capacity up to 14 kA in acc. with UL 489 and up to 15 kA in acc. with IEC 60947-2
- Fast mounting with busbars up to 115 A and feeder terminals up to 50 mm<sup>2</sup>



- Infeed directly at miniature circuit breaker for conductor cross-sections up to 35 mm<sup>2</sup>



- Bus mounting with central infeed directly on the busbar up to conductor cross-section of 50 mm<sup>2</sup>



- Accessories: Auxiliary switches, fault signal contacts and shunt trips up to 480 V can be easily mounted onto the miniature circuit breaker

# Miniature Circuit Breakers

## 5SJ4...-HG miniature circuit breakers acc. to UL 489 and IEC, and accessories

### Technical specifications

		5SJ4...-HG40	5SJ4...-HG41	5SJ4...-HG42
<b>Standards</b>		EN 60947-2; UL 489 (UL File E243414); UL 489A (UL File E332105); CSA 22.2 No. 5-02		
<b>Approvals</b>		see chapter "Appendix"		
<b>Tripping characteristic</b>		B, C, D	C, D	
<b>Rated voltage</b>				
• Acc. to EN 60947-2	V AC	230/400	230/400	230/400
• Acc. to UL 489 and CSA C22.2 No 5-02	V AC	240/120	240	480/277
	V DC/1P	60	60	60
	V DC/2P	--	125	125
<b>Operational voltage</b>	Min.	V AC/DC per pole	24	
• Acc. to IEC 60947-2	Max.	V DC/pole	72	
	Max.	V AC	250/440	
• Acc. to UL 489	Max.	V DC/pole	60	
<b>Rated breaking capacity</b>				
• $I_{cu}$ acc. to IEC 60947-2	kA AC	10		
• Acc. to UL 489/UL 489A and CSA C22.2 No. 5-02	kA AC	14/10 <sup>1)</sup>	14/10 <sup>1)</sup>	10 <sup>1)</sup>
<b>Insulation coordination</b>				
• Rated insulation voltage	V AC	250	250/440	
• Pollution degree for overvoltage category		3/III		
<b>Rated frequency</b>	Hz	50/60		
<b>Touch protection acc. to EN 50274</b>		Yes		
<b>Handle end position, sealable</b>		Yes		
<b>Degree of protection acc. to EN 60529</b>		IP40 in the area of the handle with distribution cover		
<b>CFC and silicone-free</b>		Yes		
<b>Mounting</b>		On standard mounting rail		
<b>Terminals</b>	± screw (Pozidriv)	2		
• Combined terminals at both ends		Yes		
• Terminal tightening torque, only for Cu, 60/75 °C	Nm	3.5		
	lb-in	31		
<b>Conductor cross-sections</b>				
• Solid and stranded, acc. to UL 489 and CSA 22.2 No 5-02	AWG	18 ... 4		
• Solid and stranded, acc. to IEC 60898-1	mm <sup>2</sup>	0.75 ... 25		
• Finely stranded, with end sleeve	mm <sup>2</sup>	0.75 ... 25		
<b>Mains connection</b>		Any		
<b>Mounting position</b>		Any		
<b>Service life, on average, with rated load</b>		20000 actuations		
<b>EMC environment</b>		Suitable for environment "B" (immunity to interference not applicable)		
• Acc. to EN 60947-2				
<b>Ambient temperature</b>	°C	-25 ... +55, max. 95 % humidity		
<b>Storage temperature</b>	°C	-40 ... +75, 95 % humidity up to 55 °C		
<b>Resistance to climate acc. to IEC 60068-2-30</b>		6 cycles		
<b>Resistance to vibrations acc. to IEC 60068-2-6</b>	m/s <sup>2</sup>	50 at 25 ... 150 Hz and 60 at 35 Hz (4 s)		

<sup>1)</sup> For detailed information about rated switching capacity, see Configuration Manual "Miniature Circuit Breakers" ([www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)).

## 5SJ4...-HG miniature circuit breakers acc. to UL 489 and IEC, and accessories

Additional components	Auxiliary switches (AS)		Fault signal contacts (FC)		Shunt trips (ST)	
	5ST3010-0HG 5ST3011-0HG 5ST3012-0HG		5ST3020-0HG 5ST3021-0HG 5ST3022-0HG		5ST3030-0HG	5ST3031-0HG
<b>Standards</b>	UL 489, UL File E321559; CSA 22.2 No. 5-02 IEC/EN 62019, IEC/EN 60947-5-1				IEC/EN 60947-1	
<b>Operational voltage/operational current (load)</b>						
• Acc. to IEC/EN 62019 (acc. to IEC/EN 60947-5-1)	V AC	400	230		110 ... 415	24 ... 60
	NC: AC-13 A, NO: AC-14 A	2	6		--	--
	V DC	220	110	60	24	24 ... 60
	DC-13 A	1 (0.5)	1 (0.75)	3 (1.5)	6 (3)	--
• Acc. to UL	V AC	480	277	240	120	110 ... 480
	A AC	1.5	3	4	6	24 ... 60
	V DC	125	60			24 ... 60
	A DC	1	3			--
<b>Rated frequency</b>	Hz	50/60				
<b>Short-circuit protection</b>		Miniature circuit breaker or 6 A fuse				
<b>Minimum contact load</b>		50 mA, 24 V				
<b>Tripping operations</b>		--	--	--	Max. 2000	
<b>Service life, on average, with rated load</b>		12000 actuations				
<b>Primary operating range</b>	$x U_n$	--			0.7 ... 1.1	
<b>Conductor cross-sections</b>	AWG mm <sup>2</sup>	22 ... 14 0.5 ... 2.5		22 ... 14 0.5 ... 2.5		
<b>Terminals</b>	± screw (Pozidriv)	1		1	1	
• Terminal tightening torque	Nm lb-in	0.5 4.5			0.8 6.8	

Version	Busbars	Busbars, can be cut	Terminals			
Type	5ST3663-.HG <sup>1)</sup> 5ST3664-.HG <sup>1)</sup> 5ST3665-.HG <sup>1)</sup>	5ST3701-3HG 5ST3703-3HG 5ST3705-3HG 5ST3707-3HG 5ST3710-3HG 5ST3712-3HG 5ST3714-3HG	5ST3666-0HG <sup>1)</sup>	5ST3666-2HG <sup>1)</sup>	5ST3770-3HG	
<b>Standards</b>	UL 489; UL File No. E321559	UL 489; UL File No. E315616	UL 489; UL File No. E321559		UL 489; UL File No. E315616	
<b>Operational voltage</b>	V AC	1000/1-pole	600/2- to 3-pole			
• Acc. to IEC	V AC	1000/1-pole	600/2- to 3-pole (60 Hz)			
• Acc. to UL 489						
<b>Rated conditional short-circuit current</b>	kA	10 kA at 600 V	10 kA at 600 V with J 175 A fuse	10 kA at 600 V	10 kA at 600 V with J 175 A fuse	
• Dielectric strength	kV/mm	35				
• Surge strength	kV	> 9.5	> 10	> 9.5	> 10	
<b>Rated current</b>	A	115 at 40 °C ambient temperature	80 (infeed end) 160 (infeed center) at 35 °C ambient temperature	115 (Cu 75 °C) 95 (Cu 60 °C) at 40 °C ambient temperature	115 (Cu 75 °C) 110 (Cu 60 °C) at 40 °C ambient temperature	115 (Cu 75 °C) 95 (Cu 60 °C) at 35 °C ambient temperature
<b>Insulation coordination</b>		2				
• Pollution degree		III				
• Overvoltage category						
<b>Busbar cross-section (Cu)</b>	mm <sup>2</sup>	16	18	16	18	
<b>Infeed</b>		Any				
<b>Conductor cross-sections</b>						
• AWG cables	AWG	--		14 ... 2	14 ... 1	14 ... 2
• Solid and stranded	mm <sup>2</sup>	--		2.5 ... 35	2.5 ... 50	2.5 ... 35
<b>Terminals</b>				6 mm Allen key	± screw (Pozidriv) 2	6 mm Allen key
• Terminal tightening torque	Nm lb-in	--		5.5 50	4 35	5.5 50
<b>Temperature resistance</b>	°C	125 – UL 94-V0/0.4 mm				
<b>Interrupting rating</b>		10 kA at 600 V AC/DC				

<sup>1)</sup> Note:

The busbars and terminals are suitable for applications up to 80 A if installed in distribution boards with min. dimensions of 18 x 18 x 6.25 inches, or up to 115 A if installed in distribution boards with min. dimensions of 30 x 30 x 10 inches.

## Miniature Circuit Breakers

5SJ4. . . - .HG miniature circuit breakers acc. to UL 489 and IEC, and accessories

### Selection and ordering data



$I_n$	Mounting width	SD	Characteristic B		Price per PU	PU (UNIT, SET, M)	PS	PG
			Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/product?Article No.</a>					
A	MW <sup>1)</sup>	d						
<b>Miniature circuit breakers "same polarity only" 1P, 240 V AC</b>								
6	1		<b>5SJ4106-6HG40</b>			1	1 unit	1AE
10			<b>5SJ4110-6HG40</b>			1	1 unit	1AE
13			<b>5SJ4113-6HG40</b>			1	1 unit	1AE
15			<b>5SJ4118-6HG40</b>			1	1 unit	1AE
16			<b>5SJ4116-6HG40</b>			1	1 unit	1AE
20			<b>5SJ4120-6HG40</b>			1	1 unit	1AE
25			<b>5SJ4125-6HG40</b>			1	1 unit	1AE
30			<b>5SJ4130-6HG40</b>			1	1 unit	1AE
32			<b>5SJ4132-6HG40</b>			1	1 unit	1AE
35			<b>5SJ4135-6HG40</b>			1	1 unit	1AE
40			<b>5SJ4140-6HG40</b>			1	1 unit	1AE
45			<b>5SJ4145-6HG40</b>			1	1 unit	1AE
50			<b>5SJ4150-6HG40</b>			1	1 unit	1AE
60			<b>5SJ4160-6HG40</b>			1	1 unit	1AE
63			<b>5SJ4163-6HG40</b>			1	1 unit	1AE



<sup>1)</sup> 1 MW (modular width) = 18 mm.



## 5SJ4...HG miniature circuit breakers acc. to UL 489 and IEC, and accessories

$I_n$	Mounting width	SD	Characteristic C				Characteristic D						
			Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
A	MW <sup>1)</sup>	d											
<b>Miniature circuit breakers "same polarity only" 1P, 240 V AC</b>													
	0.3	1	5SJ4114-7HG40		1	1 unit	1AE		5SJ4114-8HG40		1	1 unit	1AE
	0.5		5SJ4105-7HG40		1	1 unit	1AE		5SJ4105-8HG40		1	1 unit	1AE
	1		5SJ4101-7HG40		1	1 unit	1AE		5SJ4101-8HG40		1	1 unit	1AE
	1.6		5SJ4115-7HG40		1	1 unit	1AE		5SJ4115-8HG40		1	1 unit	1AE
	2		5SJ4102-7HG40		1	1 unit	1AE		5SJ4102-8HG40		1	1 unit	1AE
	3		5SJ4103-7HG40		1	1 unit	1AE		5SJ4103-8HG40		1	1 unit	1AE
	4		5SJ4104-7HG40		1	1 unit	1AE		5SJ4104-8HG40		1	1 unit	1AE
	5		5SJ4111-7HG40		1	1 unit	1AE		5SJ4111-8HG40		1	1 unit	1AE
	6		5SJ4106-7HG40		1	1 unit	1AE		5SJ4106-8HG40		1	1 unit	1AE
	8		5SJ4108-7HG40		1	1 unit	1AE		5SJ4108-8HG40		1	1 unit	1AE
	10		5SJ4110-7HG40		1	1 unit	1AE		5SJ4110-8HG40		1	1 unit	1AE
	13		5SJ4113-7HG40		1	1 unit	1AE		5SJ4113-8HG40		1	1 unit	1AE
	15		5SJ4118-7HG40		1	1 unit	1AE		5SJ4118-8HG40		1	1 unit	1AE
	16		5SJ4116-7HG40		1	1 unit	1AE		5SJ4116-8HG40		1	1 unit	1AE
	20		5SJ4120-7HG40		1	1 unit	1AE		5SJ4120-8HG40		1	1 unit	1AE
	25		5SJ4125-7HG40		1	1 unit	1AE		5SJ4125-8HG40		1	1 unit	1AE
	30		5SJ4130-7HG40		1	1 unit	1AE		5SJ4130-8HG40		1	1 unit	1AE
	32		5SJ4132-7HG40		1	1 unit	1AE		5SJ4132-8HG40		1	1 unit	1AE
	35		5SJ4135-7HG40		1	1 unit	1AE		5SJ4135-8HG40		1	1 unit	1AE
	40		5SJ4140-7HG40		1	1 unit	1AE		5SJ4140-8HG40		1	1 unit	1AE
	45		5SJ4145-7HG40		1	1 unit	1AE		5SJ4145-8HG40		1	1 unit	1AE
	50		5SJ4150-7HG40		1	1 unit	1AE		5SJ4150-8HG40		1	1 unit	1AE
	60		5SJ4160-7HG40		1	1 unit	1AE		5SJ4160-8HG40		1	1 unit	1AE
	63		5SJ4163-7HG40		1	1 unit	1AE		5SJ4163-8HG40		1	1 unit	1AE
<b>Miniature circuit breakers 1P, 240 V AC</b>													
	0.3	1	5SJ4114-7HG41		1	1 unit	1AE		5SJ4114-8HG41		1	1 unit	1AE
	0.5		5SJ4105-7HG41		1	1 unit	1AE		5SJ4105-8HG41		1	1 unit	1AE
	1		5SJ4101-7HG41		1	1 unit	1AE		5SJ4101-8HG41		1	1 unit	1AE
	1.6		5SJ4115-7HG41		1	1 unit	1AE		5SJ4115-8HG41		1	1 unit	1AE
	2		5SJ4102-7HG41		1	1 unit	1AE		5SJ4102-8HG41		1	1 unit	1AE
	3		5SJ4103-7HG41		1	1 unit	1AE		5SJ4103-8HG41		1	1 unit	1AE
	4		5SJ4104-7HG41		1	1 unit	1AE		5SJ4104-8HG41		1	1 unit	1AE
	5		5SJ4111-7HG41		1	1 unit	1AE		5SJ4111-8HG41		1	1 unit	1AE
	6		5SJ4106-7HG41		1	1 unit	1AE		5SJ4106-8HG41		1	1 unit	1AE
	8		5SJ4108-7HG41		1	1 unit	1AE		5SJ4108-8HG41		1	1 unit	1AE
	10		5SJ4110-7HG41		1	1 unit	1AE		5SJ4110-8HG41		1	1 unit	1AE
	13		5SJ4113-7HG41		1	1 unit	1AE		5SJ4113-8HG41		1	1 unit	1AE
	15		5SJ4118-7HG41		1	1 unit	1AE		5SJ4118-8HG41		1	1 unit	1AE
	16		5SJ4116-7HG41		1	1 unit	1AE		5SJ4116-8HG41		1	1 unit	1AE
	20		5SJ4120-7HG41		1	1 unit	1AE		5SJ4120-8HG41		1	1 unit	1AE
	25		5SJ4125-7HG41		1	1 unit	1AE		5SJ4125-8HG41		1	1 unit	1AE
	30		5SJ4130-7HG41		1	1 unit	1AE		5SJ4130-8HG41		1	1 unit	1AE
	32		5SJ4132-7HG41		1	1 unit	1AE		5SJ4132-8HG41		1	1 unit	1AE
	35		5SJ4135-7HG41		1	1 unit	1AE		5SJ4135-8HG41		1	1 unit	1AE
	40		5SJ4140-7HG41		1	1 unit	1AE		5SJ4140-8HG41		1	1 unit	1AE
	45		5SJ4145-7HG41		1	1 unit	1AE		5SJ4145-8HG41		1	1 unit	1AE
	50		5SJ4150-7HG41		1	1 unit	1AE		5SJ4150-8HG41		1	1 unit	1AE
	60		5SJ4160-7HG41		1	1 unit	1AE		5SJ4160-8HG41		1	1 unit	1AE
	63		5SJ4163-7HG41		1	1 unit	1AE		5SJ4163-8HG41		1	1 unit	1AE

1) 1 MW (modular width) = 18 mm.


## Miniature Circuit Breakers

## 5SJ4. . . -HG miniature circuit breakers acc. to UL 489 and IEC, and accessories

$I_n$	Mounting width	SD	Characteristic C				Characteristic D						
			Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
A	MW <sup>1)</sup>	d						d					
<b>Miniature circuit breakers 2P, 240 V AC</b>													
0.3	2		5SJ4214-7HG41		1	1 unit	1AE		5SJ4214-8HG41		1	1 unit	1AE
0.5			5SJ4205-7HG41		1	1 unit	1AE		5SJ4205-8HG41		1	1 unit	1AE
1			5SJ4201-7HG41		1	1 unit	1AE		5SJ4201-8HG41		1	1 unit	1AE
1.6			5SJ4215-7HG41		1	1 unit	1AE		5SJ4215-8HG41		1	1 unit	1AE
2			5SJ4202-7HG41		1	1 unit	1AE		5SJ4202-8HG41		1	1 unit	1AE
3			5SJ4203-7HG41		1	1 unit	1AE		5SJ4203-8HG41		1	1 unit	1AE
4			5SJ4204-7HG41		1	1 unit	1AE		5SJ4204-8HG41		1	1 unit	1AE
5			5SJ4211-7HG41		1	1 unit	1AE		5SJ4211-8HG41		1	1 unit	1AE
6			5SJ4206-7HG41		1	1 unit	1AE		5SJ4206-8HG41		1	1 unit	1AE
8			5SJ4208-7HG41		1	1 unit	1AE		5SJ4208-8HG41		1	1 unit	1AE
10			5SJ4210-7HG41		1	1 unit	1AE		5SJ4210-8HG41		1	1 unit	1AE
13			5SJ4213-7HG41		1	1 unit	1AE		5SJ4213-8HG41		1	1 unit	1AE
15			5SJ4218-7HG41		1	1 unit	1AE		5SJ4218-8HG41		1	1 unit	1AE
16			5SJ4216-7HG41		1	1 unit	1AE		5SJ4216-8HG41		1	1 unit	1AE
20			5SJ4220-7HG41		1	1 unit	1AE		5SJ4220-8HG41		1	1 unit	1AE
25			5SJ4225-7HG41		1	1 unit	1AE		5SJ4225-8HG41		1	1 unit	1AE
30			5SJ4230-7HG41		1	1 unit	1AE		5SJ4230-8HG41		1	1 unit	1AE
32			5SJ4232-7HG41		1	1 unit	1AE		5SJ4232-8HG41		1	1 unit	1AE
35			5SJ4235-7HG41		1	1 unit	1AE		5SJ4235-8HG41		1	1 unit	1AE
40			5SJ4240-7HG41		1	1 unit	1AE		5SJ4240-8HG41		1	1 unit	1AE
45			5SJ4245-7HG41		1	1 unit	1AE		5SJ4245-8HG41		1	1 unit	1AE
50			5SJ4250-7HG41		1	1 unit	1AE		5SJ4250-8HG41		1	1 unit	1AE
60			5SJ4260-7HG41		1	1 unit	1AE		5SJ4260-8HG41		1	1 unit	1AE
63			5SJ4263-7HG41		1	1 unit	1AE		5SJ4263-8HG41		1	1 unit	1AE
<b>Miniature circuit breakers 3P, 240 V AC</b>													
0.3	3		5SJ4314-7HG41		1	1 unit	1AE		5SJ4314-8HG41		1	1 unit	1AE
0.5			5SJ4305-7HG41		1	1 unit	1AE		5SJ4305-8HG41		1	1 unit	1AE
1			5SJ4301-7HG41		1	1 unit	1AE		5SJ4301-8HG41		1	1 unit	1AE
1.6			5SJ4315-7HG41		1	1 unit	1AE		5SJ4315-8HG41		1	1 unit	1AE
2			5SJ4302-7HG41		1	1 unit	1AE		5SJ4302-8HG41		1	1 unit	1AE
3			5SJ4303-7HG41		1	1 unit	1AE		5SJ4303-8HG41		1	1 unit	1AE
4			5SJ4304-7HG41		1	1 unit	1AE		5SJ4304-8HG41		1	1 unit	1AE
5			5SJ4311-7HG41		1	1 unit	1AE		5SJ4311-8HG41		1	1 unit	1AE
6			5SJ4306-7HG41		1	1 unit	1AE		5SJ4306-8HG41		1	1 unit	1AE
8			5SJ4308-7HG41		1	1 unit	1AE		5SJ4308-8HG41		1	1 unit	1AE
10			5SJ4310-7HG41		1	1 unit	1AE		5SJ4310-8HG41		1	1 unit	1AE
13			5SJ4313-7HG41		1	1 unit	1AE		5SJ4313-8HG41		1	1 unit	1AE
15			5SJ4318-7HG41		1	1 unit	1AE		5SJ4318-8HG41		1	1 unit	1AE
16			5SJ4316-7HG41		1	1 unit	1AE		5SJ4316-8HG41		1	1 unit	1AE
20			5SJ4320-7HG41		1	1 unit	1AE		5SJ4320-8HG41		1	1 unit	1AE
25			5SJ4325-7HG41		1	1 unit	1AE		5SJ4325-8HG41		1	1 unit	1AE
30			5SJ4330-7HG41		1	1 unit	1AE		5SJ4330-8HG41		1	1 unit	1AE
32			5SJ4332-7HG41		1	1 unit	1AE		5SJ4332-8HG41		1	1 unit	1AE
35			5SJ4335-7HG41		1	1 unit	1AE		5SJ4335-8HG41		1	1 unit	1AE
40			5SJ4340-7HG41		1	1 unit	1AE		5SJ4340-8HG41		1	1 unit	1AE
45			5SJ4345-7HG41		1	1 unit	1AE		5SJ4345-8HG41		1	1 unit	1AE
50			5SJ4350-7HG41		1	1 unit	1AE		5SJ4350-8HG41		1	1 unit	1AE
60			5SJ4360-7HG41		1	1 unit	1AE		5SJ4360-8HG41		1	1 unit	1AE
63			5SJ4363-7HG41		1	1 unit	1AE		5SJ4363-8HG41		1	1 unit	1AE

1) 1 MW (modular width) = 18 mm.

## 5SJ4...-HG miniature circuit breakers acc. to UL 489 and IEC, and accessories

$I_n$	Mounting width	SD	Characteristic C				Characteristic D						
			Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article.No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
A	MW <sup>1)</sup>	d											
<b>Miniature circuit breakers 1P, 480Y/277 V AC</b>													
													
0.3	1		5SJ4114-7HG42		1	1 unit	1AE		5SJ4114-8HG42		1	1 unit	1AE
0.5			5SJ4105-7HG42		1	1 unit	1AE		5SJ4105-8HG42		1	1 unit	1AE
1			5SJ4101-7HG42		1	1 unit	1AE		5SJ4101-8HG42		1	1 unit	1AE
1.6			5SJ4115-7HG42		1	1 unit	1AE		5SJ4115-8HG42		1	1 unit	1AE
2			5SJ4102-7HG42		1	1 unit	1AE		5SJ4102-8HG42		1	1 unit	1AE
3			5SJ4103-7HG42		1	1 unit	1AE		5SJ4103-8HG42		1	1 unit	1AE
4			5SJ4104-7HG42		1	1 unit	1AE		5SJ4104-8HG42		1	1 unit	1AE
5			5SJ4111-7HG42		1	1 unit	1AE		5SJ4111-8HG42		1	1 unit	1AE
6			5SJ4106-7HG42		1	1 unit	1AE		5SJ4106-8HG42		1	1 unit	1AE
8			5SJ4108-7HG42		1	1 unit	1AE		5SJ4108-8HG42		1	1 unit	1AE
10			5SJ4110-7HG42		1	1 unit	1AE		5SJ4110-8HG42		1	1 unit	1AE
13			5SJ4113-7HG42		1	1 unit	1AE		5SJ4113-8HG42		1	1 unit	1AE
15			5SJ4118-7HG42		1	1 unit	1AE		5SJ4118-8HG42		1	1 unit	1AE
16			5SJ4116-7HG42		1	1 unit	1AE		5SJ4116-8HG42		1	1 unit	1AE
20			5SJ4120-7HG42		1	1 unit	1AE		5SJ4120-8HG42		1	1 unit	1AE
25			5SJ4125-7HG42		1	1 unit	1AE		5SJ4125-8HG42		1	1 unit	1AE
30			5SJ4130-7HG42		1	1 unit	1AE		5SJ4130-8HG42		1	1 unit	1AE
32			5SJ4132-7HG42		1	1 unit	1AE		5SJ4132-8HG42		1	1 unit	1AE
35			5SJ4135-7HG42		1	1 unit	1AE		--				
40			5SJ4140-7HG42		1	1 unit	1AE		--				
<b>Miniature circuit breakers 2P, 480Y/277 V AC</b>													
													
0.3	2		5SJ4214-7HG42		1	1 unit	1AE		5SJ4214-8HG42		1	1 unit	1AE
0.5			5SJ4205-7HG42		1	1 unit	1AE		5SJ4205-8HG42		1	1 unit	1AE
1			5SJ4201-7HG42		1	1 unit	1AE		5SJ4201-8HG42		1	1 unit	1AE
1.6			5SJ4215-7HG42		1	1 unit	1AE		5SJ4215-8HG42		1	1 unit	1AE
2			5SJ4202-7HG42		1	1 unit	1AE		5SJ4202-8HG42		1	1 unit	1AE
3			5SJ4203-7HG42		1	1 unit	1AE		5SJ4203-8HG42		1	1 unit	1AE
4			5SJ4204-7HG42		1	1 unit	1AE		5SJ4204-8HG42		1	1 unit	1AE
5			5SJ4211-7HG42		1	1 unit	1AE		5SJ4211-8HG42		1	1 unit	1AE
6			5SJ4206-7HG42		1	1 unit	1AE		5SJ4206-8HG42		1	1 unit	1AE
8			5SJ4208-7HG42		1	1 unit	1AE		5SJ4208-8HG42		1	1 unit	1AE
10			5SJ4210-7HG42		1	1 unit	1AE		5SJ4210-8HG42		1	1 unit	1AE
13			5SJ4213-7HG42		1	1 unit	1AE		5SJ4213-8HG42		1	1 unit	1AE
15			5SJ4218-7HG42		1	1 unit	1AE		5SJ4218-8HG42		1	1 unit	1AE
16			5SJ4216-7HG42		1	1 unit	1AE		5SJ4216-8HG42		1	1 unit	1AE
20			5SJ4220-7HG42		1	1 unit	1AE		5SJ4220-8HG42		1	1 unit	1AE
25			5SJ4225-7HG42		1	1 unit	1AE		5SJ4225-8HG42		1	1 unit	1AE
30			5SJ4230-7HG42		1	1 unit	1AE		5SJ4230-8HG42		1	1 unit	1AE
32			5SJ4232-7HG42		1	1 unit	1AE		5SJ4232-8HG42		1	1 unit	1AE
35			5SJ4235-7HG42		1	1 unit	1AE		--				
40			5SJ4240-7HG42		1	1 unit	1AE		--				

<sup>1)</sup> 1 MW (modular width) = 18 mm.

# Miniature Circuit Breakers

## 5SJ4...-HG miniature circuit breakers acc. to UL 489 and IEC, and accessories

$I_n$	Mounting width	SD	Characteristic C				Characteristic D						
			Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
A	MW <sup>1)</sup>	d											
<b>Miniature circuit breakers 3P, 480Y/277 V AC</b>													
	3												
0.3			5SJ4314-7HG42		1	1 unit	1AE		5SJ4314-8HG42		1	1 unit	1AE
0.5			5SJ4305-7HG42		1	1 unit	1AE		5SJ4305-8HG42		1	1 unit	1AE
1			5SJ4301-7HG42		1	1 unit	1AE		5SJ4301-8HG42		1	1 unit	1AE
1.6			5SJ4315-7HG42		1	1 unit	1AE		5SJ4315-8HG42		1	1 unit	1AE
2			5SJ4302-7HG42		1	1 unit	1AE		5SJ4302-8HG42		1	1 unit	1AE
3			5SJ4303-7HG42		1	1 unit	1AE		5SJ4303-8HG42		1	1 unit	1AE
4			5SJ4304-7HG42		1	1 unit	1AE		5SJ4304-8HG42		1	1 unit	1AE
5			5SJ4311-7HG42		1	1 unit	1AE		5SJ4311-8HG42		1	1 unit	1AE
6			5SJ4306-7HG42		1	1 unit	1AE		5SJ4306-8HG42		1	1 unit	1AE
8			5SJ4308-7HG42		1	1 unit	1AE		5SJ4308-8HG42		1	1 unit	1AE
10			5SJ4310-7HG42		1	1 unit	1AE		5SJ4310-8HG42		1	1 unit	1AE
13			5SJ4313-7HG42		1	1 unit	1AE		5SJ4313-8HG42		1	1 unit	1AE
15			5SJ4318-7HG42		1	1 unit	1AE		5SJ4318-8HG42		1	1 unit	1AE
16			5SJ4316-7HG42		1	1 unit	1AE		5SJ4316-8HG42		1	1 unit	1AE
20			5SJ4320-7HG42		1	1 unit	1AE		5SJ4320-8HG42		1	1 unit	1AE
25			5SJ4325-7HG42		1	1 unit	1AE		5SJ4325-8HG42		1	1 unit	1AE
30			5SJ4330-7HG42		1	1 unit	1AE		5SJ4330-8HG42		1	1 unit	1AE
32			5SJ4332-7HG42		1	1 unit	1AE		5SJ4332-8HG42		1	1 unit	1AE
35			5SJ4335-7HG42		1	1 unit	1AE		--				
40			5SJ4340-7HG42		1	1 unit	1AE		--				

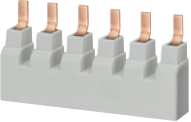
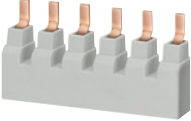






	Mounting width	SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Auxiliary switches (AS) acc. to UL 489</b>							
	0.5		5ST3010-0HG		1	1 unit	1AE
			5ST3011-0HG		1	1 unit	1AE
			5ST3012-0HG		1	1 unit	1AE
<b>Fault signal contacts (FC) acc. to UL 489</b>							
	0.5		5ST3020-0HG		1	1 unit	1AE
			5ST3021-0HG		1	1 unit	1AE
			5ST3022-0HG		1	1 unit	1AE
<b>Shunt trips (ST) acc. to UL 489</b>							
	1		5ST3030-0HG		1	1 unit	1AE
			5ST3031-0HG		1	1 unit	1AE

<sup>1)</sup> 1 MW (modular width) = 18 mm.

## 5SJ4...-HG miniature circuit breakers acc. to UL 489 and IEC, and accessories

## Accessories




	Pin spacing	Length	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW <sup>1)</sup>	mm	d					
<b>Busbars acc. to UL 489 specially for 5SJ4...-HG.. miniature circuit breakers, fixed lengths, cannot be cut<sup>2)</sup>, UL File E321559</b>								
	<b>Single-phase</b>							
	For 6 MCBs 1P	1	100	<b>5ST3663-0HG</b>		1	10 units	1AE
	For 12 MCBs 1P		205	<b>5ST3663-1HG</b>		1	10 units	1AE
	For 18 MCBs 1P		310	<b>5ST3663-2HG</b>		1	10 units	1AE
	<b>Two-phase</b>							
	For 3 MCBs 2P	1	100	<b>5ST3664-0HG</b>		1	10 units	1AE
	For 6 MCBs 2P		205	<b>5ST3664-1HG</b>		1	10 units	1AE
	For 9 MCBs 2P		310	<b>5ST3664-2HG</b>		1	10 units	1AE
	<b>Three-phase</b>							
For 2 MCBs 3P	1	100	<b>5ST3665-0HG</b>		1	10 units	1AE	
For 4 MCBs 3P		205	<b>5ST3665-1HG</b>		1	10 units	1AE	
For 6 MCBs 3P		310	<b>5ST3665-2HG</b>		1	10 units	1AE	
<b>Busbars acc. to UL 489 specially for 5SJ4...-HG.. miniature circuit breakers, can be cut, UL File E315616</b>								
	<b>Single-phase</b>							
	For MCBs 1P	1	1016	<b>5ST3701-3HG</b>		1	1 unit	1AE
	For MCBs 1P with AS or FC		1016	<b>5ST3703-3HG</b>		1	1 unit	1AE
	<b>Two-phase</b>							
	For MCBs 2P	1	1016	<b>5ST3705-3HG</b>		1	1 unit	1AE
	For MCBs 2P with AS or FC		1016	<b>5ST3707-3HG</b>		1	1 unit	1AE
	<b>Three-phase</b>							
	For MCBs 3P	1	1016	<b>5ST3710-3HG</b>		1	1 unit	1AE
	For MCBs 3P with AS or FC	1+1+1.5	1016	<b>5ST3712-3HG</b>		1	1 unit	1AE
For MCBs 3x (1P with AS or FC)		1016	<b>5ST3714-3HG</b>		1	1 unit	1AE	
<b>Note</b>								
For the UL 489 busbars that can be cut, use only the associated separate infeed, end cap and touch protection cover.								
<b>Terminals according to UL 489</b>								
	<b>Infeed at the miniature circuit breaker</b>							
	• Specially for 5SJ4...-HG.. miniature circuit breakers			<b>5ST3666-0HG</b>		1	10 units	1AE
	• Max. 35 mm <sup>2</sup>							
	<b>Infeed at the miniature circuit breaker</b>							
	• Specially for 5SJ4...-HG.. miniature circuit breakers			<b>5ST3770-3HG</b>		1	10 units	1AE
• Only for 5ST37...-3HG busbars that can be cut								
• Max. 35 mm <sup>2</sup>								
	<b>Infeed at the busbar</b>							
	Max. 50 mm <sup>2</sup>			<b>5ST3666-2HG</b>		1	10 units	1AE
<b>End cap for 5ST37...-3HG, can be cut acc. to UL 489</b>								
	<b>End cap</b>							
	For single, two, three-phase busbars			<b>5ST3750-3HG</b>		1	10 units	1AE

1) 1 MW (modular width) = 18 mm.

2) All unassigned pins of the busbar must be covered with 5ST3666-1HG touch protection covers.

## Miniature Circuit Breakers

### 5SJ4...-HG miniature circuit breakers acc. to UL 489 and IEC, and accessories

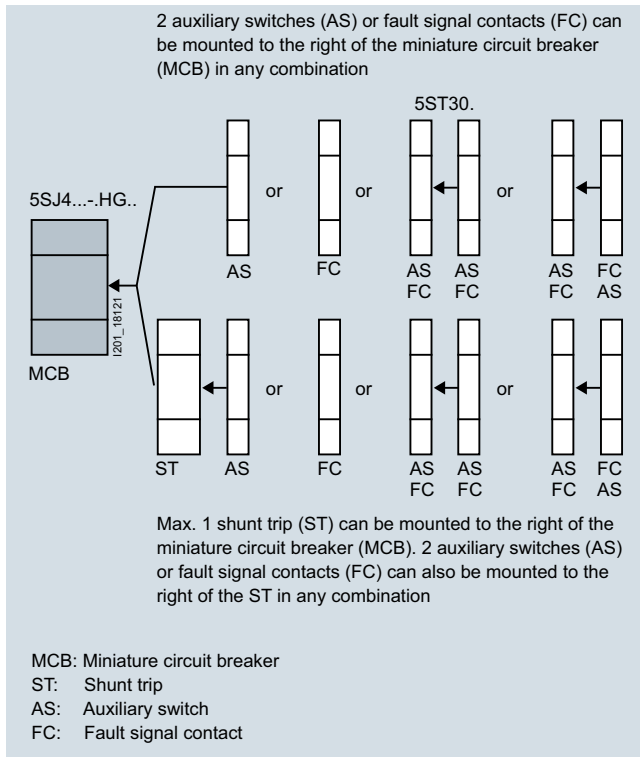
	Pin spacing	Length	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW <sup>1)</sup>	mm	d					
<b>Touch protection covers for busbars acc. to UL 489</b>								
	<b>Touch protection covers</b> 3 × 1 pin			<b>5ST3666-1HG</b>		1	10 units	1AE
	<b>Touch protection covers</b> • Only for 5ST37...-3HG busbars that can be cut • 3 × 1 pin			<b>5ST3655-3HG</b>		1	10 units	1AE
<b>Handle locking devices acc. to UL, UL File E321559</b>								
	Can be sealed against undesired manual ON/OFF switching, sealable, for padlock With max. 3 mm shackle			<b>5ST3801</b>		1	1 unit	1AD
	<b>Padlocks</b> For 5ST3801 handle locking device			<b>5ST3802</b>		1	1 unit	1AD
								

<sup>1)</sup> 1 MW (modular width) = 18 mm.

### More information

Mounting concept for mounting 5ST30..-0HG accessories on 5SJ4...-HG miniature circuit breakers

The diagram shows which additional components can be mounted on the right.



## Miniature Circuit Breakers

### SHU 5SP3 main miniature circuit breakers

#### Overview

The selective main miniature circuit breaker is used as a circuit breaker on meter panels.

Characteristic E is adapted to the special application requirements for cascade circuits between melting fuses and miniature circuit breakers in distributor circuits.

Used in conjunction with downstream miniature circuit breakers, SHU 5SP3 main miniature circuit breakers ensure effective protection and optimum availability of the plant.

#### Benefits

- Quick and easy installation on busbar and standard mounting rail
- Reliable and high selectivity
- Optimum availability of the consumer load
- The SHU 5SP3 main miniature circuit breaker operates on a voltage-independent basis
- High and safe selectivity between sub-distribution and meter panel ensures the continued supply of the unaffected circuits in the event of a fault, thus improving system availability
- In the event of a fault, the SHU 5SP3 main miniature circuit breaker prevents an existing short-circuit from being reconnected until the cause of the fault has been eliminated
- The SHU 5SP3 selective main miniature circuit breaker ensures fast and safe disconnection and reconnection of loads
- It complies with all the requirements of TAB 2007 and can therefore be used in metering systems

#### Technical specifications

		5SP37.., 5SP37..-1	5SP37..-2, 5SP37..-2KK0.	5SP38..-2
<b>Standards</b>		DIN VDE 0645	DIN VDE 0641-21	
<b>Rated voltage <math>U_n</math></b>				
• 1-pole	V AC	230/400		--
• 3 x 1-pole	V AC	400	--	400
<b>Operational voltage</b>				
Min.	V AC	110		
Max.	V AC	440		
<b>Rated frequency</b>		Hz	50 ... 60	
<b>Rated current <math>I_n</math></b>		A	16 ... 100	16 ... 63
<b>Rated insulation voltage <math>U_i</math></b>		V AC	690	
<b>Rated breaking capacity <math>I_{cn}</math></b>		A	25000	
<b>Insulation coordination</b>				
• Overvoltage category			IV	
• Pollution degree			3	
<b>Impulse withstand voltage <math>U_{imp}</math></b>		kV	6	
<b>Impact resistance</b>			30 g, at least 3 impacts, impact duration 11 ms	
<b>Resistance to vibrations</b>			2 g, 20 frequency cycles 5 ... 150 ... 15 Hz	
<b>Switching position indication</b>			OFF = green, ON = red	
<b>Main switch characteristics</b>		Acc. to EN 60204-1	Yes	
<b>Handle end position, sealable</b>			Yes	
<b>Cutoff</b>		ON/OFF	--	Locking slide with lock, additional wire seal, cable ties and Antilux
<b>Device depth</b>		mm	92	
<b>Degree of protection</b>			IP20 with connected conductors	
<b>Mains connection</b>			Any	
<b>Mounting position</b>			Any	
<b>Mounting</b>			On standard mounting rail or interface adapter	Direct tool-free mounting on the busbar system
<b>Service life, on average, with rated load</b>		Actuations	20000	
<b>Wire connections</b>			Saddle terminals at both ends	
• Top				Screwless spring terminal for flexible cables, in particular for meter connecting cables acc. to DIN 43870-3
• Bottom				Box terminal, also for infeed to the busbar system, up to 100 A infeed current
<b>Conductor cross-sections</b>				
• Top and bottom, solid and stranded	mm <sup>2</sup>	2.5 ... 70	--	
• Top and bottom, finely stranded	mm <sup>2</sup>	2.5 ... 50	--	
• Top, finely stranded	mm <sup>2</sup>	--	2.5 ... 16	
• Bottom, solid, stranded and finely stranded, with end sleeve	mm <sup>2</sup>	--	2.5 ... 50	
<b>Storage temperature</b>		°C	-40 ... +70	
<b>Ambient temperature</b>		°C	-25 ... +55	




## Selection and ordering data

$I_n$	Mounting width	SD	Article No. <a href="http://www.siemens.com/product?ArticleNo.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
A	MW <sup>1)</sup>	d					
<b>Main miniature circuit breakers, 1P, L1</b>							
For direct busbar mounting (spacing: 40 mm), no further accessories required							
16	1.5		<b>5SP3716-2KK01</b>		1	1 unit	1AE
20			<b>5SP3720-2KK01</b>		1	1 unit	1AE
25			<b>5SP3725-2KK01</b>		1	1 unit	1AE
35			<b>5SP3735-2KK01</b>		1	1 unit	1AE
40			<b>5SP3740-2KK01</b>		1	1 unit	1AE
50			<b>5SP3750-2KK01</b>		1	1 unit	1AE
63			<b>5SP3763-2KK01</b>		1	1 unit	1AE
<b>Main miniature circuit breakers, 1P, L2</b>							
For direct busbar mounting (spacing: 40 mm), no further accessories required							
16	1.5		<b>5SP3716-2KK02</b>		1	1 unit	1AE
20			<b>5SP3720-2KK02</b>		1	1 unit	1AE
25			<b>5SP3725-2KK02</b>		1	1 unit	1AE
35			<b>5SP3735-2KK02</b>		1	1 unit	1AE
40			<b>5SP3740-2KK02</b>		1	1 unit	1AE
50			<b>5SP3750-2KK02</b>		1	1 unit	1AE
63			<b>5SP3763-2KK02</b>		1	1 unit	1AE
<b>Main miniature circuit breakers, 1P, L3</b>							
For direct busbar mounting (spacing: 40 mm), no further accessories required							
16	1.5		<b>5SP3716-2KK03</b>		1	1 unit	1AE
20			<b>5SP3720-2KK03</b>		1	1 unit	1AE
25			<b>5SP3725-2KK03</b>		1	1 unit	1AE
35			<b>5SP3735-2KK03</b>		1	1 unit	1AE
40			<b>5SP3740-2KK03</b>		1	1 unit	1AE
50			<b>5SP3750-2KK03</b>		1	1 unit	1AE
63			<b>5SP3763-2KK03</b>		1	1 unit	1AE
<b>Main miniature circuit breakers, 1P each 1 x L1, L2, L3, packaged as a set</b>							
For direct busbar mounting (spacing: 40 mm), no further accessories required							
16	3 x 1.5		<b>5SP3716-2</b>		1	1 set	1AE
20			<b>5SP3720-2</b>		1	1 set	1AE
25			<b>5SP3725-2</b>		1	1 set	1AE
35			<b>5SP3735-2</b>		1	1 set	1AE
40			<b>5SP3740-2</b>		1	1 set	1AE
50			<b>5SP3750-2</b>		1	1 set	1AE
63			<b>5SP3763-2</b>		1	1 set	1AE
<b>Main miniature circuit breakers, 3 x 1P single-pole switching</b>							
For direct busbar mounting (spacing: 40 mm), no further accessories required							
16	4.5		<b>5SP3816-2</b>		1	1 unit	1AE
20			<b>5SP3820-2</b>		1	1 unit	1AE
25			<b>5SP3825-2</b>		1	1 unit	1AE
35			<b>5SP3835-2</b>		1	1 unit	1AE
40			<b>5SP3840-2</b>		1	1 unit	1AE
50			<b>5SP3850-2</b>		1	1 unit	1AE
63			<b>5SP3863-2</b>		1	1 unit	1AE

<sup>1)</sup> 1 MW (modular width) = 18 mm.







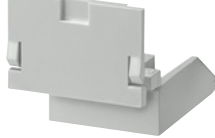
## Miniature Circuit Breakers

### SHU 5SP3 main miniature circuit breakers

$I_n$	Mounting width	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
A	MW <sup>1)</sup>	d					
<b>Acc. to DIN 0641-21 for mounting on 35 mm standard mounting rail</b>							
<b>Main miniature circuit breakers, 1P</b>							
	16	1.5	5SP3716-3		1	1 unit	1AE
	20		5SP3720-3		1	1 unit	1AE
	25		5SP3725-3		1	1 unit	1AE
	35		5SP3735-3		1	1 unit	1AE
	40		5SP3740-3		1	1 unit	1AE
	50		5SP3750-3		1	1 unit	1AE
	63		5SP3763-3		1	1 unit	1AE
<b>Main miniature circuit breakers, 3 x 1P</b>							
	16	4.5	5SP3816-3		1	1 unit	1AE
	20		5SP3820-3		1	1 unit	1AE
	25		5SP3825-3		1	1 unit	1AE
	35		5SP3835-3		1	1 unit	1AE
	40		5SP3840-3		1	1 unit	1AE
	50		5SP3850-3		1	1 unit	1AE
	63		5SP3863-3		1	1 unit	1AE
<b>Main miniature circuit breakers, 2P</b>							
	16	3	5SP3216-3		1	1 unit	1AE
	20		5SP3220-3		1	1 unit	1AE
	25		5SP3225-3		1	1 unit	1AE
	35		5SP3235-3		1	1 unit	1AE
	40		5SP3240-3		1	1 unit	1AE
	50		5SP3250-3		1	1 unit	1AE
	63		5SP3263-3		1	1 unit	1AE
<b>Main miniature circuit breakers, 3P</b>							
	16	4.5	5SP3316-3		1	1 unit	1AE
	20		5SP3320-3		1	1 unit	1AE
	25		5SP3325-3		1	1 unit	1AE
	35		5SP3335-3		1	1 unit	1AE
	40		5SP3340-3		1	1 unit	1AE
	50		5SP3350-3		1	1 unit	1AE
	63		5SP3363-3		1	1 unit	1AE
<b>Main miniature circuit breakers, 4P</b>							
	16	6	5SP3416-3		1	1 unit	1AE
	20		5SP3420-3		1	1 unit	1AE
	25		5SP3425-3		1	1 unit	1AE
	35		5SP3435-3		1	1 unit	1AE
	40		5SP3440-3		1	1 unit	1AE
	50		5SP3450-3		1	1 unit	1AE
	63		5SP3463-3		1	1 unit	1AE

<sup>1)</sup> 1 MW (modular width) = 18 mm.

## SHU 5SP3 main miniature circuit breakers

$I_n$	Mounting width	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
A	MW <sup>1)</sup>	d					
	<b>Main miniature circuit breakers, 1P</b> For mounting on standard mounting rail, busbar (spacing: 40 mm, with 5ST1 busbar adapter), or for screw fixing						
80			<b>5SP3780</b>		1	1 unit	1AE
100			<b>5SP3791</b>		1	1 unit	1AE
	<b>Main miniature circuit breakers, 3 x 1P</b> Premounted on 5ST1324 busbar adapter; can be clipped onto busbars (spacing: 40 mm); including three 5ST1323 transparent operating protective covers						
80	6		<b>5SP3780-1</b>		1	1 set	1AE
100			<b>5SP3791-1</b>		1	1 set	1AE
	<b>Mounting plates</b> For mounting on standard mounting rails according to EN 50022 For 1 or 2 standard mounting rails, universal application, tier spacing 125 mm		▶ <b>5ST1322</b>		1	10 units	1AE
	<b>Busbar adapters for 5SP37.. and 5SP37..-1</b> Suitable for busbar spacing 40 mm can be equipped with 3 selective main miniature circuit breakers		<b>5ST1328</b>		1	1 unit	1AE
	<b>Breaker blocking covers for 5SP37.. and 5SP37..-1</b> To prevent manual switching OFF		<b>5ST1318</b>		1	10 units	1AE
	<b>Operating protective covers, transparent, for 5SP37.. and 5SP37..-1</b> Multiple locking options against accidental and intentional operation • Padlocks • Phillips screwdrivers • Special wrenches (Antilux) • These can be installed by the operator or the power utility		<b>5ST1323</b>		1	3 units	1AE
	<b>Terminal covers for 5SP37.. and 5SP37..-1</b> 2 units required per device Terminal covers in compliance with cladding dimensions acc. to DIN 43880		<b>5ST1316</b>		1	6 units	1AE

1) 1 MW (modular width) = 18 mm.

## Miniature Circuit Breakers

### Notes

3

## 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

- for installation, the "Standard Terms and Conditions for Installation –Germany" and
- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services – for Customers in Germany"<sup>1)</sup> and
- for standalone software products and software products that are part of another product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or Registered Office in Germany"<sup>1)</sup> and
- for other supplies and services, the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"<sup>1)</sup>.  
In the event that such other supplies and services include open-source software, the conditions of which override the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"<sup>1)</sup>, the product will be supplied with a notice detailing the special conditions that apply for the relevant open-source software. This applies accordingly in the case of a reference to other third-party software components.

### 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

- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services"<sup>1)</sup> (only available in English) and
- for services, the "International Terms & Conditions for Services"<sup>1)</sup> supplemented by the "Software Licensing Conditions"<sup>1)</sup> and
- for the supply of other hardware and software the "International Terms & Conditions for Products"<sup>1)</sup> supplemented by the "Software Licensing Conditions"<sup>1)</sup>.

### 1.3 For customers with framework agreements

To the extent that our products and services are covered by an existing framework agreement, the conditions there apply instead of this CSD.

## 2. Prices

The prices are in € (euros) ex works, excluding packaging.

The sales tax (value added tax) is not included in the prices. It shall be debited separately at the respective rate according to the applicable legal regulations.

Prices are subject to change without prior notice. We will debit the prices valid at the time of delivery.

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

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

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

The surcharge will be calculated (except in the case of dysprosium and neodymium) on the basis of the official price on the day prior to receipt of the order or prior to the release order for calculation of the surcharge.

In the event of placement of an order, the relevant three-month average price from the quarter prior to order receipt or the release order shall be used with a one-month buffer to calculate the dysprosium and neodymium surcharge ("rare earths") (you will find details in the aforementioned explanation of the metal factor).

## 3. Additional terms and conditions

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

Illustrations are not binding.

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

<sup>1)</sup> You can download the text of the Siemens AG terms and conditions of trade at [www.siemens.com/automation/salesmaterial-as/catalog/en/terms\\_of\\_trade\\_en.pdf](http://www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf)

## Appendix

### Conditions of sale and delivery

#### 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.

Exporting may be subject to authorization. In delivery information, we label authorization obligations according to German, European and US export lists.

Our products are controlled by the U.S. authorities (goods labeled with "ECCN" not equal to "N") and may only be supplied to the stated country of the end user for sole use by the end user. Without U.S. government approval or other approval under U.S. law, the products may not be sold, transferred or otherwise forwarded to other countries or to other persons other than the specified end user, either in their original form or after further processing into other goods. Goods labeled with an "AL" not equal to "N" are subject European/national export authorization requirements.

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.

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