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# Low-Voltage Power Distribution and Electrical Installation Technology

Miniature Circuit Breakers

Catalog  
Extract  
LV 10

Edition  
10/2018

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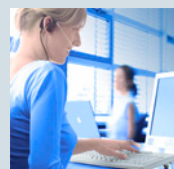


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# Low-Voltage Power Distribution and Electrical Installation Technology

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

SENTRON · SIVACON · ALPHA



### Catalog LV 10 · 10/2018

Supersedes:  
Catalog LV 10 · 04/2018

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The products in this catalog can also be found in the  
Interactive Catalog CA 01.  
Article No.: E86060-D4001-A510-D8-7500

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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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### 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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3/80	<b>SHU 5SP3 main miniature circuit breakers</b>

**For further technical product information:**

[Configuration Manual](#)

[Miniature Circuit Breakers](#)

Article No.: 3ZW1012-5SL61-0CB1

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# 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>	3/29	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>5SY miniature circuit breakers, 1+N in 1 MW</b></p>	3/32	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>Additional components</b></p>	3/36	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>	3/49	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>5SJ4 ...- .HG miniature circuit breakers acc. to UL 489 and IEC, and accessories</b></p>	3/69	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>	3/80	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.

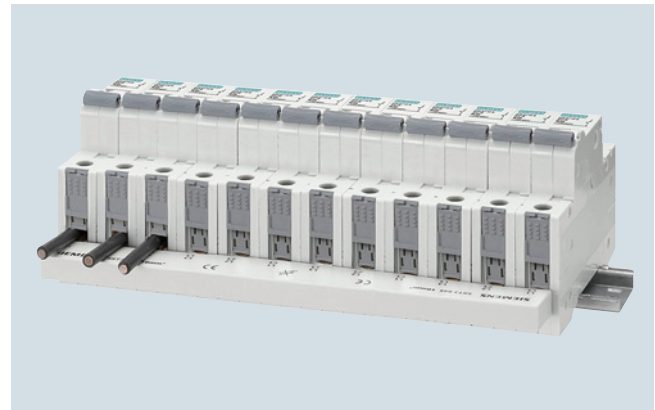
The 5SL4 miniature circuit breakers can also be combined with shunt trips, undervoltage releases and arc fault detection devices.

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, sealable</b>		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 ( $\geq 16 \text{ mm}^2$ )	$\text{mm}^2$	0.75 ... 35	
- Finely stranded with non-insulated end sleeve	$\text{mm}^2$	0.75 ... 25	
- Finely stranded with insulated end sleeve	$\text{mm}^2$	0.75 ... 25	
- Finely stranded without end sleeve	$\text{mm}^2$	1 ... 35	
• 2-wire, same cross-section			
- Solid ( $\leq 10 \text{ mm}^2$ ) / stranded ( $\geq 16 \text{ mm}^2$ )	$\text{mm}^2$	0.75 ... 10	
- Finely stranded with non-insulated end sleeve	$\text{mm}^2$	0.75 ... 4	
- Finely stranded with insulated end sleeve	$\text{mm}^2$	0.75 ... 4	
- Finely stranded without end sleeve	$\text{mm}^2$	1 ... 4	
• 1-wire + busbar (pin thickness 1.5 mm)			
- Solid ( $\leq 10 \text{ mm}^2$ ) / stranded ( $\geq 16 \text{ mm}^2$ )	$\text{mm}^2$	10 ... 25	
- Finely stranded with non-insulated end sleeve	$\text{mm}^2$	6 ... 25	
- Finely stranded with insulated end sleeve	$\text{mm}^2$	6 ... 16	
<b>Terminals</b>	± screw (Pozidriv)	2	
• Terminal tightening torque	Nm	2.5 ... 3	
<b>Mounting position</b>		Any	
<b>Service life, on average, with rated load</b>		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.



### Overview

The 5SL miniature circuit breakers are particularly suitable for the demands of 4.5 kA and 6 kA applications in infrastructure, such as residential buildings and small commercial buildings.

### Selection and ordering data





4500 3		$I_n$	Mounting width MW <sup>1)</sup>	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
		A		d										
<b>Miniature circuit breakers 4500 A</b>														
	<b>1P, 230/400 V AC</b>													
	0,3	1	--											
	0,5		--											
	1		--											
	1,6		--											
	2		--											
	3		--											
	4		--											
	6		<b>5SL3106-6</b>			1	1 unit	1AE						
	8		--											
	10		<b>5SL3110-6</b>			1	1 unit	1AE						
	13		<b>5SL3113-6</b>				1 unit	1AE						
	16		<b>5SL3116-6</b>			1	1 unit	1AE						
	20		<b>5SL3120-6</b>			1	1 unit	1AE						
25		<b>5SL3125-6</b>			1	1 unit	1AE							
32		<b>5SL3132-6</b>			1	1 unit	1AE							
40		<b>5SL3140-6</b>			1	1 unit	1AE							
50		<b>5SL3150-6</b>			1	1 unit	1AE							
63		<b>5SL3163-6</b>			1	1 unit	1AE							
	<b>1P+N, 230 V AC</b>													
	0,3	2	--											
	0,5		--											
	1		--											
	1,6		--											
	2		--											
	3		--											
	4		--											
	6		<b>5SL3506-6</b>			1	1 unit	1AE						
	8		--											
	10		<b>5SL3510-6</b>			1	1 unit	1AE						
	13		<b>5SL3513-6</b>				1 unit	1AE						
	16		<b>5SL3516-6</b>			1	1 unit	1AE						
	20		<b>5SL3520-6</b>			1	1 unit	1AE						
25		<b>5SL3525-6</b>			1	1 unit	1AE							
32		<b>5SL3532-6</b>			1	1 unit	1AE							
40		<b>5SL3540-6</b>			1	1 unit	1AE							
50		<b>5SL3550-6</b>			1	1 unit	1AE							
63		<b>5SL3563-6</b>			1	1 unit	1AE							
	<b>2P, 400 V AC</b>													
	0,3	2	--											
	0,5		--											
	1		--											
	1,6		--											
	2		--											
	3		--											
	4		--											
	6		<b>5SL3206-6</b>			1	1 unit	1AE						
	8		--											
	10		<b>5SL3210-6</b>			1	1 unit	1AE						
	13		<b>5SL3213-6</b>				1 unit	1AE						
	16		<b>5SL3216-6</b>			1	1 unit	1AE						
	20		<b>5SL3220-6</b>			1	1 unit	1AE						
25		<b>5SL3225-6</b>			1	1 unit	1AE							
32		<b>5SL3232-6</b>			1	1 unit	1AE							
40		<b>5SL3240-6</b>			1	1 unit	1AE							
50		<b>5SL3250-6</b>			1	1 unit	1AE							
63		<b>5SL3263-6</b>			1	1 unit	1AE							

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

# Miniature Circuit Breakers




## 5SL Miniature Circuit Breakers

### 5SL3, 4500 A

4500		$I_n$	Mounting width	SD	Characteristic B				Characteristic C				
3					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)
A		MW <sup>1)</sup>	d						d				
<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	PG		
					A	d						d					
<b>Miniature circuit breakers 6000 A</b>																	
	<b>1P, 230/400 V AC</b>																
	0.3	1	--														
	0.5	--															
	1	--															
	1.6	--															
	2	<b>NEW</b>	<b>5SL6102-6</b>				1	1 unit	1AB								
	3	--															
	4	<b>NEW</b>	<b>5SL6104-6</b>				1	1 unit	1AB								
	6		<b>5SL6106-6</b>				1	1 unit	1AB								
	8	--															
	10		<b>5SL6110-6</b>				1	1 unit	1AB								
	13		<b>5SL6113-6</b>				1	1 unit	1AB								
	16		<b>5SL6116-6</b>				1	1 unit	1AB								
	20		<b>5SL6120-6</b>				1	1 unit	1AB								
	25		<b>5SL6125-6</b>				1	1 unit	1AB								
32		<b>5SL6132-6</b>				1	1 unit	1AB									
40		<b>5SL6140-6</b>				1	1 unit	1AB									
50		<b>5SL6150-6</b>				1	1 unit	1AB									
63		<b>5SL6163-6</b>				1	1 unit	1AB									
	<b>1P+N, 230 V AC</b>																
	0.3	2	--														
	0.5	--															
	1	--															
	1.6	--															
	2	--															
	3	--															
	4	--															
	6		<b>5SL6506-6</b>				1	1 unit	1AB								
	8	--															
	10		<b>5SL6510-6</b>				1	1 unit	1AB								
	13		<b>5SL6513-6</b>				1	1 unit	1AB								
	16		<b>5SL6516-6</b>				1	1 unit	1AB								
	20		<b>5SL6520-6</b>				1	1 unit	1AB								
	25		<b>5SL6525-6</b>				1	1 unit	1AB								
32		<b>5SL6532-6</b>				1	1 unit	1AB									
40		<b>5SL6540-6</b>				1	1 unit	1AB									
50		<b>5SL6550-6</b>				1	1 unit	1AB									
63		<b>5SL6563-6</b>				1	1 unit	1AB									
	<b>2P, 400 V AC</b>																
	0.3	2	--														
	0.5	--															
	1	--															
	1.6	--															
	2	--															
	3	--															
	4	--															
	6		<b>5SL6206-6</b>				1	1 unit	1AB								
	8	--															
	10		<b>5SL6210-6</b>				1	1 unit	1AB								
	13		<b>5SL6213-6</b>				1	1 unit	1AB								
	16		<b>5SL6216-6</b>				1	1 unit	1AB								
	20		<b>5SL6220-6</b>				1	1 unit	1AB								
	25		<b>5SL6225-6</b>				1	1 unit	1AB								
32		<b>5SL6232-6</b>				1	1 unit	1AB									
40		<b>5SL6240-6</b>				1	1 unit	1AB									
50		<b>5SL6250-6</b>				1	1 unit	1AB									
63		<b>5SL6263-6</b>				1	1 unit	1AB									

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





### Selection and ordering data

10000 3	VDE	$I_n$	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	PG
		A		d						d					
<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	






<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

 	$I_n$	Mounting width MW <sup>1)</sup>	SD d	<b>Characteristic D</b> 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.

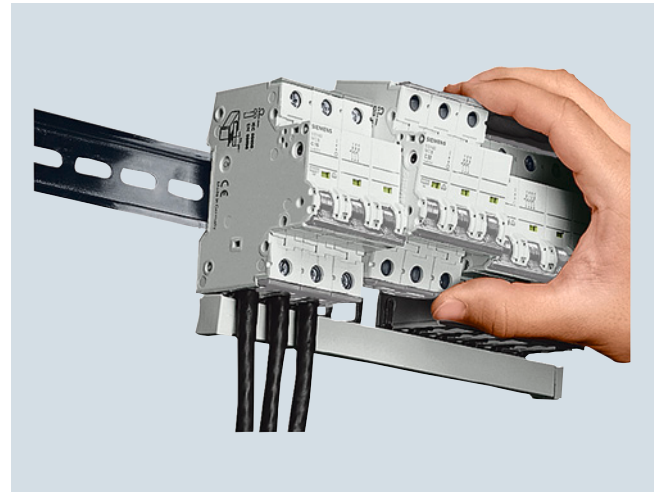
The devices are approved for worldwide use according to IEC standards for power supply systems up to 250/440 V AC. 72 V DC per pole is permitted in DC systems.

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"](#).

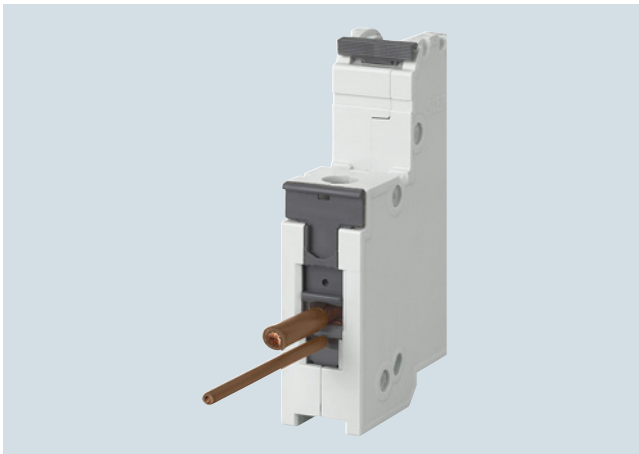
### Benefits



- 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											
<b>Miniature circuit breakers 6000 A</b>																
	<b>1P, 230/400 V AC</b>															
		0.3	1	--								<b>5SY6114-7</b>		1	1 unit	1AC
		0.5		--								<b>5SY6105-7</b>		1	1 unit	1AC
		1		--								<b>5SY6101-7</b>		1	1 unit	1AC
		1.6		--								<b>5SY6115-7</b>		1	1 unit	1AC
		2		<b>5SY6102-6</b>				1	1 unit	1AB	▶	<b>5SY6102-7</b>		1	1 unit	1AC
		3		--								<b>5SY6103-7</b>		1	1 unit	1AC
		4		<b>5SY6104-6</b>				1	1 unit	1AB	▶	<b>5SY6104-7</b>		1	1 unit	1AC
		5		--								<b>5SY6111-7</b>		1	1 unit	1AC
		6		▶ <b>5SY6106-6</b>				1	1 unit	1AB	▶	<b>5SY6106-7</b>		1	1 unit	1AC
		8		--								<b>5SY6108-7</b>		1	1 unit	1AC
		10		▶ <b>5SY6110-6</b>				1	1 unit	1AB	▶	<b>5SY6110-7</b>		1	1 unit	1AC
		13		<b>5SY6113-6</b>				1	1 unit	1AB		<b>5SY6113-7</b>		1	1 unit	1AC
		15		--								<b>5SY6118-7</b>		1	1 unit	1AC
		16		▶ <b>5SY6116-6</b>				1	1 unit	1AB	▶	<b>5SY6116-7</b>		1	1 unit	1AC
	20		<b>5SY6120-6</b>				1	1 unit	1AB		<b>5SY6120-7</b>		1	1 unit	1AC	
	25		<b>5SY6125-6</b>				1	1 unit	1AB		<b>5SY6125-7</b>		1	1 unit	1AC	
	30		--								<b>5SY6130-7</b>		1	1 unit	1AC	
	32		<b>5SY6132-6</b>				1	1 unit	1AB		<b>5SY6132-7</b>		1	1 unit	1AC	
	40		<b>5SY6140-6</b>				1	1 unit	1AB		<b>5SY6140-7</b>		1	1 unit	1AC	
	50		<b>5SY6150-6</b>				1	1 unit	1AB		<b>5SY6150-7</b>		1	1 unit	1AC	
	63		<b>5SY6163-6</b>				1	1 unit	1AB		<b>5SY6163-7</b>		1	1 unit	1AC	
	<b>1P+N, 230 V AC</b>															
		0.3	2	--								<b>5SY6514-7</b>		1	1 unit	1AC
		0.5		--								<b>5SY6505-7</b>		1	1 unit	1AC
		1		--								<b>5SY6501-7</b>		1	1 unit	1AC
		1.6		--								<b>5SY6515-7</b>		1	1 unit	1AC
		2		--								<b>5SY6502-7</b>		1	1 unit	1AC
		3		--								<b>5SY6503-7</b>		1	1 unit	1AC
		4		--								<b>5SY6504-7</b>		1	1 unit	1AC
		6		<b>5SY6506-6</b>				1	1 unit	1AB		<b>5SY6506-7</b>		1	1 unit	1AC
		8		--								<b>5SY6508-7</b>		1	1 unit	1AC
		10		<b>5SY6510-6</b>				1	1 unit	1AB		<b>5SY6510-7</b>		1	1 unit	1AC
		13		<b>5SY6513-6</b>				1	1 unit	1AB		<b>5SY6513-7</b>		1	1 unit	1AC
		16		<b>5SY6516-6</b>				1	1 unit	1AB		<b>5SY6516-7</b>		1	1 unit	1AC
		20		<b>5SY6520-6</b>				1	1 unit	1AB		<b>5SY6520-7</b>		1	1 unit	1AC
		25		<b>5SY6525-6</b>				1	1 unit	1AB		<b>5SY6525-7</b>		1	1 unit	1AC
	32		<b>5SY6532-6</b>				1	1 unit	1AB		<b>5SY6532-7</b>		1	1 unit	1AC	
	40		<b>5SY6540-6</b>				1	1 unit	1AB		<b>5SY6540-7</b>		1	1 unit	1AC	
	50		<b>5SY6550-6</b>				1	1 unit	1AB		<b>5SY6550-7</b>		1	1 unit	1AC	
	63		<b>5SY6563-6</b>				1	1 unit	1AB		<b>5SY6563-7</b>		1	1 unit	1AC	
	<b>2P, 400 V AC</b>															
		0.3	2	--								<b>5SY6214-7</b>		1	1 unit	1AC
		0.5		--								<b>5SY6205-7</b>		1	1 unit	1AC
		1		--								<b>5SY6201-7</b>		1	1 unit	1AC
		1.6		--								<b>5SY6215-7</b>		1	1 unit	1AC
		2		--								<b>5SY6202-7</b>		1	1 unit	1AC
		3		--								<b>5SY6203-7</b>		1	1 unit	1AC
		4		--								<b>5SY6204-7</b>		1	1 unit	1AC
		5		--								<b>5SY6211-7</b>		1	1 unit	1AC
		6		<b>5SY6206-6</b>				1	1 unit	1AB	▶	<b>5SY6206-7</b>		1	1 unit	1AC
		8		--								<b>5SY6208-7</b>		1	1 unit	1AC
		10		<b>5SY6210-6</b>				1	1 unit	1AB	▶	<b>5SY6210-7</b>		1	1 unit	1AC
		13		<b>5SY6213-6</b>				1	1 unit	1AB		<b>5SY6213-7</b>		1	1 unit	1AC
		15		--								<b>5SY6218-7</b>		1	1 unit	1AC
		16		<b>5SY6216-6</b>				1	1 unit	1AB	▶	<b>5SY6216-7</b>		1	1 unit	1AC
	20		<b>5SY6220-6</b>				1	1 unit	1AB		<b>5SY6220-7</b>		1	1 unit	1AC	
	25		<b>5SY6225-6</b>				1	1 unit	1AB		<b>5SY6225-7</b>		1	1 unit	1AC	
	30		--								<b>5SY6230-7</b>		1	1 unit	1AC	
	32		<b>5SY6232-6</b>				1	1 unit	1AB		<b>5SY6232-7</b>		1	1 unit	1AC	
	40		<b>5SY6240-6</b>				1	1 unit	1AB		<b>5SY6240-7</b>		1	1 unit	1AC	
	50		<b>5SY6250-6</b>				1	1 unit	1AB		<b>5SY6250-7</b>		1	1 unit	1AC	
	63		<b>5SY6263-6</b>				1	1 unit	1AB		<b>5SY6263-7</b>		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		3		D E		$I_n$	Mounting width A	SD	Characteristic B				Characteristic C				
3		D E		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
							MW <sup>1)</sup>	d									
<b>Miniature circuit breakers 6000 A</b>																	
<b>3P, 400 V AC</b>																	
	0.3	3	--														
	0.5	--															
	1	--															
	1.6	--															
	2	--															
	3	--															
	4	--															
	5	--															
	6			<b>5SY6306-6</b>			1	1 unit	1AB	▶					1	1 unit	1AC
	8	--															
	10			<b>5SY6310-6</b>			1	1 unit	1AB	▶					1	1 unit	1AC
	13			<b>5SY6313-6</b>			1	1 unit	1AB						1	1 unit	1AC
	15			--											1	1 unit	1AC
	16		▶	<b>5SY6316-6</b>			1	1 unit	1AB	▶					1	1 unit	1AC
20			<b>5SY6320-6</b>			1	1 unit	1AB						1	1 unit	1AC	
25			<b>5SY6325-6</b>			1	1 unit	1AB						1	1 unit	1AC	
30			--											1	1 unit	1AC	
32			<b>5SY6332-6</b>			1	1 unit	1AB	▶					1	1 unit	1AC	
40			<b>5SY6340-6</b>			1	1 unit	1AB						1	1 unit	1AC	
50			<b>5SY6350-6</b>			1	1 unit	1AB						1	1 unit	1AC	
63			<b>5SY6363-6</b>			1	1 unit	1AB						1	1 unit	1AC	
<b>3P+N, 400 V AC</b>																	
	0.3	4	--														
	0.5	--															
	1	--															
	1.6	--															
	2	--															
	3	--															
	4	--															
	6			<b>5SY6606-6</b>			1	1 unit	1AB						1	1 unit	1AC
	8	--															
	10			<b>5SY6610-6</b>			1	1 unit	1AB						1	1 unit	1AC
	13			<b>5SY6613-6</b>			1	1 unit	1AB						1	1 unit	1AC
	16			<b>5SY6616-6</b>			1	1 unit	1AB						1	1 unit	1AC
	20			<b>5SY6620-6</b>			1	1 unit	1AB						1	1 unit	1AC
	25			<b>5SY6625-6</b>			1	1 unit	1AB						1	1 unit	1AC
32			<b>5SY6632-6</b>			1	1 unit	1AB						1	1 unit	1AC	
40			<b>5SY6640-6</b>			1	1 unit	1AB						1	1 unit	1AC	
50			<b>5SY6650-6</b>			1	1 unit	1AB						1	1 unit	1AC	
63			<b>5SY6663-6</b>			1	1 unit	1AB						1	1 unit	1AC	
<b>4P, 400 V AC</b>																	
	0.3	4	--														
	0.5	--															
	1	--															
	1.6	--															
	2	--															
	3	--															
	4	--															
	6			<b>5SY6406-6</b>			1	1 unit	1AB						1	1 unit	1AC
	8	--															
	10			<b>5SY6410-6</b>			1	1 unit	1AB						1	1 unit	1AC
	13			<b>5SY6413-6</b>			1	1 unit	1AB						1	1 unit	1AC
	16			<b>5SY6416-6</b>			1	1 unit	1AB						1	1 unit	1AC
	20			<b>5SY6420-6</b>			1	1 unit	1AB						1	1 unit	1AC
	25			<b>5SY6425-6</b>			1	1 unit	1AB						1	1 unit	1AC
32			<b>5SY6432-6</b>			1	1 unit	1AB						1	1 unit	1AC	
40			<b>5SY6440-6</b>			1	1 unit	1AB						1	1 unit	1AC	
50			<b>5SY6450-6</b>			1	1 unit	1AB						1	1 unit	1AC	
63			<b>5SY6463-6</b>			1	1 unit	1AB						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?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 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				
					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
		A	MW <sup>1)</sup>	d										
<b>Miniature circuit breakers 10000 A</b>														
<b>3P, 400 V AC</b>														
		0.5	3		5SY4305-5			1	1 unit	1AA	--			
		1			5SY4301-5			1	1 unit	1AA	--			
		1.6			5SY4315-5			1	1 unit	1AA	--			
		2			5SY4302-5			1	1 unit	1AA	--			
		3			5SY4303-5			1	1 unit	1AA	--			
		4			5SY4304-5			1	1 unit	1AA	--			
		6			5SY4306-5			1	1 unit	1AA	5SY4306-6	1	1 unit	1AB
		8			5SY4308-5			1	1 unit	1AA	--			
		10			5SY4310-5			1	1 unit	1AA	5SY4310-6	1	1 unit	1AB
		13			5SY4313-5			1	1 unit	1AA	5SY4313-6	1	1 unit	1AB
		16			5SY4316-5			1	1 unit	1AA	5SY4316-6	1	1 unit	1AB
		20			5SY4320-5			1	1 unit	1AA	5SY4320-6	1	1 unit	1AB
		25			5SY4325-5			1	1 unit	1AA	5SY4325-6	1	1 unit	1AB
		32			5SY4332-5			1	1 unit	1AA	5SY4332-6	1	1 unit	1AB
		40			5SY4340-5			1	1 unit	1AA	5SY4340-6	1	1 unit	1AB
		50			5SY4350-5			1	1 unit	1AA	5SY4350-6	1	1 unit	1AB
		63			5SY4363-5			1	1 unit	1AA	5SY4363-6	1	1 unit	1AB
		80			--						5SY4380-6	1	1 unit	1AB
<b>3P+N, 400 V AC</b>														
		1	4		5SY4601-5			1	1 unit	1AA	--			
		1.6			5SY4615-5			1	1 unit	1AA	--			
		2			5SY4602-5			1	1 unit	1AA	--			
		3			5SY4603-5			1	1 unit	1AA	--			
		4			5SY4604-5			1	1 unit	1AA	--			
		6			5SY4606-5			1	1 unit	1AA	5SY4606-6	1	1 unit	1AB
		8			5SY4608-5			1	1 unit	1AA	--			
		10			5SY4610-5			1	1 unit	1AA	5SY4610-6	1	1 unit	1AB
		13			5SY4613-5			1	1 unit	1AA	5SY4613-6	1	1 unit	1AB
		16			5SY4616-5			1	1 unit	1AA	5SY4616-6	1	1 unit	1AB
		20			5SY4620-5			1	1 unit	1AA	5SY4620-6	1	1 unit	1AB
		25			5SY4625-5			1	1 unit	1AA	5SY4625-6	1	1 unit	1AB
		32			5SY4632-5			1	1 unit	1AA	5SY4632-6	1	1 unit	1AB
		40			5SY4640-5			1	1 unit	1AA	5SY4640-6	1	1 unit	1AB
		50			5SY4650-5			1	1 unit	1AA	5SY4650-6	1	1 unit	1AB
		63			5SY4663-5			1	1 unit	1AA	5SY4663-6	1	1 unit	1AB
<b>4P, 400 V AC</b>														
		1	4		5SY4401-5			1	1 unit	1AA	--			
		1.6			5SY4415-5			1	1 unit	1AA	--			
		2			5SY4402-5			1	1 unit	1AA	--			
		3			5SY4403-5			1	1 unit	1AA	--			
		4			5SY4404-5			1	1 unit	1AA	--			
		6			5SY4406-5			1	1 unit	1AA	5SY4406-6	1	1 unit	1AB
		8			5SY4408-5			1	1 unit	1AA	--			
		10			5SY4410-5			1	1 unit	1AA	5SY4410-6	1	1 unit	1AB
		13			5SY4413-5			1	1 unit	1AA	5SY4413-6	1	1 unit	1AB
		16			5SY4416-5			1	1 unit	1AA	5SY4416-6	1	1 unit	1AB
		20			5SY4420-5			1	1 unit	1AA	5SY4420-6	1	1 unit	1AB
		25			5SY4425-5			1	1 unit	1AA	5SY4425-6	1	1 unit	1AB
		32			5SY4432-5			1	1 unit	1AA	5SY4432-6	1	1 unit	1AB
		40			5SY4440-5			1	1 unit	1AA	5SY4440-6	1	1 unit	1AB
		50			5SY4450-5			1	1 unit	1AA	5SY4450-6	1	1 unit	1AB
		63			5SY4463-5			1	1 unit	1AA	5SY4463-6	1	1 unit	1AB
		80			--						5SY4480-6	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 MW <sup>1)</sup>	SD	Characteristic C				Characteristic D							
			A		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>1P, 230/400 V AC</b>																	
																	
	0.3		1			5SY4114-7		1	1 unit	1AC		5SY4114-8		1	1 unit	1AA	
	0.5					5SY4105-7		1	1 unit	1AC		5SY4105-8		1	1 unit	1AA	
	1					5SY4101-7		1	1 unit	1AC		5SY4101-8		1	1 unit	1AA	
	1.6					5SY4115-7		1	1 unit	1AC		5SY4115-8		1	1 unit	1AA	
	2				▶	5SY4102-7		1	1 unit	1AC		5SY4102-8		1	1 unit	1AA	
	3					5SY4103-7		1	1 unit	1AC		5SY4103-8		1	1 unit	1AA	
	4				▶	5SY4104-7		1	1 unit	1AC		5SY4104-8		1	1 unit	1AA	
	5					5SY4111-7		1	1 unit	1AC		--					
	6				▶	5SY4106-7		1	1 unit	1AC		5SY4106-8		1	1 unit	1AA	
	8					5SY4108-7		1	1 unit	1AC		5SY4108-8		1	1 unit	1AA	
	10				▶	5SY4110-7		1	1 unit	1AC		5SY4110-8		1	1 unit	1AA	
	13					5SY4113-7		1	1 unit	1AC		5SY4113-8		1	1 unit	1AA	
	15					5SY4118-7		1	1 unit	1AC		--					
	16				▶	5SY4116-7		1	1 unit	1AC		5SY4116-8		1	1 unit	1AA	
	20					5SY4120-7		1	1 unit	1AC		5SY4120-8		1	1 unit	1AA	
	25					5SY4125-7		1	1 unit	1AC		5SY4125-8		1	1 unit	1AA	
	30					5SY4130-7		1	1 unit	1AC		--					
	32					5SY4132-7		1	1 unit	1AC		5SY4132-8		1	1 unit	1AA	
	35					5SY4135-7		1	1 unit	1AC		--					
	40					5SY4140-7		1	1 unit	1AC		5SY4140-8		1	1 unit	1AA	
	45					5SY4145-7		1	1 unit	1AC		--					
	50					5SY4150-7		1	1 unit	1AC		5SY4150-8		1	1 unit	1AA	
	60					5SY4160-7		1	1 unit	1AC		--					
	63					5SY4163-7		1	1 unit	1AC		5SY4163-8		1	1 unit	1AA	
	80					5SY4180-7		1	1 unit	1AC		--					
<b>1P+N, 230 V AC</b>																	
																	
	0.3		2			5SY4514-7		1	1 unit	1AC		5SY4514-8		1	1 unit	1AA	
	0.5					5SY4505-7		1	1 unit	1AC		5SY4505-8		1	1 unit	1AA	
	1					5SY4501-7		1	1 unit	1AC		5SY4501-8		1	1 unit	1AA	
	1.6					5SY4515-7		1	1 unit	1AC		5SY4515-8		1	1 unit	1AA	
	2					5SY4502-7		1	1 unit	1AC		5SY4502-8		1	1 unit	1AA	
	3					5SY4503-7		1	1 unit	1AC		5SY4503-8		1	1 unit	1AA	
	4					5SY4504-7		1	1 unit	1AC		5SY4504-8		1	1 unit	1AA	
	6					5SY4506-7		1	1 unit	1AC		5SY4506-8		1	1 unit	1AA	
	8					5SY4508-7		1	1 unit	1AC		5SY4508-8		1	1 unit	1AA	
	10					5SY4510-7		1	1 unit	1AC		5SY4510-8		1	1 unit	1AA	
	13					5SY4513-7		1	1 unit	1AC		5SY4513-8		1	1 unit	1AA	
	16					5SY4516-7		1	1 unit	1AC		5SY4516-8		1	1 unit	1AA	
	20					5SY4520-7		1	1 unit	1AC		5SY4520-8		1	1 unit	1AA	
	25					5SY4525-7		1	1 unit	1AC		5SY4525-8		1	1 unit	1AA	
	32					5SY4532-7		1	1 unit	1AC		5SY4532-8		1	1 unit	1AA	
	40					5SY4540-7		1	1 unit	1AC		5SY4540-8		1	1 unit	1AA	
	50					5SY4550-7		1	1 unit	1AC		5SY4550-8		1	1 unit	1AA	
	63					5SY4563-7		1	1 unit	1AC		5SY4563-8		1	1 unit	1AA	
	80					5SY4580-7		1	1 unit	1AC		--					
<b>2P, 400 V AC</b>																	
																	
	0.3		2			5SY4214-7		1	1 unit	1AC		5SY4214-8		1	1 unit	1AA	
	0.5					5SY4205-7		1	1 unit	1AC		5SY4205-8		1	1 unit	1AA	
	1					5SY4201-7		1	1 unit	1AC		5SY4201-8		1	1 unit	1AA	
	1.6					5SY4215-7		1	1 unit	1AC		5SY4215-8		1	1 unit	1AA	
	2				▶	5SY4202-7		1	1 unit	1AC		5SY4202-8		1	1 unit	1AA	
	3					5SY4203-7		1	1 unit	1AC		5SY4203-8		1	1 unit	1AA	
	4					5SY4204-7		1	1 unit	1AC		5SY4204-8		1	1 unit	1AA	
	5					5SY4211-7		1	1 unit	1AC		--					
	6				▶	5SY4206-7		1	1 unit	1AC		5SY4206-8		1	1 unit	1AA	
	8					5SY4208-7		1	1 unit	1AC		5SY4208-8		1	1 unit	1AA	
	10				▶	5SY4210-7		1	1 unit	1AC		5SY4210-8		1	1 unit	1AA	
	13					5SY4213-7		1	1 unit	1AC		5SY4213-8		1	1 unit	1AA	
	15					5SY4218-7		1	1 unit	1AC		--					
	16				▶	5SY4216-7		1	1 unit	1AC		5SY4216-8		1	1 unit	1AA	
	20					5SY4220-7		1	1 unit	1AC		5SY4220-8		1	1 unit	1AA	
	25					5SY4225-7		1	1 unit	1AC		5SY4225-8		1	1 unit	1AA	
	30					5SY4230-7		1	1 unit	1AC		--					
	32					5SY4232-7		1	1 unit	1AC		5SY4232-8		1	1 unit	1AA	
	35					5SY4235-7		1	1 unit	1AC		--					
	40					5SY4240-7		1	1 unit	1AC		5SY4240-8		1	1 unit	1AA	
	45					5SY4245-7		1	1 unit	1AC		--					
	50					5SY4250-7		1	1 unit	1AC		5SY4250-8		1	1 unit	1AA	
	60					5SY4260-7		1	1 unit	1AC		--					
	63					5SY4263-7		1	1 unit	1AC		5SY4263-8		1	1 unit	1AA	
	80					5SY4280-7		1	1 unit	1AC		--					

# 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>Miniature circuit breakers 10000 A</b>																
<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			--				
<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	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>							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, 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		--						



1) 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	$I_n$	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															
<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																	
	3																	
	4																	
	6																	
	8																	
	10																	
	13																	
	16																	
	20																	
	25																	
	32																	
40																		
50																		
63																		
	<b>2P, 400 V AC, 440 V DC</b>																	
	0.3	2	--															
	0.5		--															
	1		--															
	1.6		--															
	2		--															
	3		--															
	4		--															
	6																	
	8																	
	10																	
	13																	
	16																	
	20																	
	25																	
	32																	
40																		
50																		
63																		

<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							
					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 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		

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

**Note:**

The 5ST3600 or 5ST3630 busbars enable simple wiring of 4-pole miniature circuit breakers, [see page 3/59](#).








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

<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						
			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			5SY7114-7		1	1 unit	1AC		5SY7114-8		1	1 unit	1AA
		0.5				5SY7105-7		1	1 unit	1AC		5SY7105-8		1	1 unit	1AA
		1				5SY7101-7		1	1 unit	1AC		5SY7101-8		1	1 unit	1AA
		1.6				5SY7115-7		1	1 unit	1AC		5SY7115-8		1	1 unit	1AA
		2				5SY7102-7		1	1 unit	1AC		5SY7102-8		1	1 unit	1AA
		3				5SY7103-7		1	1 unit	1AC		5SY7103-8		1	1 unit	1AA
		4				5SY7104-7		1	1 unit	1AC		5SY7104-8		1	1 unit	1AA
		6				5SY7106-7		1	1 unit	1AC		5SY7106-8		1	1 unit	1AA
		8				5SY7108-7		1	1 unit	1AC		5SY7108-8		1	1 unit	1AA
		10				5SY7110-7		1	1 unit	1AC		5SY7110-8		1	1 unit	1AA
		13				5SY7113-7		1	1 unit	1AC		5SY7113-8		1	1 unit	1AA
		16				5SY7116-7		1	1 unit	1AC		5SY7116-8		1	1 unit	1AA
		20				5SY7120-7		1	1 unit	1AC		5SY7120-8		1	1 unit	1AA
		25				5SY7125-7		1	1 unit	1AC		5SY7125-8		1	1 unit	1AA
	32				5SY7132-7		1	1 unit	1AC		5SY7132-8		1	1 unit	1AA	
	40				5SY7140-7		1	1 unit	1AC		5SY7140-8		1	1 unit	1AA	
	50				5SY7150-7		1	1 unit	1AC		5SY7150-8		1	1 unit	1AA	
	63				5SY7163-7		1	1 unit	1AC		5SY7163-8		1	1 unit	1AA	
	<b>1P+N, 230 V AC</b>															
		0.3	2			5SY7514-7		1	1 unit	1AC		5SY7514-8		1	1 unit	1AA
		0.5				5SY7505-7		1	1 unit	1AC		5SY7505-8		1	1 unit	1AA
		1				5SY7501-7		1	1 unit	1AC		5SY7501-8		1	1 unit	1AA
		1.6				5SY7515-7		1	1 unit	1AC		5SY7515-8		1	1 unit	1AA
		2				5SY7502-7		1	1 unit	1AC		5SY7502-8		1	1 unit	1AA
		3				5SY7503-7		1	1 unit	1AC		5SY7503-8		1	1 unit	1AA
		4				5SY7504-7		1	1 unit	1AC		5SY7504-8		1	1 unit	1AA
		6				5SY7506-7		1	1 unit	1AC		5SY7506-8		1	1 unit	1AA
		8				5SY7508-7		1	1 unit	1AC		5SY7508-8		1	1 unit	1AA
		10				5SY7510-7		1	1 unit	1AC		5SY7510-8		1	1 unit	1AA
		13				5SY7513-7		1	1 unit	1AC		5SY7513-8		1	1 unit	1AA
		16				5SY7516-7		1	1 unit	1AC		5SY7516-8		1	1 unit	1AA
		20				5SY7520-7		1	1 unit	1AC		5SY7520-8		1	1 unit	1AA
		25				5SY7525-7		1	1 unit	1AC		5SY7525-8		1	1 unit	1AA
	32				5SY7532-7		1	1 unit	1AC		5SY7532-8		1	1 unit	1AA	
	40				5SY7540-7		1	1 unit	1AC		5SY7540-8		1	1 unit	1AA	
	50				5SY7550-7		1	1 unit	1AC		5SY7550-8		1	1 unit	1AA	
	63				5SY7563-7		1	1 unit	1AC		5SY7563-8		1	1 unit	1AA	
	<b>2P, 400 V AC</b>															
		0.3	2			5SY7214-7		1	1 unit	1AC		5SY7214-8		1	1 unit	1AA
		0.5				5SY7205-7		1	1 unit	1AC		5SY7205-8		1	1 unit	1AA
		1				5SY7201-7		1	1 unit	1AC		5SY7201-8		1	1 unit	1AA
		1.6				5SY7215-7		1	1 unit	1AC		5SY7215-8		1	1 unit	1AA
		2				5SY7202-7		1	1 unit	1AC		5SY7202-8		1	1 unit	1AA
		3				5SY7203-7		1	1 unit	1AC		5SY7203-8		1	1 unit	1AA
		4				5SY7204-7		1	1 unit	1AC		5SY7204-8		1	1 unit	1AA
		6				5SY7206-7		1	1 unit	1AC		5SY7206-8		1	1 unit	1AA
		8				5SY7208-7		1	1 unit	1AC		5SY7208-8		1	1 unit	1AA
		10				5SY7210-7		1	1 unit	1AC		5SY7210-8		1	1 unit	1AA
		13				5SY7213-7		1	1 unit	1AC		5SY7213-8		1	1 unit	1AA
		16				5SY7216-7		1	1 unit	1AC		5SY7216-8		1	1 unit	1AA
		20				5SY7220-7		1	1 unit	1AC		5SY7220-8		1	1 unit	1AA
		25				5SY7225-7		1	1 unit	1AC		5SY7225-8		1	1 unit	1AA
	32				5SY7232-7		1	1 unit	1AC		5SY7232-8		1	1 unit	1AA	
	40				5SY7240-7		1	1 unit	1AC		5SY7240-8		1	1 unit	1AA	
	50				5SY7250-7		1	1 unit	1AC		5SY7250-8		1	1 unit	1AA	
	63				5SY7263-7		1	1 unit	1AC		5SY7263-8		1	1 unit	1AA	

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						
					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




<sup>1)</sup> 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
A	MW <sup>1)</sup>	d										
<b>Miniature circuit breakers 25000 A</b>												
<b>1P, 230/400 V AC</b>												
	0.3	1	5SY8114-7		1	1 unit	1AC	5SY8114-8		1	1 unit	1AA
	0.5		5SY8105-7		1	1 unit	1AC	5SY8105-8		1	1 unit	1AA
	1		5SY8101-7		1	1 unit	1AC	5SY8101-8		1	1 unit	1AA
	1.6		5SY8115-7		1	1 unit	1AC	5SY8115-8		1	1 unit	1AA
	2		5SY8102-7		1	1 unit	1AC	5SY8102-8		1	1 unit	1AA
	3		5SY8103-7		1	1 unit	1AC	5SY8103-8		1	1 unit	1AA
	4		5SY8104-7		1	1 unit	1AC	5SY8104-8		1	1 unit	1AA
	6		5SY8106-7		1	1 unit	1AC	5SY8106-8		1	1 unit	1AA
	8		5SY8108-7		1	1 unit	1AC	5SY8108-8		1	1 unit	1AA
	10		5SY8110-7		1	1 unit	1AC	5SY8110-8		1	1 unit	1AA
	13		5SY8113-7		1	1 unit	1AC	5SY8113-8		1	1 unit	1AA
	16		5SY8116-7		1	1 unit	1AC	5SY8116-8		1	1 unit	1AA
	20		5SY8120-7		1	1 unit	1AC	5SY8120-8		1	1 unit	1AA
	25		5SY8125-7		1	1 unit	1AC	5SY8125-8		1	1 unit	1AA
	32		5SY8132-7		1	1 unit	1AC	5SY8132-8		1	1 unit	1AA
	40		5SY8140-7		1	1 unit	1AC	5SY8140-8		1	1 unit	1AA
50		5SY8150-7		1	1 unit	1AC	5SY8150-8		1	1 unit	1AA	
63		5SY8163-7		1	1 unit	1AC	5SY8163-8		1	1 unit	1AA	
<b>1P+N, 230 V AC</b>												
	0.3	2	5SY8514-7		1	1 unit	1AC	5SY8514-8		1	1 unit	1AA
	0.5		5SY8505-7		1	1 unit	1AC	5SY8505-8		1	1 unit	1AA
	1		5SY8501-7		1	1 unit	1AC	5SY8501-8		1	1 unit	1AA
	1.6		5SY8515-7		1	1 unit	1AC	5SY8515-8		1	1 unit	1AA
	2		5SY8502-7		1	1 unit	1AC	5SY8502-8		1	1 unit	1AA
	3		5SY8503-7		1	1 unit	1AC	5SY8503-8		1	1 unit	1AA
	4		5SY8504-7		1	1 unit	1AC	5SY8504-8		1	1 unit	1AA
	6		5SY8506-7		1	1 unit	1AC	5SY8506-8		1	1 unit	1AA
	8		5SY8508-7		1	1 unit	1AC	5SY8508-8		1	1 unit	1AA
	10		5SY8510-7		1	1 unit	1AC	5SY8510-8		1	1 unit	1AA
	13		5SY8513-7		1	1 unit	1AC	5SY8513-8		1	1 unit	1AA
	16		5SY8516-7		1	1 unit	1AC	5SY8516-8		1	1 unit	1AA
	20		5SY8520-7		1	1 unit	1AC	5SY8520-8		1	1 unit	1AA
	25		5SY8525-7		1	1 unit	1AC	5SY8525-8		1	1 unit	1AA
	32		5SY8532-7		1	1 unit	1AC	5SY8532-8		1	1 unit	1AA
	40		5SY8540-7		1	1 unit	1AC	5SY8540-8		1	1 unit	1AA
50		5SY8550-7		1	1 unit	1AC	5SY8550-8		1	1 unit	1AA	
63		5SY8563-7		1	1 unit	1AC	5SY8563-8		1	1 unit	1AA	
<b>2P, 400 V AC</b>												
	0.3	2	5SY8214-7		1	1 unit	1AC	5SY8214-8		1	1 unit	1AA
	0.5		5SY8205-7		1	1 unit	1AC	5SY8205-8		1	1 unit	1AA
	1		5SY8201-7		1	1 unit	1AC	5SY8201-8		1	1 unit	1AA
	1.6		5SY8215-7		1	1 unit	1AC	5SY8215-8		1	1 unit	1AA
	2		5SY8202-7		1	1 unit	1AC	5SY8202-8		1	1 unit	1AA
	3		5SY8203-7		1	1 unit	1AC	5SY8203-8		1	1 unit	1AA
	4		5SY8204-7		1	1 unit	1AC	5SY8204-8		1	1 unit	1AA
	6		5SY8206-7		1	1 unit	1AC	5SY8206-8		1	1 unit	1AA
	8		5SY8208-7		1	1 unit	1AC	5SY8208-8		1	1 unit	1AA
	10		5SY8210-7		1	1 unit	1AC	5SY8210-8		1	1 unit	1AA
	13		5SY8213-7		1	1 unit	1AC	5SY8213-8		1	1 unit	1AA
	16		5SY8216-7		1	1 unit	1AC	5SY8216-8		1	1 unit	1AA
	20		5SY8220-7		1	1 unit	1AC	5SY8220-8		1	1 unit	1AA
	25		5SY8225-7		1	1 unit	1AC	5SY8225-8		1	1 unit	1AA
	32		5SY8232-7		1	1 unit	1AC	5SY8232-8		1	1 unit	1AA
	40		5SY8240-7		1	1 unit	1AC	5SY8240-8		1	1 unit	1AA
50		5SY8250-7		1	1 unit	1AC	5SY8250-8		1	1 unit	1AA	
63		5SY8263-7		1	1 unit	1AC	5SY8263-8		1	1 unit	1AA	

1) 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	

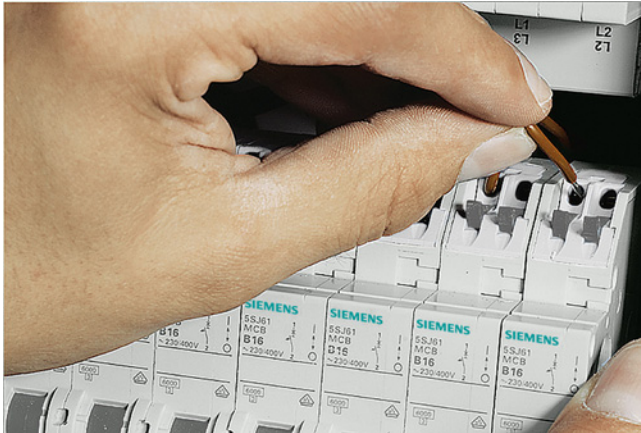
<sup>1)</sup> 1 MW (modular width) = 18 mm.



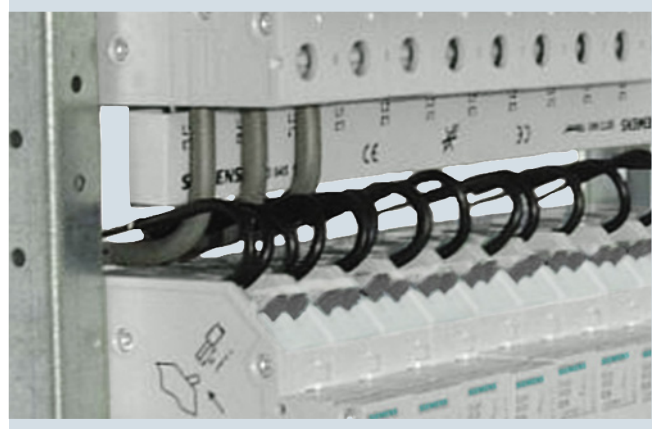
### Overview

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.

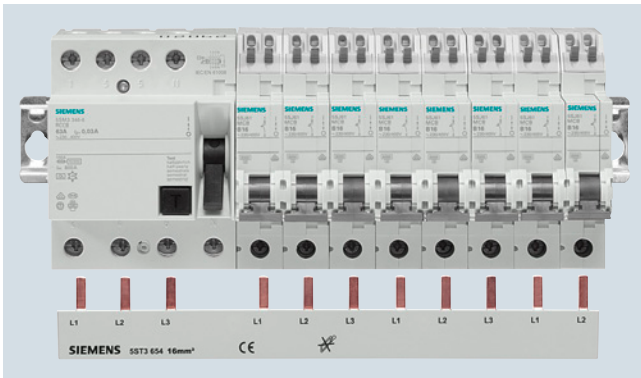
### Benefits



- 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.



- Conventional pin busbars are used for the incoming terminal. This ensures clear, manageable and convenient access to all terminals as part of the uniform Siemens connection concept.

## Miniature Circuit Breakers

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






#### Technical specifications

		5SJ6...-KS
<b>Standards</b>		EN 60898-1
<b>Approvals</b>		<a href="#">see chapter "Appendix"</a>
<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,</b> on average, with rated load		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.

## 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											
<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.

## Miniature Circuit Breakers

5SY Miniature Circuit Breakers, 1+N in 1 MW

### Introduction

#### Overview

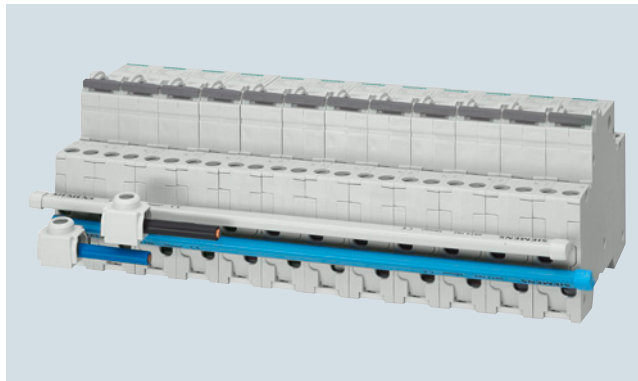
These miniature circuit breakers are used for the protection of systems and installations with switched neutral conductors in distribution boards with little space. They are just a single modular width.

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

		5SY30..	5SY60.. <sup>1)</sup>
<b>Standards</b>		EN 60898-1	
<b>Approvals</b>		<a href="#">see chapter "Appendix"</a>	
<b>Rated voltage <math>U_n</math></b>	V AC	230	
<b>Operational voltage</b>			
• Min.	V AC/DC	24	
• Max.	V AC	250	
	V DC/pole	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

### 5SY Miniature Circuit Breakers, 1+N in 1 MW

#### 5SY30, 4500 A

#### Selection and ordering data

4 500 3		$I_n$	Mounting width	SD	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
		A	MW <sup>1)</sup>	d					
<b>Miniature circuit breakers 4500 A</b>									
<b>1P+N, 230 V AC</b>									
	N connection, right								
	2		2		<b>5SY3002-7</b>		1	1 unit	1AE
	4				<b>5SY3004-7</b>		1	1 unit	1AE
	6				<b>5SY3006-7</b>		1	1 unit	1AE
	8				<b>5SY3008-7</b>		1	1 unit	1AE
	10				<b>5SY3010-7</b>		1	1 unit	1AE
	13				<b>5SY3013-7</b>		1	1 unit	1AE
	16				<b>5SY3016-7</b>		1	1 unit	1AE
	20				<b>5SY3020-7</b>		1	1 unit	1AE
	25				<b>5SY3025-7</b>		1	1 unit	1AE
32				<b>5SY3032-7</b>		1	1 unit	1AE	
40				<b>5SY3040-7</b>		1	1 unit	1AE	
	N connection, left								
	2		2		<b>5SY3002-7KL</b>		1	1 unit	1AE
	4				<b>5SY3004-7KL</b>		1	1 unit	1AE
	6				<b>5SY3006-7KL</b>		1	1 unit	1AE
	8				<b>5SY3008-7KL</b>		1	1 unit	1AE
	10				<b>5SY3010-7KL</b>		1	1 unit	1AE
	13				<b>5SY3013-7KL</b>		1	1 unit	1AE
	16				<b>5SY3016-7KL</b>		1	1 unit	1AE
	20				<b>5SY3020-7KL</b>		1	1 unit	1AE
	25				<b>5SY3025-7KL</b>		1	1 unit	1AE
32				<b>5SY3032-7KL</b>		1	1 unit	1AE	
40				<b>5SY3040-7KL</b>		1	1 unit	1AE	




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

## Miniature Circuit Breakers

5SY Miniature Circuit Breakers, 1+N in 1 MW

5SY60, 6000 A

### Selection and ordering data

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

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

<sup>2)</sup> Not for Belgium

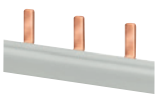
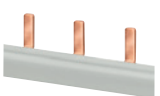


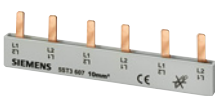


## Miniature Circuit Breakers

### 5SY Miniature Circuit Breakers, 1+N in 1 MW

#### 5ST busbar system

3

	Pin spacing MW <sup>1)</sup>	Length mm	SD 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
<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>Single-phase</b> For MCBs 1+N, gray	1	1016	<b>5ST3764</b>		1	10 units	1AD
	For MCBs 1+N, blue		1016					
<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
<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 For 9 MCBs 1+N For 12 MCBs 1+N	1	102 257.5 210	<b>5ST3613</b> <b>5ST3614</b> <b>5ST3615</b>		1	10 units	1AD
						1	10 units	1AD
						1	10 units	1AD
						1	10 units	1AD

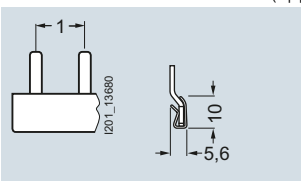
<sup>1)</sup> 1 MW (modular width) = 18 mm.

### Dimensional drawings

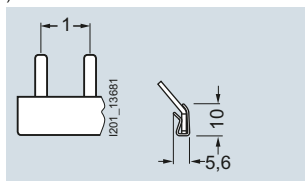
#### 5ST36

##### Pin spacing in MW

Dimensions of side view in mm (approx.).



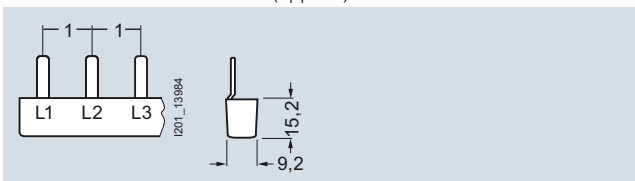
5ST3613  
5ST3614  
5ST3615



#### 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 can also be mounted on 5TE8 flush-mounting circuit breakers and 5SG71 MINIZED switch disconnectors.

#### 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.

#### 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. A tripped combination must be acknowledged prior to switching back on.

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.
- The 5ST3070 remote controlled mechanism has an extended temperature range from  $-40\text{ }^{\circ}\text{C}$  to  $+70\text{ }^{\circ}\text{C}$ .

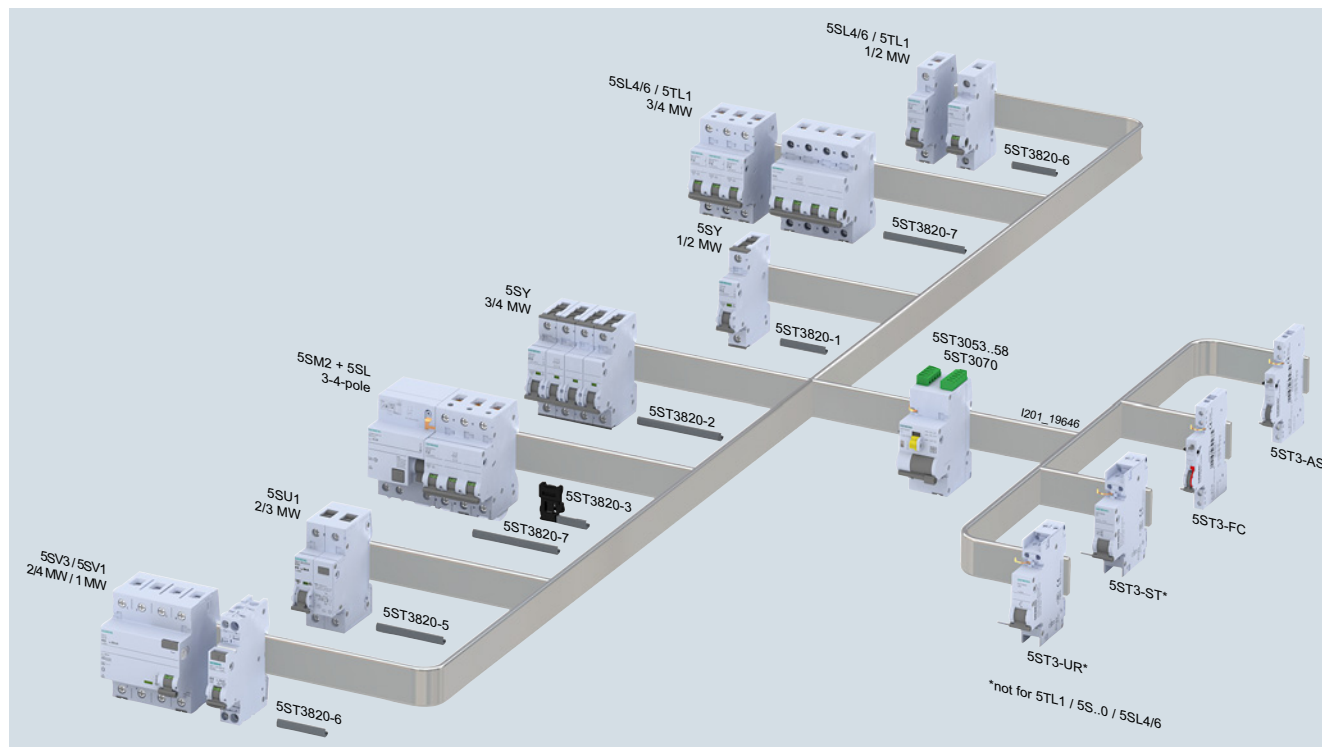
# Miniature Circuit Breakers

## Additional Components
























































### Electrical components

#### Portfolio overview

3



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

		5SL4/6 1-2 MW	5SL4/6 3-4 MW	5TL1 1-2 MW	5TL1 3-4 MW	5SY4/5/6/7/8   5SY60 1-2 MW	5SY4/5/6/7/8 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 5ST3820-6	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 5ST3820-6	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 5ST3820-6	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 5ST3820-6	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 5ST3820-6	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 5ST3820-6	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 5ST3820-6	Adapter 5ST3820-7	Adapter 5ST3820-1	Adapter 5ST3820-2

\* ARD = Auto Reclose Device













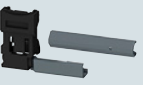

























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## Miniature Circuit Breakers

### Additional Components

#### Electrical components

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

	5SV3	5SU1	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	not compatible	 up to 3 MW Adapter 5ST3820-5	not compatible	not compatible	not compatible	not compatible
<b>RC mech. Basic (2 MW) – 5ST3054</b> 230 V AC	not compatible	 up to 3 MW Adapter 5ST3820-5	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 5ST3820-6	 Adapter 5ST3820-5	 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 5ST3820-6	 Adapter 5ST3820-5	 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 5ST3820-6	 Adapter 5ST3820-5	 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 5ST3820-6	 Adapter 5ST3820-5	 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 5ST3820-6	 Adapter 5ST3820-5	 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 lb-in	0.2 ... 0.25 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>		--			1 CO; 2 A; 250 V				
<b>Integrated fault signal contact</b>		--			1 CO; 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				

## 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	177 ... 270 V AC	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	177 ... 270 V AC		<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>	177 ... 270 V AC		<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:			<b>5ST3820-1</b>		1	1 unit	1AD
	- 5SY MCBs 1-2 MW							
	- 5SM2 RC unit with 5SY, 2-pole							
	• Adapters for:			<b>5ST3820-2</b>		1	1 unit	1AD
	- 5SY MCBs 3-4 MW							
	- 5SM2 RC unit with 5SY, 3-4-pole							
	• Adapters for:			<b>5ST3820-3</b>		1	1 unit	1AD
- 5SM2 RC unit								
• Adapters for:			<b>5ST3820-5</b>		1	1 unit	1AD	
- 5SU1 RCBOs								
• Adapters for:			<b>5ST3820-6</b>		1	1 unit	1AD	
- 5SL MCBs 1-2-pole								
- 5TL1 1-2-pole								
- 5SV3 RCCBs 2/4-pole								
- 5SM2 RC unit with 5SL, 2-pole								
• Adapters for:			<b>5ST3820-7</b>		1	1 unit	1AD	
- 5SL MCBs 3-4-pole								
- 5TL1 3-4-pole								
- 5SM2 RC unit with 5SL, 3-4-pole								

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

### Technical specifications

	Auxiliary switches (AS)		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>	5ST3020, 5ST3020-2 5ST3021, 5ST3021-2 5ST3022, 5ST3022-2	
<b>Standards</b>	IEC/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>	<ul style="list-style-type: none"> <li>&lt; 500 A: 5SL B6/C6 miniature circuit breakers</li> <li>Up to 1 kA: 5SY B6/C6 miniature circuit breakers or gG 6 A fuse</li> </ul>			
<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	
• 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
- 230 V AC, AC-14, NO	A	6	--	6
- 400 V AC, AC-13, NC	A	2	--	2
- 230 V AC, AC-13, NC	A	6	--	6
• Acc. to IEC/EN 62019 (acc. to IEC/EN 60947-5-1):				
- 220 V DC, DC-13, NO + NC	A	1 (0.5)	--	1 (0.5)
- 110 V DC, DC-13, NO + NC	A	1 (0.75)	--	1 (0.75)
- 60 V DC, DC-13, NO + NC	A	3 (1.5)	--	3 (1.5)
- 24 V DC, DC-13, NO + NC	A	6 (3)	--	6 (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>Rated frequency</b>	Hz	50/60		
<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>Undervoltage releases (UR)</b>	<b>Shunt trips (ST)</b>
			<b>5ST304.</b>	<b>5ST3030</b> <b>5ST3031</b>
<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
• Operating range $U_n$		0.85 ... 1.1 × $U_n$	0.7 ... 1.1 × $U_n$	
• Rated frequency $f_n$	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> AWG	0.5 ... 2.5 22 ... 14		
<b>Terminals</b>				
• Terminal tightening torque	Nm lb-in	0.8 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		
<b>Behavior in the event of control voltage failure</b>	--			







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

## 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>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 For low power	0.5	▶	<b>5ST3010</b> <b>5ST3013</b>		1 1	1 unit 1 unit	1AD 1AD	
	2 NO For low power			<b>5ST3011</b> <b>5ST3014</b>		1 1	1 unit 1 unit	1AD 1AD	
	2 NC For low power			<b>5ST3012</b> <b>5ST3015</b>		1 1	1 unit 1 unit	1AD 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 For low power	0.5		<b>5ST3010-2</b> <b>5ST3013-2</b>		1 1	1 unit 1 unit	1AD 1AD	
	2 NO For low power			<b>5ST3011-2</b> <b>5ST3014-2</b>		1 1	1 unit 1 unit	1AD 1AD	
	2 NC For low power			<b>5ST3012-2</b> <b>5ST3015-2</b>		1 1	1 unit 1 unit	1AD 1AD	
	<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	0.5	▶	<b>5ST3020</b>		1	1 unit	1AD	
	2 NO			<b>5ST3021</b>		1	1 unit	1AD	
	2 NC			<b>5ST3022</b>		1	1 unit	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	0.5	▶	<b>5ST3020-2</b>		1	1 unit	1AD	
	2 NO			<b>5ST3021-2</b>		1	1 unit	1AD	
	2 NC			<b>5ST3022-2</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	1	▶	<b>5ST3040</b>		1	1 unit	1AD	
	110 DC			<b>5ST3041</b>		1	1 unit	1AD	
	24 DC			<b>5ST3042</b>		1	1 unit	1AD	
	Without integrated auxiliary switch								
	230 AC	1	▶	<b>5ST3043</b>		1	1 unit	1AD	
110 DC			<b>5ST3044</b>		1	1 unit	1AD		
24 DC			<b>5ST3045</b>		1	1 unit	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	1	▶	<b>5ST3030</b>		1	1 unit	1AD	
	24 ... 48 V AC/DC	1	▶	<b>5ST3031</b>		1	1 unit	1AD	

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

Rated residual current	Rated current	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
$I_{\Delta n}$ mA	$I_n$ A	MW <sup>1)</sup>	d					

**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> • For 5SY, but not for 5SYx0 1+N in 1 MW • For 5SP4, 5SL, 5TL1, 5TE2, 5TE8, 5SU1						
<b>Versions</b>							
• Handle black • Handle red/yellow			<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
	<b>Spacers</b> Can be placed on either side of the standard mounting rail. Two spacers allow for convenient cable routing		<b>5TG8240</b>	0.5	1	2 units	1BK
	<b>Device labels</b> Adhesive, for modular installation devices, e.g. 5SY, 5SL, 5TL1, etc.						
<b>Versions</b>							
• 15 mm x 6 mm, white (WIN 098) • 15 mm x 6 mm, yellow (WIN 099)			<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

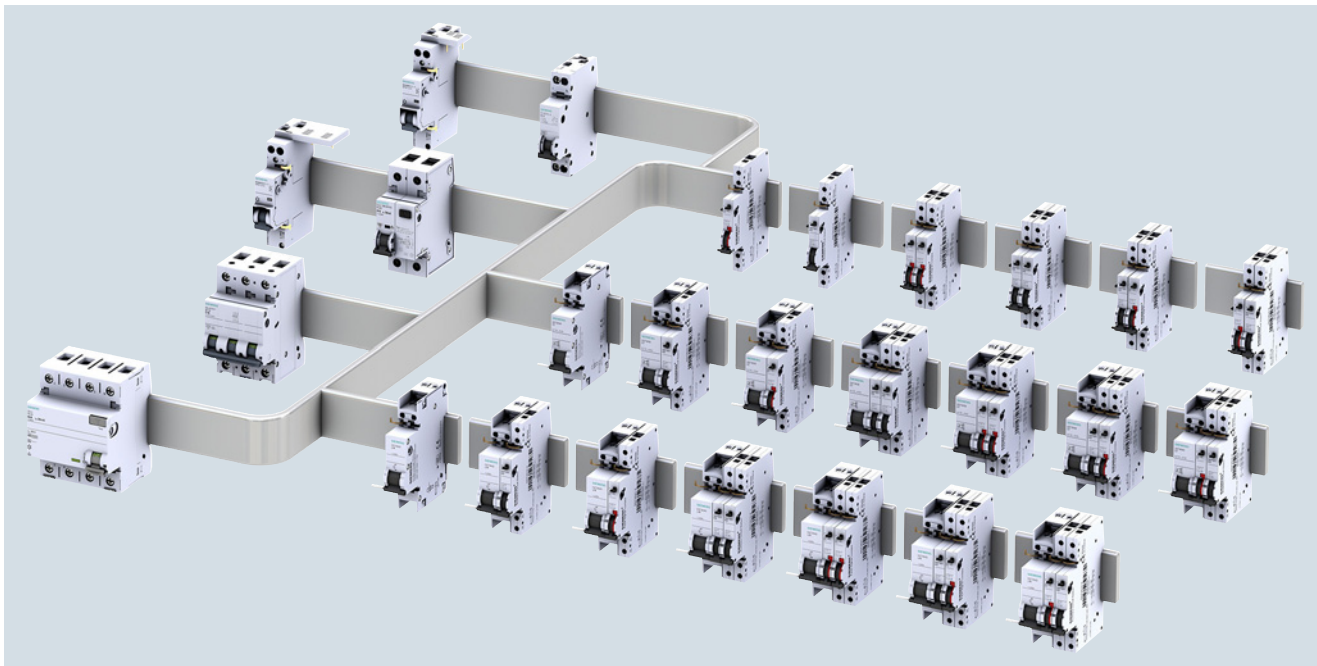
### Additional Components

#### 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.

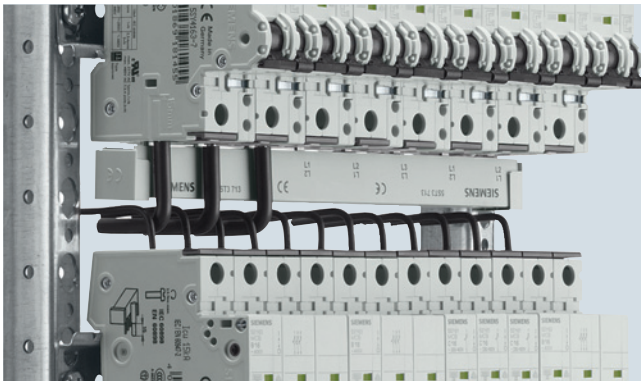
The extremely flexible 5ST36 busbar system with fixed lengths also enables installation in any length as the busbars can be overlapped.

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.

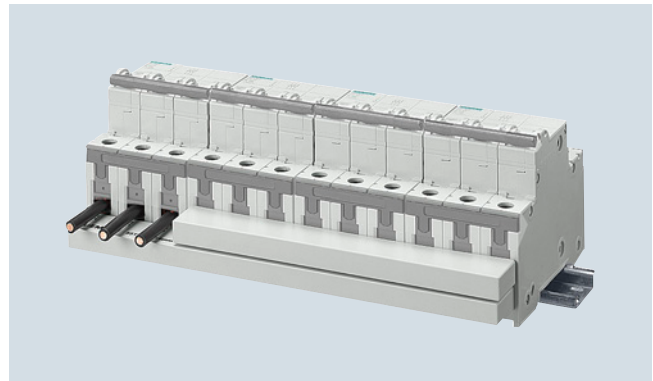
Any free pins on the busbars can be made safe by covering with touch protection.

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)".

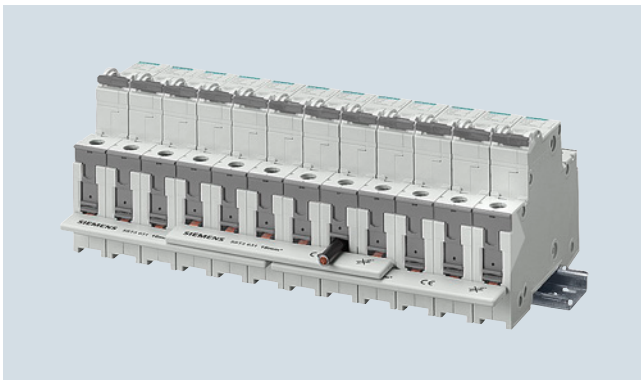
### Benefits



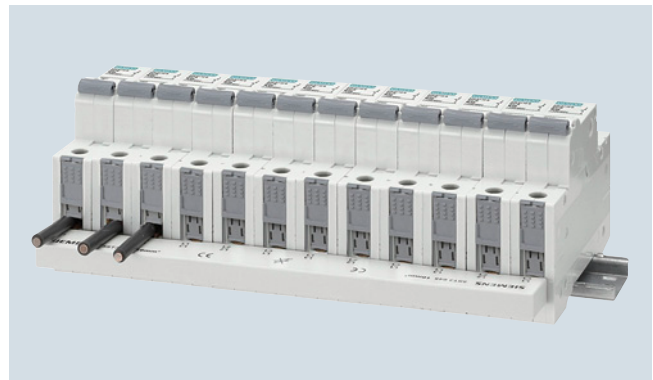
- Between the rows of devices, the busbar, which is located at the bottom and behind the conductor, provides an optimum wiring space with easy view of the inserted conductor. This enables easy control of connections.



- 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

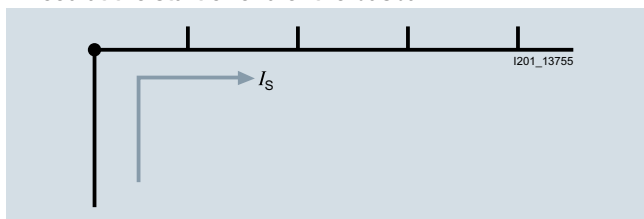
## Busbars

### 5ST standard busbars

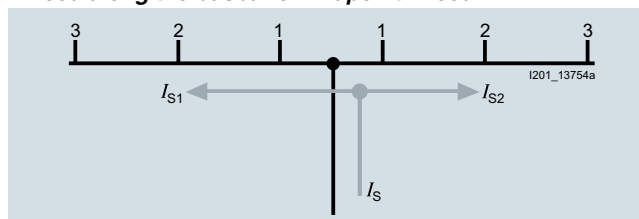
#### Technical specifications

			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, Cycloyl 3600 Heat-resistant over 90 °C Flame-retardant and self-extinguishing, dioxin and halogen-free		
<b>Rated operating 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


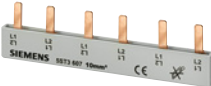

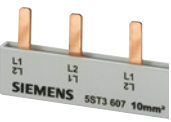


#### Infeed along the busbar or midpoint infeed



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

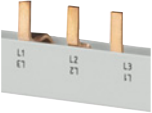
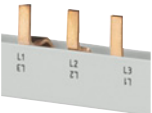


## Busbars

### 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 MW <sup>1)</sup>	Length mm	SD 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
<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.								

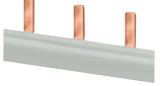
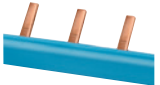

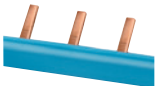




<sup>1)</sup> 1 MW (modular width) = 18 mm.

## 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>										
	• N conductor blue	125	1		<b>5ST3781-0</b>		1	10 units	1AD	
	• Cable black					<b>5ST3791-0</b>		1	10 units	1AD
	• Cable black		3			<b>5ST3793-0</b>		1	3 units	1AD
	• N conductor blue	150	1		<b>5ST3781-1</b>		1	10 units	1AD	
	• Cable black					<b>5ST3791-1</b>		1	10 units	1AD
	• Cable black		3			<b>5ST3793-1</b>		1	3 units	1AD
<b>Series connectors, 16 mm<sup>2</sup></b>										
	• N conductor blue	125	1		<b>5ST3782-0</b>		1	10 units	1AD	
	• Cable black					<b>5ST3792-0</b>		1	10 units	1AD
	• Cable black		3			<b>5ST3794-0</b>		1	3 units	1AD
	• N conductor blue	150	1		<b>5ST3782-1</b>		1	10 units	1AD	
	• Cable black					<b>5ST3792-1</b>		1	10 units	1AD
	• Cable black		3			<b>5ST3794-1</b>		1	3 units	1AD
	• N conductor blue	200	1		<b>5ST3781-2</b>		1	10 units	1AD	
	• Cable black					<b>5ST3791-2</b>		1	10 units	1AD
	• Cable black		3			<b>5ST3793-2</b>		1	3 units	1AD
• Cables:	3+N				<b>5ST3793-3</b>		1	3 units	1AD	
- 3 x black										
- 1 x blue										

	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, 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
<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
<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

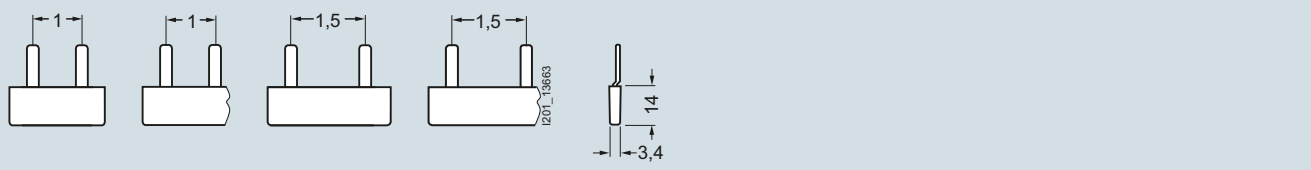
### 5ST standard busbars

#### Dimensional drawings

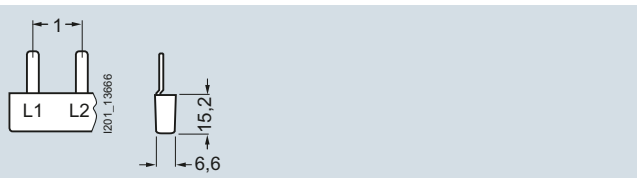
##### 5ST36

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

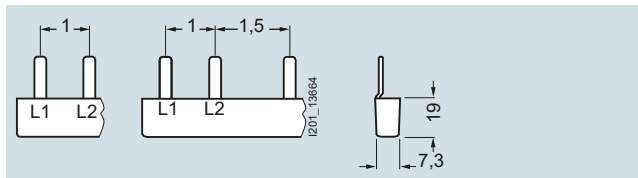
Dimensions of side view in mm (approx.)



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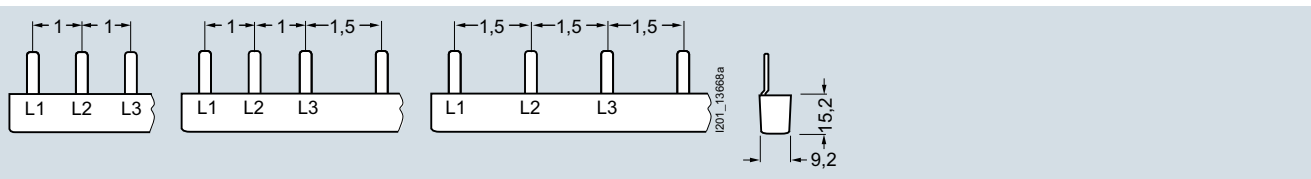


5ST3606  
5ST3607  
5ST3608

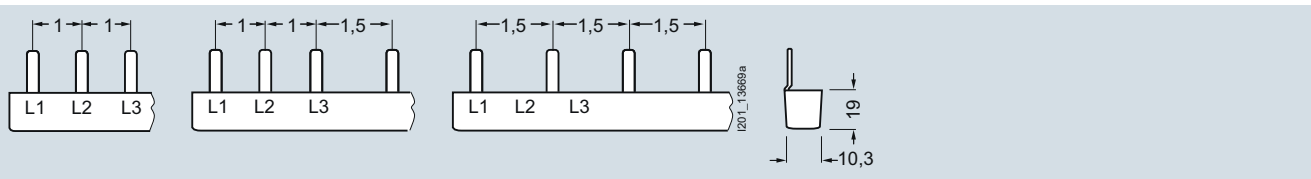


5ST3636  
5ST3637  
5ST3638

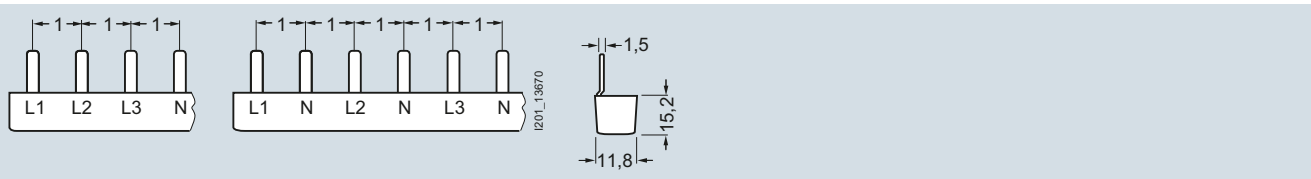
5ST3640  
5ST3641  
5ST3642



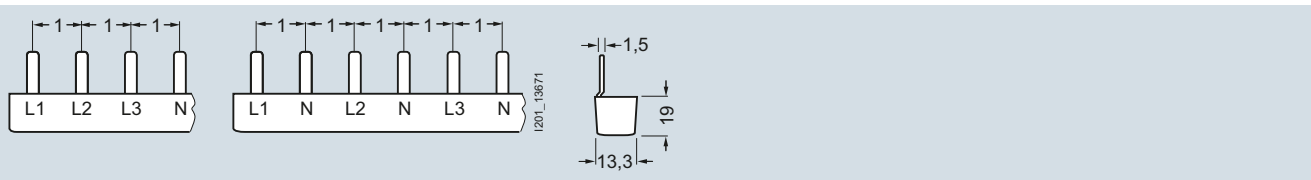
5ST3613 5ST3614 5ST3615 5ST3667	5ST3616 5ST3617	5ST3618 5ST3620
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5ST3643 5ST3644 5ST3645 5ST3668	5ST3646 5ST3647	5ST3648 5ST3650
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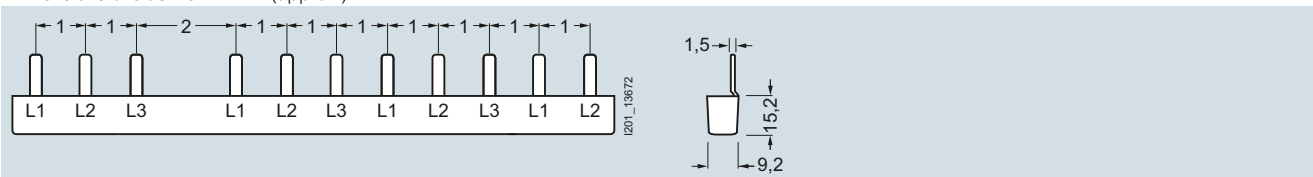
5ST3621 5ST3622	5ST3623
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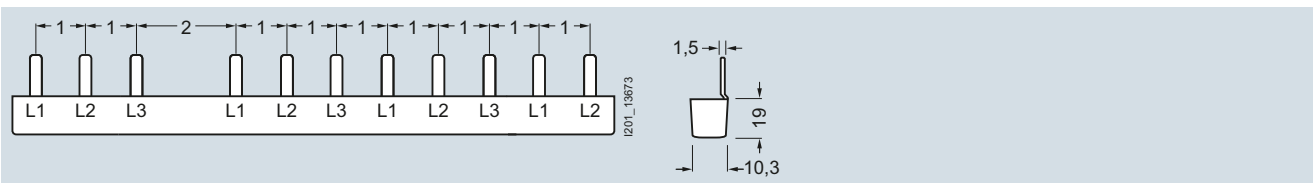
5ST3651 5ST3652	5ST3653
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**5ST36**  
Pin spacing in MW (modular width; 1 MW = 18 mm)

Dimensions of side view in mm (approx.)



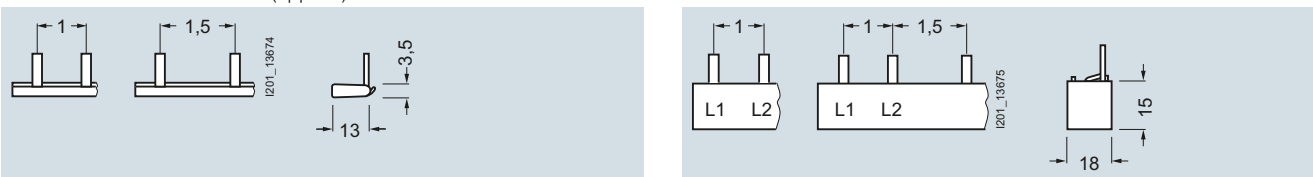
5ST3624



5ST3654

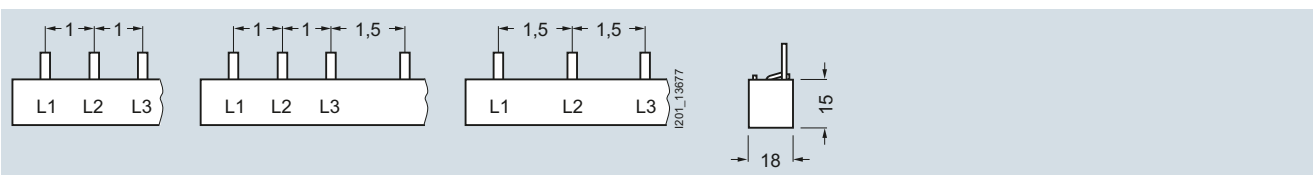
**5ST37**  
Pin spacing in MW (modular width; 1 MW = 18 mm)

Dimensions of side view in mm (approx.)

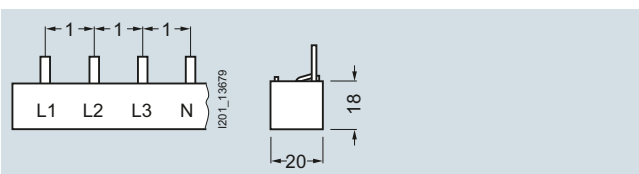


5ST3700    5ST3702  
5ST3701    5ST3703  
5ST3730    5ST3732  
5ST3731    5ST3733  
Single-phase    Single-phase

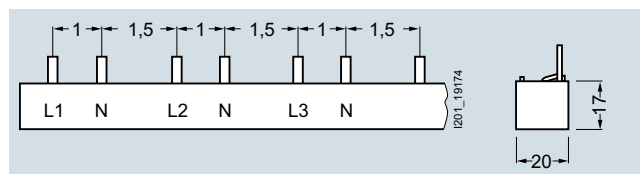
5ST3704    5ST3706  
5ST3705    5ST3707  
5ST3734    5ST3736  
5ST3735    5ST3737  
Two-phase    Two-phase



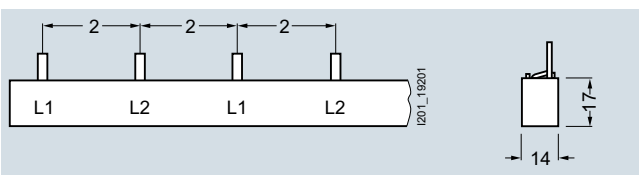
5ST3708    5ST3711    5ST3713  
5ST3710    5ST3712    5ST3714  
5ST3738    5ST3741    5ST3743  
5ST3740    5ST3742    5ST3744



5ST3715  
5ST3716  
5ST3745  
5ST3746



5ST3746-2



5ST3735-2

# Miniature Circuit Breakers

## Busbars

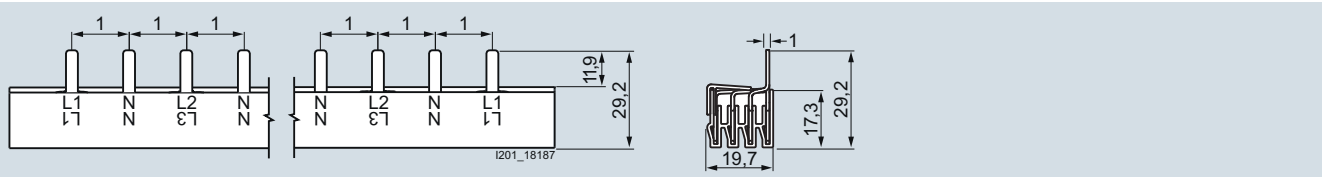
### 5ST standard busbars

#### 5ST37

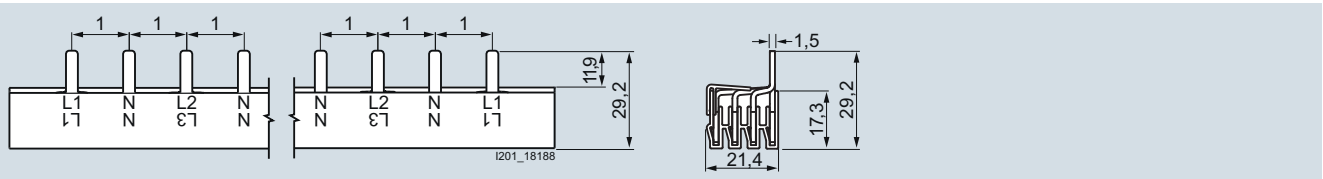
Pin spacing in MW (modular width; 1 MW = 18 mm)

Dimensions of side view in mm (approx.)

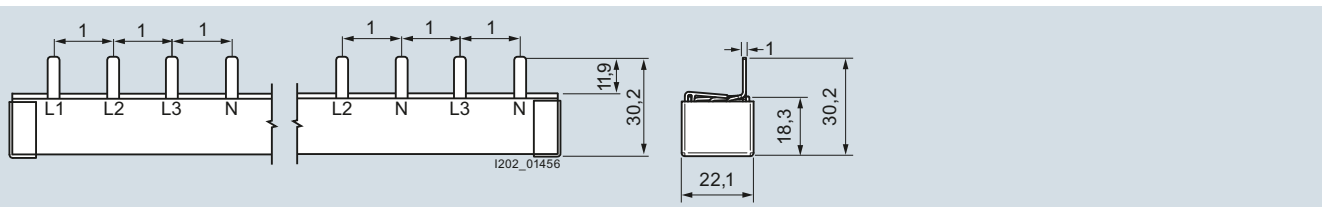
3



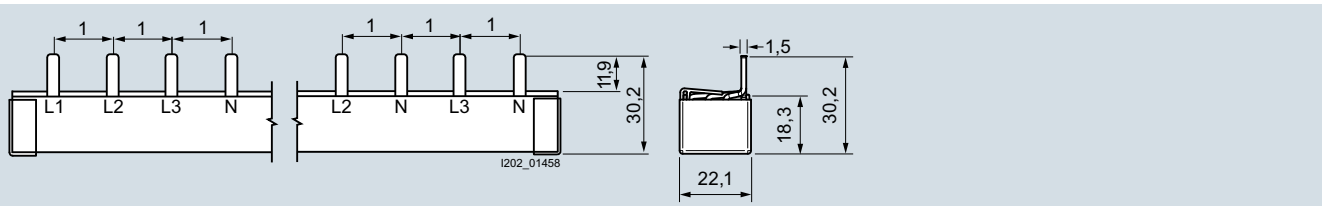
5ST3770-2



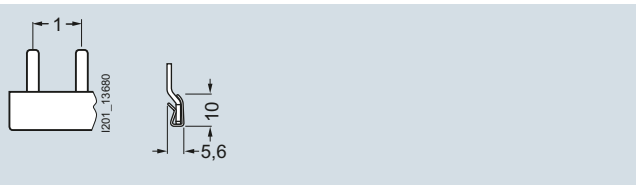
5ST3770-3



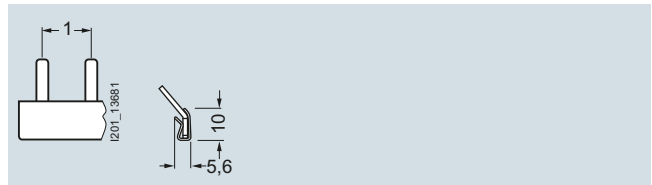
5ST3770-4



5ST3770-5



5ST3762  
5ST3764



5ST3763  
5ST3765



### Overview

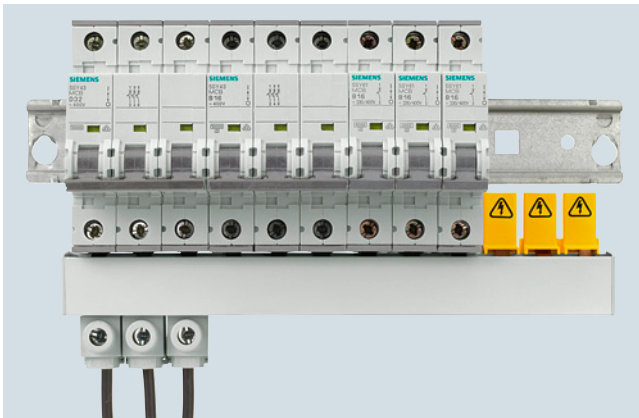
Products according to UL standards are used in North America, but also in several other countries. This is important in particular for exporting machines or electrical switchboard assemblies and equipment to the USA. Acceptance and delivery are possible only if the relevant UL standards are satisfied.

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.

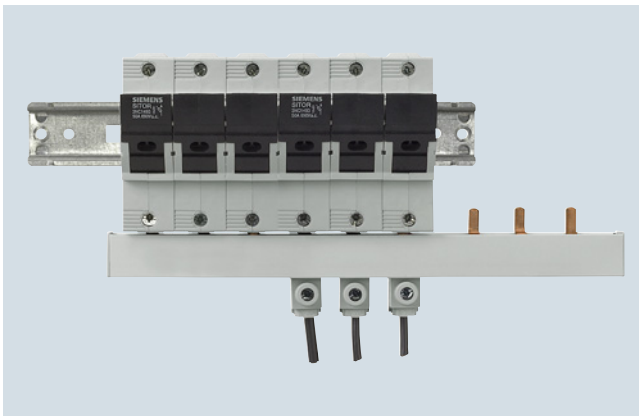
### Benefits



- 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

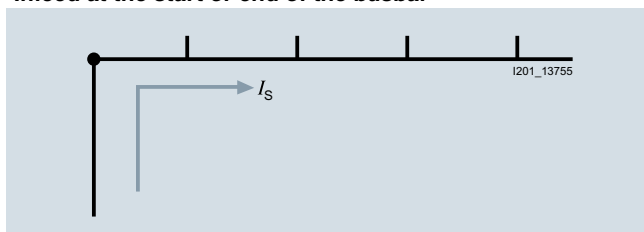
## Busbars

### 5ST3 busbars acc. to UL 508

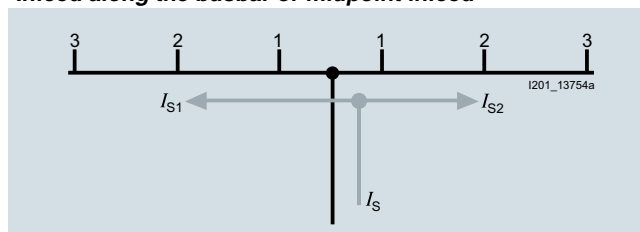
#### Technical specifications

		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



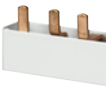


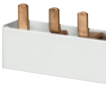







#### Infeed along the busbar or midpoint infeed



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?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...-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

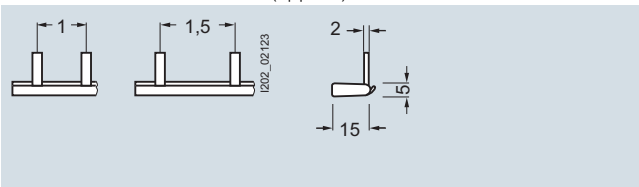
### 5ST3 busbars acc. to UL 508

#### Dimensional drawings

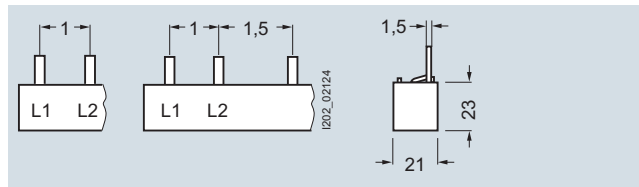
##### 5ST37 busbars

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

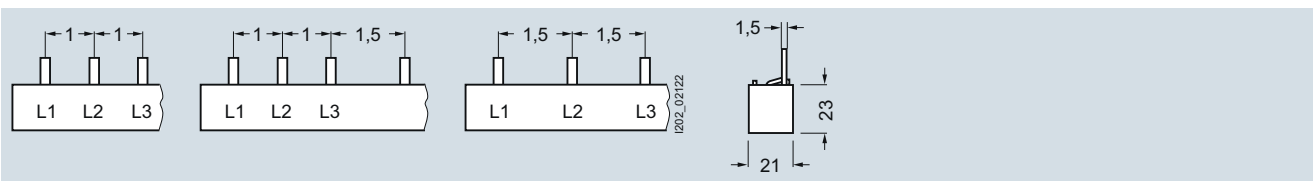
Dimensions of side view in mm (approx.)



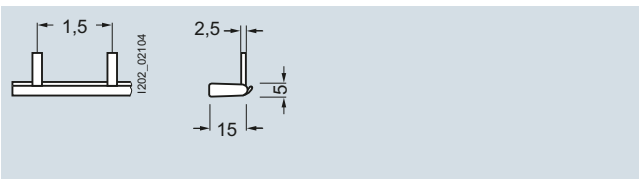
5ST3701-0HG 5ST3703-0HG



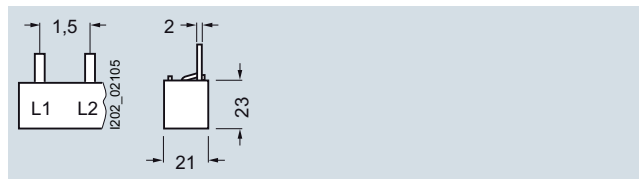
5ST3705-0HG 5ST3707-0HG



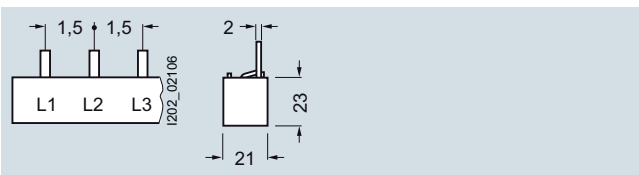
5ST3710-0HG 5ST3712-0HG 5ST3714-0HG



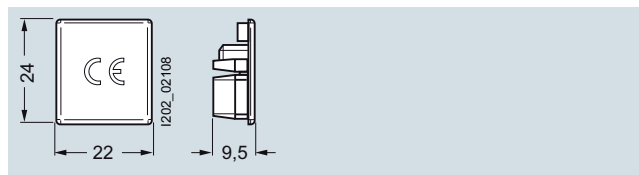
5ST3701-2HG



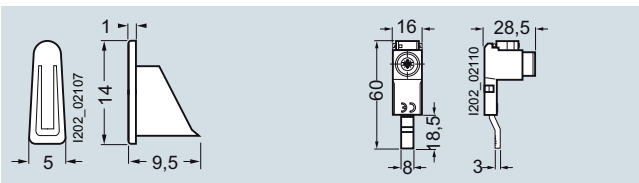
5ST3705-2HG



5ST3710-2HG

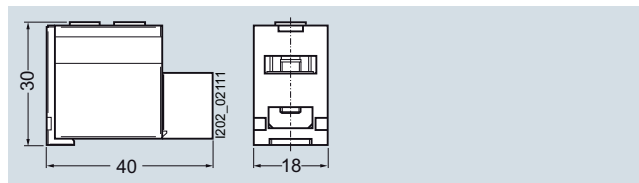


5ST3750-0HG



5ST3748-0HG

5ST3770-0HG

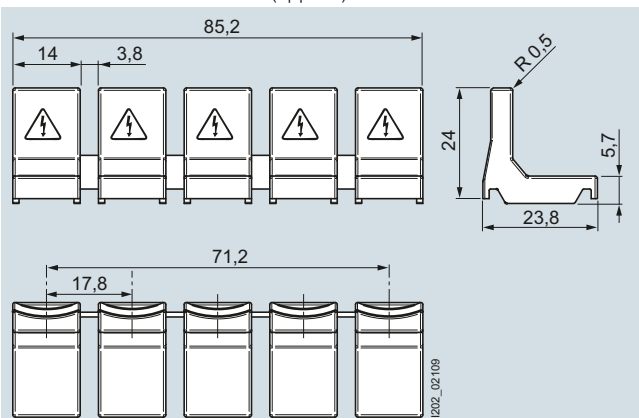


5ST3770-1HG

##### 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>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





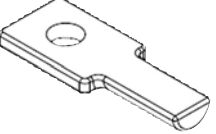
### 5ST2 distribution blocks

#### 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		
		Nm	1.5 ... 3	2 ... 3	1.5 ... 3	3.5 ... 7		
	Plug-in connection		PZ2			Standard screwdriver		
	Small	lb-in	7 ... 13.2	--	--	18 ... 27		
		Nm	0.8 ... 1.5	--	--	2 ... 3		
	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>								
• UL, max. (AC)		V	600					
• IEC, max. (AC/DC)		V	1000/1500					
<b>Overcurrent protection</b>								
<b>• Required class</b>			J					
• Max. rated current (UL/IEC)		A	80/80	115/125	160/160	230/250	310/400	
• SCCR RMS Sym A		kA	100					
• Rated peak withstand current ( $I_{pk}$ )		kA	2.7	30		51		
• Rated short-time withstand current ( $I_{cw}$ 1 s)		kA	1.9	4.2	11	21		
<b>Clearance</b>								
• Air		inches (mm)	3 / 8 (9.5)					
• Creepage distance		inches (mm)	1 / 2 (12.7)					
<b>Ambient temperature</b>			°C -25 ... +75					
<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> <sup>1)</sup>	Lateral incoming feeder for parallel connection with copper bar (max. 16 x 5 mm)	--	--	

<sup>1)</sup> 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?Article No.">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

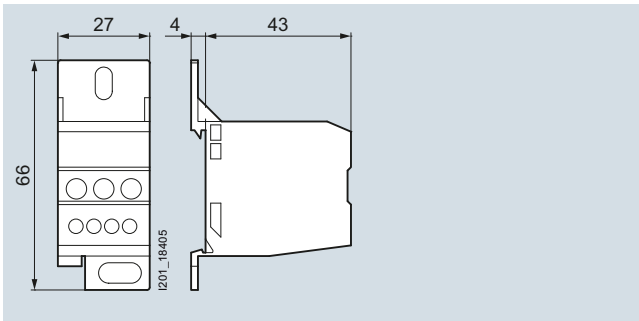


# Miniature Circuit Breakers

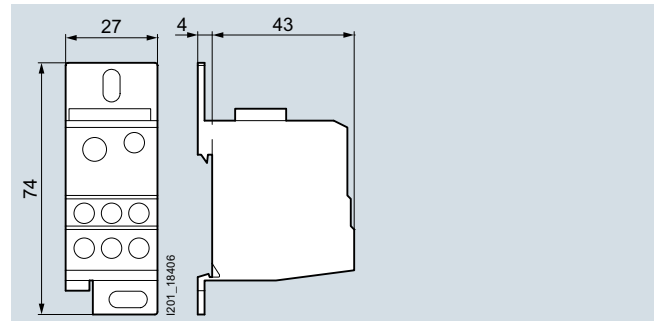
## Busbars

### 5ST2 distribution blocks

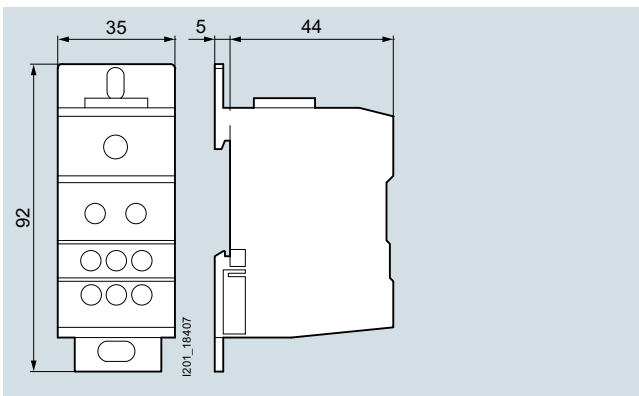
#### Dimensional drawings



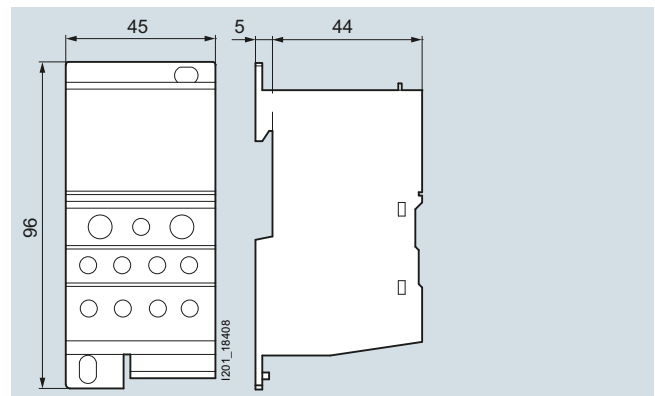
5ST2504



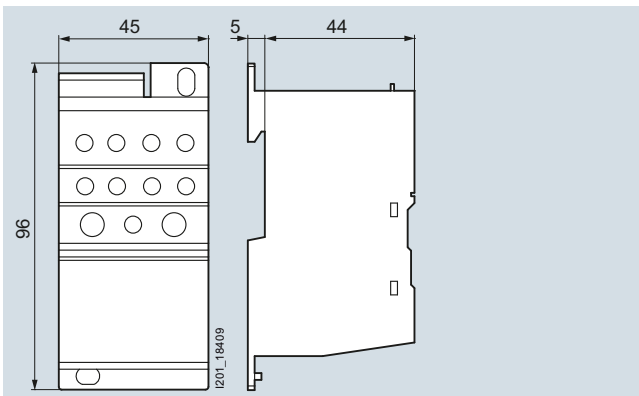
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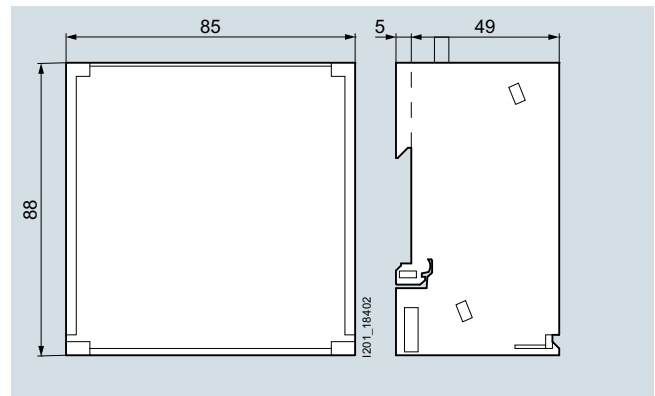
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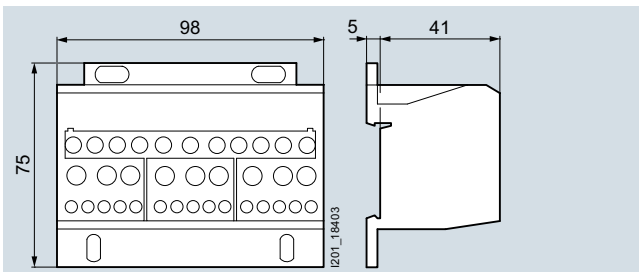
5ST2508



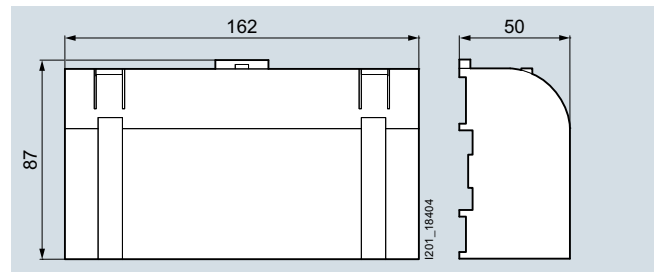
5ST2511



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.


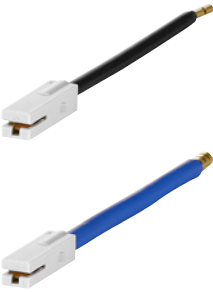


High degree of protection because each contact is locked individually.

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		
	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	1AD
	<b>Fixing brackets</b>									
	For mounting on the rear of the standard mounting rail (pair)					<b>5ST2533</b>		1	2 units	1AD

#### 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.

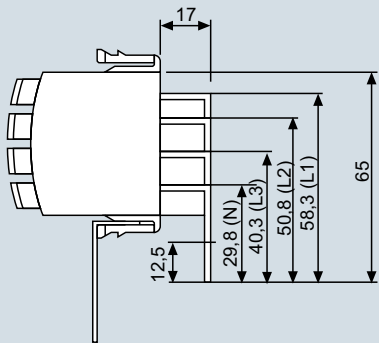
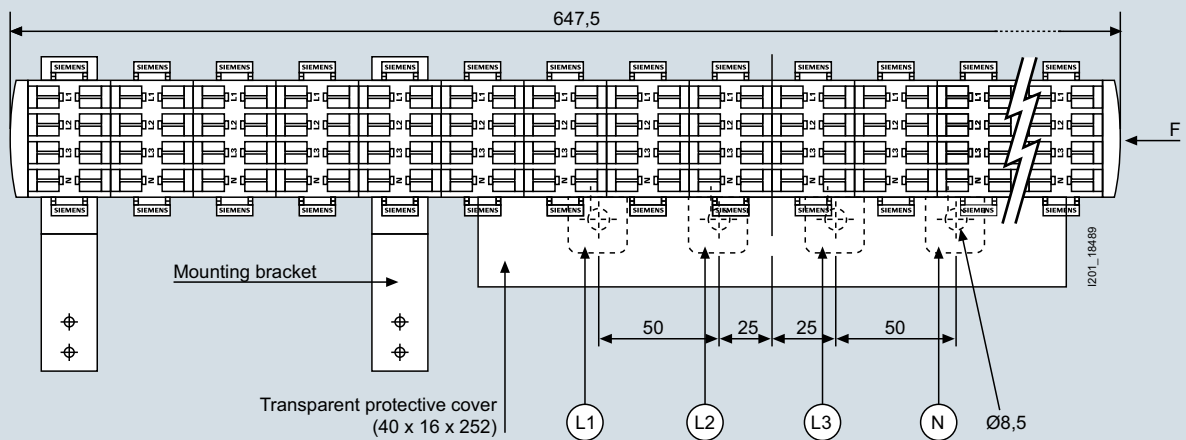
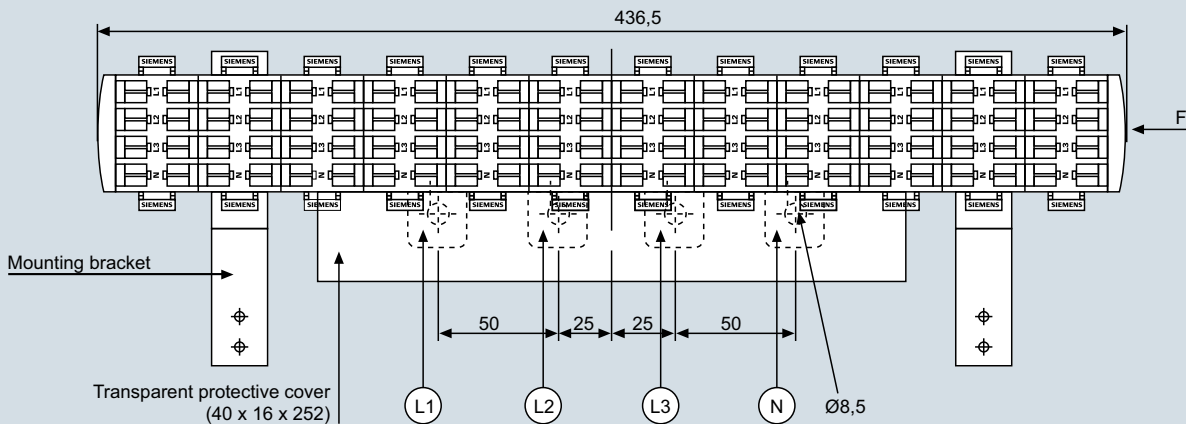
# Miniature Circuit Breakers

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.

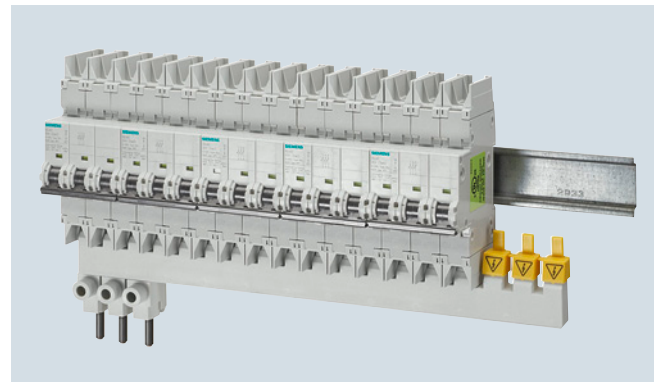
The terminals are suitable for "field wiring". This means that the devices can be installed not only in factory-built distribution boards and control cabinets, but also on-site in a customer system.

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.

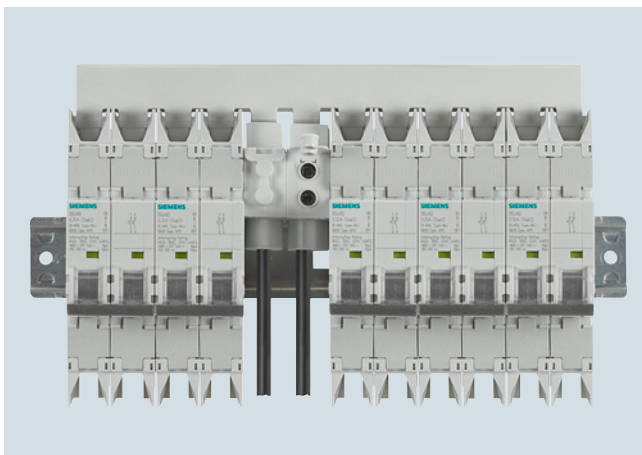
Single, two and three-phase busbars in 3 lengths with 6, 12 or 18 pins are available as accessories for all device series for "field wiring". The infeed is via connection terminals, which are available in two versions, for direct infeed at either the busbar or the miniature circuit breakers. Pins that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

## Benefits

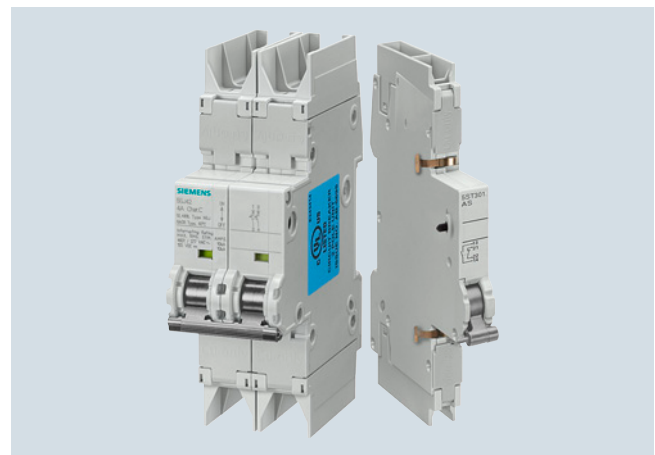
- Can be used globally for all applications in residential, non-residential and industrial buildings. This facilitates the planning of installations and enhances export opportunities
- The devices can be used according to IEC/EN 60898-1 and UL 489, which means they can be installed anywhere in the world
- 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		
<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 NC: AC-13 A, NO: AC-14 A	400 2	230 6		110 ... 415 --	24 ... 60 --
	V DC DC-13 A	220 1 (0.5)	110 1 (0.75)	60 3 (1.5)	24 6 (3)	24 ... 60 --
• Acc. to UL	V AC	480	277	240	120	110 ... 480 24 ... 60
	A AC	1.5	3	4	6	-- --
	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		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 V AC	1000/1-pole 1000/1-pole		600/2- to 3-pole 600/2- to 3-pole (60 Hz)		
• Acc. to IEC • 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 • Surge strength	kV/mm kV	35 > 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 III				
• Pollution degree • 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 • Solid and stranded	AWG mm <sup>2</sup>	-- --	-- --	14 ... 2 2.5 ... 35	14 ... 1 2.5 ... 50	14 ... 2 2.5 ... 35
<b>Terminals</b>				6 mm Allen key		± screw (Pozidriv) 2
• 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

<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 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		--				

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											
<b>Miniature circuit breakers 3P, 480Y/277 V AC</b>													
0.3	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		--				

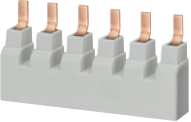
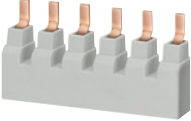






	Mounting width	SD	Article No. <a href="http://www.siemens.com/product?Article.No.">www.siemens.com/product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
<b>Auxiliary switches (AS) acc. to UL 489</b>							
	1 NO + 1 NC		5ST3010-0HG		1	1 unit	1AE
	2 NO		5ST3011-0HG		1	1 unit	1AE
	2 NC		5ST3012-0HG		1	1 unit	1AE
<b>Fault signal contacts (FC) acc. to UL 489</b>							
	1 NO + 1 NC		5ST3020-0HG		1	1 unit	1AE
	2 NO		5ST3021-0HG		1	1 unit	1AE
	2 NC		5ST3022-0HG		1	1 unit	1AE
<b>Shunt trips (ST) acc. to UL 489</b>							
	110 ... 480 V AC		5ST3030-0HG		1	1 unit	1AE
	24 ... 60 V AC/DC		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

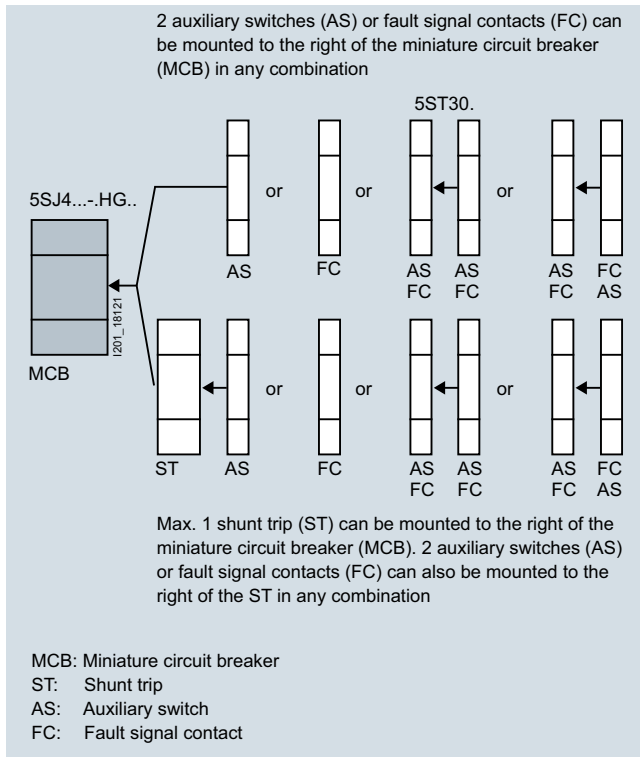
	Pin spacing	Length	SD	Article No. <a href="http://www.siemens.com/product?Article No.">www.siemens.com/ product?Article No.</a>	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW <sup>1)</sup>	mm	d					
<b>Touch protection covers for busbars acc. to UL 489</b>								
	<b>Touch protection covers</b> 3 × 1 pin			<b>5ST3666-1HG</b>		1	10 units	1AE
	<b>Touch protection covers</b> • For 5ST37...-3HG busbars that can be cut only • 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.







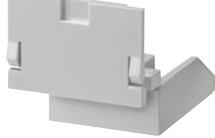
# Miniature Circuit Breakers

## 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	<b>5SP3716-3</b>		1	1 unit	1AE
	20		<b>5SP3720-3</b>		1	1 unit	1AE
	25		<b>5SP3725-3</b>		1	1 unit	1AE
	35		<b>5SP3735-3</b>		1	1 unit	1AE
	40		<b>5SP3740-3</b>		1	1 unit	1AE
	50		<b>5SP3750-3</b>		1	1 unit	1AE
	63		<b>5SP3763-3</b>		1	1 unit	1AE
<b>Main miniature circuit breakers, 3 x 1P</b>							
	16	4.5	<b>5SP3816-3</b>		1	1 unit	1AE
	20		<b>5SP3820-3</b>		1	1 unit	1AE
	25		<b>5SP3825-3</b>		1	1 unit	1AE
	35		<b>5SP3835-3</b>		1	1 unit	1AE
	40		<b>5SP3840-3</b>		1	1 unit	1AE
	50		<b>5SP3850-3</b>		1	1 unit	1AE
	63		<b>5SP3863-3</b>		1	1 unit	1AE
<b>Main miniature circuit breakers, 2P</b>							
	16	3	<b>5SP3216-3</b>		1	1 unit	1AE
	20		<b>5SP3220-3</b>		1	1 unit	1AE
	25		<b>5SP3225-3</b>		1	1 unit	1AE
	35		<b>5SP3235-3</b>		1	1 unit	1AE
	40		<b>5SP3240-3</b>		1	1 unit	1AE
	50		<b>5SP3250-3</b>		1	1 unit	1AE
	63		<b>5SP3263-3</b>		1	1 unit	1AE
<b>Main miniature circuit breakers, 3P</b>							
	16	4.5	<b>5SP3316-3</b>		1	1 unit	1AE
	20		<b>5SP3320-3</b>		1	1 unit	1AE
	25		<b>5SP3325-3</b>		1	1 unit	1AE
	35		<b>5SP3335-3</b>		1	1 unit	1AE
	40		<b>5SP3340-3</b>		1	1 unit	1AE
	50		<b>5SP3350-3</b>		1	1 unit	1AE
	63		<b>5SP3363-3</b>		1	1 unit	1AE
<b>Main miniature circuit breakers, 4P</b>							
	16	6	<b>5SP3416-3</b>		1	1 unit	1AE
	20		<b>5SP3420-3</b>		1	1 unit	1AE
	25		<b>5SP3425-3</b>		1	1 unit	1AE
	35		<b>5SP3435-3</b>		1	1 unit	1AE
	40		<b>5SP3440-3</b>		1	1 unit	1AE
	50		<b>5SP3450-3</b>		1	1 unit	1AE
	63		<b>5SP3463-3</b>		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?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</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

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## 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.

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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.

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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.

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<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.

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