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Low-Voltage Power Distribution and Electrical Installation Technology

Miniature Circuit Breakers

Catalog
Extract
LV 10

Edition
04/2019

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Low-Voltage Power Distribution and Electrical Installation Technology LV 10
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 Protection, Switching, Measuring and Monitoring
 Devices, Switchboards and Distribution Systems

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Air Circuit Breakers and Molded Case Circuit Breakers with UL Certification LV 18
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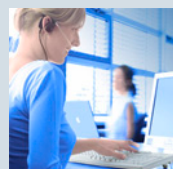


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Low-Voltage Power Distribution and Electrical Installation Technology

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

SENTRON · SIVACON · ALPHA



Catalog LV 10 · 04/2019

You can find the updated catalog valid from October 2019 in the Siemens Industry Online Support under www.siemens.com/lowvoltage/catalogs

Supersedes:
Catalog LV 10 · 10/2018

Refer to the Industry Mall for current prices:
www.siemens.com/industrymall

The products in this catalog can also be found in the Interactive Catalog CA 01:
www.siemens.com/ca01download

Please contact your local Siemens branch.

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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.

Protection, Switching, Measuring and Monitoring Devices	Air Circuit Breakers	1
	Molded Case Circuit Breakers	2
	Miniature Circuit Breakers	3
	Residual Current Protective Devices / Arc-Fault Detection Devices (AFDDs)	4
	Fuse Systems	5
	Overvoltage Protection Devices	6
	Switch Disconnectors	7
	Transfer Switching Equipment and Load Transfer Switches	8
	Switching Devices	9
	Transformers, Power Supply Units and Socket Outlets	10
	Busbar Systems	11
	Measuring Devices and Power Monitoring	12
	Monitoring Devices	13
	Terminal Blocks	14
	Software	15
Switchboards and Distribution Systems	Switchboards	16
	Busbar Trunking Systems	17
	System Cubicles, System Lighting and System Air-Conditioning	18
	Power Distribution Boards / Distribution Boards	19
	Appendix	20

Opening Information

Ordering notes

Overview

Ordering special versions

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

Ordering very small quantities

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

Explanations of Selection and ordering data

Standard delivery time (SD)

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

Price units (PU)

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

Packaging size (PS)

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

Price group (PG)

Each product is allocated to a price group.

Example

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

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

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

SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
►	5TT3400		1	1 unit	1BK
	8US1923-5CA02		1	10 units	1CU
	8WH9000-1GA00		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

A product's export markings/metal surcharges are updated daily at www.siemens.com/industrymall.

Miniature Circuit Breakers



3/2	Introduction
	5SL miniature circuit breakers
3/3	Introduction
3/5	5SL3, 4500 A
3/7	5SL6, 6000 A
3/9	5SL4, 10000 A
	5SY and 5SP miniature circuit breakers
3/13	Introduction
3/15	5SY6, 6000 A
3/17	5SY4, 10000 A
3/22	5SP4, high-current, 10000 A
3/23	5SY5, universal current, 10000 A
3/25	5SY7, 15000 A
3/28	5SY8, 25000 A
3/30	5SJ6... - KS miniature circuit breakers, with plug-in terminals
	5S..0 miniature circuit breakers, 1+N in 1 MW
3/33	Introduction
3/34	5SL30, 4500 A
3/35	5SY60, 6000 A
	5SY17 device protection switches, 1+HS NEW
3/36	Introduction
3/37	5SY17 0.5 A ... 16 A
	Busbars
3/38	5ST3 compact busbars NEW
3/39	5ST busbar system
	Additional components
3/42	Electrical components NEW
3/52	Mechanical components
	Busbars
3/55	5ST standard busbars
3/65	5ST3 busbars acc. to UL 508
3/69	5ST2 distribution blocks
3/73	SIKclip wiring system
3/75	5SJ4... - .HG miniature circuit breakers acc. to UL 489 and IEC, and accessories
3/86	SHU 5SP3 main miniature circuit breakers

For further technical product information:

[Configuration Manual](#)

[Miniature Circuit Breakers](#)

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

Siemens Industry Online Support:

www.siemens.com/lowvoltage/product-support

→ Entry type:

Application example

Certificate

Characteristic

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FAQ

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Product note

Software archive

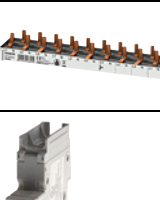
Technical data

Siemens LV 10 · 04/2019

Miniature Circuit Breakers

Introduction

Overview

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

Miniature Circuit Breakers

5SL Miniature Circuit Breakers

Introduction

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 mm². 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.

3

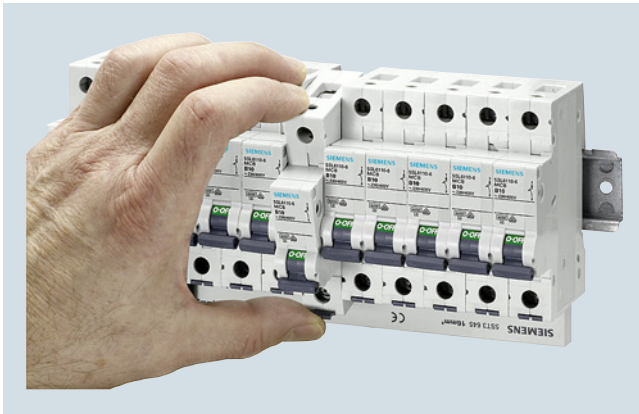
Benefits



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

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

²⁾ Exempt: Characteristic C: 0.3 ... 1 A, characteristic D: 0.3 ... 2 A.

Miniature Circuit Breakers

5SL Miniature Circuit Breakers

5SL3, 4500 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	SD	Characteristic B Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG SD	Characteristic C Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
A				MW ¹⁾	d	d									
Miniature circuit breakers 4500 A															
	1P, 230/400 V AC														
	0.3	1	--								5SL3114-7		1	1 unit	1AE
	0.5		--								5SL3105-7		1	1 unit	1AE
	1		--								5SL3101-7		1	1 unit	1AE
	1.6		--								5SL3115-7		1	1 unit	1AE
	2		--								5SL3102-7		1	1 unit	1AE
	3		--								5SL3103-7		1	1 unit	1AE
	4		--								5SL3104-7		1	1 unit	1AE
	6		5SL3106-6			1	1 unit	1AE			5SL3106-7		1	1 unit	1AE
	8		--								5SL3108-7		1	1 unit	1AE
	10		5SL3110-6			1	1 unit	1AE			5SL3110-7		1	1 unit	1AE
	13		5SL3113-6			1	1 unit	1AE			5SL3113-7		1	1 unit	1AE
	16		5SL3116-6			1	1 unit	1AE			5SL3116-7		1	1 unit	1AE
	20		5SL3120-6			1	1 unit	1AE			5SL3120-7		1	1 unit	1AE
	25		5SL3125-6			1	1 unit	1AE			5SL3125-7		1	1 unit	1AE
	32		5SL3132-6			1	1 unit	1AE			5SL3132-7		1	1 unit	1AE
40		5SL3140-6			1	1 unit	1AE			5SL3140-7		1	1 unit	1AE	
50		5SL3150-6			1	1 unit	1AE			5SL3150-7		1	1 unit	1AE	
63		5SL3163-6			1	1 unit	1AE			5SL3163-7		1	1 unit	1AE	
	1P+N, 230 V AC														
	0.3	2	--								5SL3514-7		1	1 unit	1AE
	0.5		--								5SL3505-7		1	1 unit	1AE
	1		--								5SL3501-7		1	1 unit	1AE
	1.6		--								5SL3515-7		1	1 unit	1AE
	2		--								5SL3502-7		1	1 unit	1AE
	3		--								5SL3503-7		1	1 unit	1AE
	4		--								5SL3504-7		1	1 unit	1AE
	6		5SL3506-6			1	1 unit	1AE			5SL3506-7		1	1 unit	1AE
	8		--								5SL3508-7		1	1 unit	1AE
	10		5SL3510-6			1	1 unit	1AE			5SL3510-7		1	1 unit	1AE
	13		5SL3513-6			1	1 unit	1AE			5SL3513-7		1	1 unit	1AE
	16		5SL3516-6			1	1 unit	1AE			5SL3516-7		1	1 unit	1AE
	20		5SL3520-6			1	1 unit	1AE			5SL3520-7		1	1 unit	1AE
	25		5SL3525-6			1	1 unit	1AE			5SL3525-7		1	1 unit	1AE
	32		5SL3532-6			1	1 unit	1AE			5SL3532-7		1	1 unit	1AE
40		5SL3540-6			1	1 unit	1AE			5SL3540-7		1	1 unit	1AE	
50		5SL3550-6			1	1 unit	1AE			5SL3550-7		1	1 unit	1AE	
63		5SL3563-6			1	1 unit	1AE			5SL3563-7		1	1 unit	1AE	
	2P, 400 V AC														
	0.3	2	--								5SL3214-7		1	1 unit	1AE
	0.5		--								5SL3205-7		1	1 unit	1AE
	1		--								5SL3201-7		1	1 unit	1AE
	1.6		--								5SL3215-7		1	1 unit	1AE
	2		--								5SL3202-7		1	1 unit	1AE
	3		--								5SL3203-7		1	1 unit	1AE
	4		--								5SL3204-7		1	1 unit	1AE
	6		5SL3206-6			1	1 unit	1AE			5SL3206-7		1	1 unit	1AE
	8		--								5SL3208-7		1	1 unit	1AE
	10		5SL3210-6			1	1 unit	1AE			5SL3210-7		1	1 unit	1AE
	13		5SL3213-6			1	1 unit	1AE			5SL3213-7		1	1 unit	1AE
	16		5SL3216-6			1	1 unit	1AE			5SL3216-7		1	1 unit	1AE
	20		5SL3220-6			1	1 unit	1AE			5SL3220-7		1	1 unit	1AE
	25		5SL3225-6			1	1 unit	1AE			5SL3225-7		1	1 unit	1AE
	32		5SL3232-6			1	1 unit	1AE			5SL3232-7		1	1 unit	1AE
	40		5SL3240-6			1	1 unit	1AE			5SL3240-7		1	1 unit	1AE
	50		5SL3250-6			1	1 unit	1AE			5SL3250-7		1	1 unit	1AE
	63		5SL3263-6			1	1 unit	1AE			5SL3263-7		1	1 unit	1AE

¹⁾ 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. www.siemens.com/ product?Article No.				Price per PU	PU (UNIT, SET, M)	PS	PG SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS
Miniature circuit breakers 4500 A													
	3P, 400 V AC												
	1	3	--										
	2		--										
	3		--										
	4		--										
	6		5SL3306-6		1	1 unit	1AE			1	1 unit	1AE	
	10		5SL3310-6		1	1 unit	1AE			1	1 unit	1AE	
	16		5SL3316-6		1	1 unit	1AE			1	1 unit	1AE	
	20		5SL3320-6		1	1 unit	1AE			1	1 unit	1AE	
	25		5SL3325-6		1	1 unit	1AE			1	1 unit	1AE	
	32		5SL3332-6		1	1 unit	1AE			1	1 unit	1AE	
	40		5SL3340-6		1	1 unit	1AE			1	1 unit	1AE	
	50		5SL3350-6		1	1 unit	1AE			1	1 unit	1AE	
	63		5SL3363-6		1	1 unit	1AE			1	1 unit	1AE	
	3P+N, 400 V AC												
	1	4	--										
	2		--										
	3		--										
	4		--										
	6		5SL3606-6		1	1 unit	1AE			1	1 unit	1AE	
	8		--										
	10		5SL3610-6		1	1 unit	1AE			1	1 unit	1AE	
	13		5SL3613-6		1	1 unit	1AE			1	1 unit	1AE	
	16		5SL3616-6		1	1 unit	1AE			1	1 unit	1AE	
	20		5SL3620-6		1	1 unit	1AE			1	1 unit	1AE	
	25		5SL3625-6		1	1 unit	1AE			1	1 unit	1AE	
	32		5SL3632-6		1	1 unit	1AE			1	1 unit	1AE	
	40		5SL3640-6		1	1 unit	1AE			1	1 unit	1AE	
	50		5SL3650-6		1	1 unit	1AE			1	1 unit	1AE	
	63		5SL3663-6		1	1 unit	1AE			1	1 unit	1AE	
	4P, 400 V AC												
	1	4	--										
	2		--										
	3		--										
	4		--										
	6		--										
	10		--										
	13		--										
	16		--										
	20		--										
	25		--										
	32		--										
	40		--										
	50		--										
	63		--										

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

5SL Miniature Circuit Breakers

5SL6, 6000 A

Selection and ordering data

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

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

5SL Miniature Circuit Breakers

5SL6, 6000 A

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

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

Miniature Circuit Breakers

5SL Miniature Circuit Breakers

5SL4, 10000 A

Selection and ordering data

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

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

Miniature Circuit Breakers

5SL Miniature Circuit Breakers

5SL4, 10000 A

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

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

5SL Miniature Circuit Breakers

5SL4, 10000 A

10000 3		D V E	I_n	Mounting width	SD	Characteristic D Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
A				MW ¹⁾	d					
Miniature circuit breakers 10000 A										
	1P, 230/400 V AC									
	0.3	1	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						
	1P+N, 230 V AC									
	0.3	2	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						
	2P, 400 V AC									
	0.3	2	5SL4214-8	1	1 unit	1AA				
	0.5	5SL4205-8	1	1 unit	1AA					
	1	5SL4201-8	1	1 unit	1AA					
	1.6	5SL4215-8	1	1 unit	1AA					
	2	5SL4202-8	1	1 unit	1AA					
	3	5SL4203-8	1	1 unit	1AA					
	4	5SL4204-8	1	1 unit	1AA					
	6	5SL4206-8	1	1 unit	1AA					
	8	5SL4208-8	1	1 unit	1AA					
	10	5SL4210-8	1	1 unit	1AA					
	13	5SL4213-8	1	1 unit	1AA					
	16	5SL4216-8	1	1 unit	1AA					
	20	5SL4220-8	1	1 unit	1AA					
	25	5SL4225-8	1	1 unit	1AA					
	32	5SL4232-8	1	1 unit	1AA					
40	5SL4240-8	1	1 unit	1AA						
50	5SL4250-8	1	1 unit	1AA						
63	5SL4263-8	1	1 unit	1AA						

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

5SL Miniature Circuit Breakers

5SL4, 10000 A

10000 3 V D E	I_n	Mounting width	SD	Characteristic D Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG				
	A	MW ¹⁾	d									
Miniature circuit breakers 10000 A												
	3P, 400 V AC	3										
	0.3								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								
	3P+N, 400 V AC	4										
	0.3								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								
	4P, 400 V AC	4										
	0.3								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								

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

5SY and 5SP Miniature Circuit Breakers

Introduction

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.

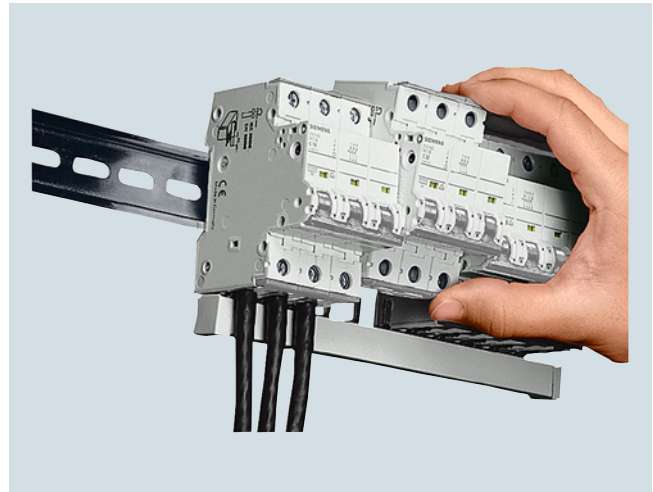
For North America, there is an additional approval according to UL 1077 for use as "supplementary protectors" in systems up to 480/277 V AC. For use in ship building, the devices also have numerous certifications according to shipping classifications BV, DNV, GL and LRS. For information on this, see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

3

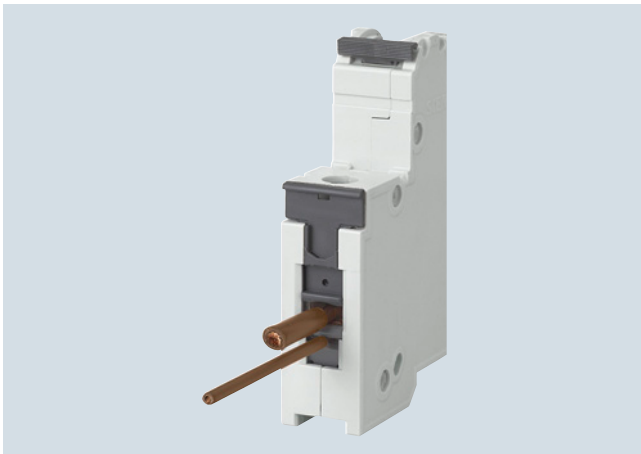
Benefits



- 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
Standards		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
Approvals		see chapter "Appendix"					
Rated voltage U_n	V AC V DC	230/400 --	230/400 --	230/400 --	230/400 --	230/400 220/440/ 880 ⁵⁾	230/400 --
Operational voltage							
	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 ⁴⁾	72 ⁴⁾	72 ⁴⁾	72 ⁴⁾	250	72
	Max. V AC	250/440	250/440	250/440	250/440	250/440	250/440
Breaking capacity¹⁾							
• 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 ¹⁾ 15	35 ... 10 ¹⁾ 15	50 ... 15 ¹⁾ 15	70 ... 20 ¹⁾ 15	35 ... 10 ¹⁾ 15	10 15
Acc. to UL 1077 and CSA C22.2 No. 235	SC	supplementary protector, OC, FW 0, OL 0, TC 3 at 50 °C U2: see Certificate of Compliance					
Insulation coordination							
• Rated insulation voltage	V AC V DC/pole	250/440 --	--	--	--	250	--
• Rated impulse withstand voltage U_{imp}	kV AC	4	--	--	--	--	--
Pollution degree for overvoltage category		3/III ³⁾					
Rated frequency	Hz	50/60					
Touch protection	Acc. to EN 50274	Yes					
Handle end position, sealable		Yes					
Degree of protection	Acc. to EN 60529	IP20 with connected conductors, IP40 in the area of the handle with distribution cover					
CFC and silicone-free		Yes					
Mounting							
• Snap-on fixing system		Yes					
• Standard mounting rail and screw fixing		--					
Terminals	± 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					
Conductor cross-sections							
• Solid and stranded	mm ²	0.75 ... 35					
• Finely stranded, with end sleeve	mm ²	0.75 ... 25					
• AWG conductors (Cu 60/75 °C $I_n \leq 40$ A; 60 °C $I_n > 40$ A)	AWG	14 ... 4					
Mains connection							
• AC		Any					
• DC		Any					
Mounting position		Any					
Service life		20000					
On average, with rated load	Actuations Actuations	10000, for 5SY5 at 40 A, 50 A and 63 A					
Ambient temperature	°C	-25 ... +55, max. 95 % humidity -40 ... +70 for 5SY4, 5SY5 and 5SY7, 95 % humidity up to 55 °C					
Storage temperature	°C	-40 ... +75, 95 % humidity up to 55 °C					
Resistance to climate	Acc. to IEC 60068-2-30	6 cycles					
Shock	Acc. to IEC 60068-2-27	m/s ² 150 at 11 ms half-sine					
Resistance to vibrations	Acc. to IEC 60068-2-6	m/s ² 50 at 25 ... 150 Hz and 60 at 35 Hz (4 s)					

¹⁾ For detailed information, see Configuration Manual "Miniature Circuit Breakers" (www.siemens.com/lowvoltage/manuals).

²⁾ Ensure compliance with the specified polarity when connecting DC.

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

⁴⁾ Exempt: C/D 0.3 A ... 0.5 A

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

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

Miniature Circuit Breakers

5SY and 5SP Miniature Circuit Breakers

5SY6, 6000 A

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

¹⁾ 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					
		A	MW ¹⁾	d	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
Miniature circuit breakers 10000 A															
	1P, 230/400 V AC														
	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	
	1P+N, 230 V AC														
	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	
	2P, 400 V AC														
	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 DVE	I_n	Mounting width	SD	Characteristic A Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Characteristic B Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
A	MW ¹⁾	d							d					
Miniature circuit breakers 10000 A														
	3P, 400 V AC													
	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	
	3P+N, 400 V AC													
	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	
	4P, 400 V AC													
	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

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 C Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Characteristic D Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	
A										MW ¹⁾		d				
Miniature circuit breakers 10000 A																
	1P, 230/400 V AC															
	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		--						
	1P+N, 230 V AC															
	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		--					

Miniature Circuit Breakers

5SY and 5SP Miniature Circuit Breakers

5SY4, 10000 A

10000 3		I_n	Mounting width	SD	Characteristic C	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Characteristic D	Price per PU	PU (UNIT, SET, M)	PS	PG
		A	MW ¹⁾	d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.				
	2P, 400 V AC														
	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 10000 A

	3P, 400 V AC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

5SY and 5SP Miniature Circuit Breakers

5SY4, 10000 A

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

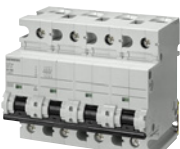
¹⁾ 1 MW (modular width) = 18 mm.

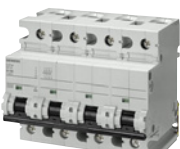
Miniature Circuit Breakers

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 ¹⁾	d	Article No. www.siemens.com/ product?Article No.				
Miniature circuit breakers 10000 A, high-current									
	1P, 230/400 V AC								
	80	1.5			5SP4180-6		1	1 unit	1AB
	100				5SP4191-6		1	1 unit	1AB
	125				5SP4192-6		1	1 unit	1AB
	2P, 400 V AC								
	80	3			5SP4280-6		1	1 unit	1AB
	100				5SP4291-6		1	1 unit	1AB
	125				5SP4292-6		1	1 unit	1AB
	3P, 400 V AC								
	80	4.5			5SP4380-6		1	1 unit	1AB
	100				5SP4391-6		1	1 unit	1AB
	125				5SP4392-6		1	1 unit	1AB
	4P, 400 V AC								
	80	6			5SP4480-6		1	1 unit	1AB
	100				5SP4491-6		1	1 unit	1AB
	125				5SP4492-6		1	1 unit	1AB

10000		I_n	Mounting width	SD	Characteristic C	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Characteristic D	Price per PU	PU (UNIT, SET, M)	PS	PG
A			MW ¹⁾	d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.				
Miniature circuit breakers 10000 A, high-current															
	1P, 230/400 V AC														
	80	1.5			5SP4180-7		1	1 unit	1AC		5SP4180-8		1	1 unit	1AA
	100				5SP4191-7		1	1 unit	1AC		5SP4191-8		1	1 unit	1AA
	125				5SP4192-7		1	1 unit	1AC		--				
	2P, 400 V AC														
	80	3			5SP4280-7		1	1 unit	1AC		5SP4280-8		1	1 unit	1AA
	100				5SP4291-7		1	1 unit	1AC		5SP4291-8		1	1 unit	1AA
	125				5SP4292-7		1	1 unit	1AC		--				
	3P, 400 V AC														
	80	4.5			5SP4380-7		1	1 unit	1AC		5SP4380-8		1	1 unit	1AA
	100				5SP4391-7		1	1 unit	1AC		5SP4391-8		1	1 unit	1AA
	125				5SP4392-7		1	1 unit	1AC		--				
	4P, 400 V AC														
	80	6			5SP4480-7		1	1 unit	1AC		5SP4480-8		1	1 unit	1AA
	100				5SP4491-7		1	1 unit	1AC		5SP4491-8		1	1 unit	1AA
	125				5SP4492-7		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 	I_n	Mounting width	SD	Characteristic B					SD	Characteristic C				
				Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG		Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	MW ¹⁾	d						d					
Miniature circuit breakers 10000 A, universal current														
	1P, 230/400 V AC, 220 V DC													
	0.3	1		--						5SY5114-7		1	1 unit	1AC
	0.5			--						5SY5105-7		1	1 unit	1AC
	1			--						5SY5101-7		1	1 unit	1AC
	1.6			--						5SY5115-7		1	1 unit	1AC
	2			5SY5102-6		1	1 unit	1AB		5SY5102-7		1	1 unit	1AC
	3			--						5SY5103-7		1	1 unit	1AC
	4			5SY5104-6		1	1 unit	1AB		5SY5104-7		1	1 unit	1AC
	6			5SY5106-6		1	1 unit	1AB		5SY5106-7		1	1 unit	1AC
	8			--						5SY5108-7		1	1 unit	1AC
	10			5SY5110-6		1	1 unit	1AB		5SY5110-7		1	1 unit	1AC
	13			5SY5113-6		1	1 unit	1AB		5SY5113-7		1	1 unit	1AC
	16			5SY5116-6		1	1 unit	1AB		5SY5116-7		1	1 unit	1AC
	20			5SY5120-6		1	1 unit	1AB		5SY5120-7		1	1 unit	1AC
	25			5SY5125-6		1	1 unit	1AB		5SY5125-7		1	1 unit	1AC
	32			5SY5132-6		1	1 unit	1AB		5SY5132-7		1	1 unit	1AC
	40			5SY5140-6		1	1 unit	1AB		5SY5140-7		1	1 unit	1AC
	50			5SY5150-6		1	1 unit	1AB		5SY5150-7		1	1 unit	1AC
	63			5SY5163-6		1	1 unit	1AB		5SY5163-7		1	1 unit	1AC
	2P, 400 V AC, 440 V DC													
	0.3	2		--						5SY5214-7		1	1 unit	1AC
	0.5			--						5SY5205-7		1	1 unit	1AC
	1			--						5SY5201-7		1	1 unit	1AC
	1.6			--						5SY5215-7		1	1 unit	1AC
	2			--						5SY5202-7		1	1 unit	1AC
	3			--						5SY5203-7		1	1 unit	1AC
	4			--						5SY5204-7		1	1 unit	1AC
	6			5SY5206-6		1	1 unit	1AB ▶		5SY5206-7		1	1 unit	1AC
	8			--						5SY5208-7		1	1 unit	1AC
	10			5SY5210-6		1	1 unit	1AB		5SY5210-7		1	1 unit	1AC
	13			5SY5213-6		1	1 unit	1AB		5SY5213-7		1	1 unit	1AC
	16			5SY5216-6		1	1 unit	1AB		5SY5216-7		1	1 unit	1AC
	20			5SY5220-6		1	1 unit	1AB		5SY5220-7		1	1 unit	1AC
	25			5SY5225-6		1	1 unit	1AB		5SY5225-7		1	1 unit	1AC
	32			5SY5232-6		1	1 unit	1AB		5SY5232-7		1	1 unit	1AC
	40			5SY5240-6		1	1 unit	1AB		5SY5240-7		1	1 unit	1AC
	50			5SY5250-6		1	1 unit	1AB		5SY5250-7		1	1 unit	1AC
	63			5SY5263-6		1	1 unit	1AB		5SY5263-7		1	1 unit	1AC

¹⁾ 1 MW (modular width) = 18 mm.

For application examples, see Configuration Manual "Miniature Circuit Breakers" (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	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Characteristic C	Price per PU	PU (UNIT, SET, M)	PS	PG	
		A	MW ¹⁾	d	Article No. www.siemens.com/ product?Article No.					d	Article No. www.siemens.com/ product?Article No.					
Miniature circuit breakers 10000 A, universal current																
	4P, 400 V AC, 880 V DC (max. 1000 V DC)															
	0.3	1	--									5SY5414-7	1	1 unit	1AC	
	0.5	--									5SY5405-7	1	1 unit	1AC		
	1	--									5SY5401-7	1	1 unit	1AC		
	1.6	--									5SY5415-7	1	1 unit	1AC		
	2	--									5SY5402-7	1	1 unit	1AC		
	3	--									5SY5403-7	1	1 unit	1AC		
	4	--									5SY5404-7	1	1 unit	1AC		
	6	5SY5406-6	1	1 unit	1AB	5SY5406-7	1	1 unit	1AC							
	8	--									5SY5408-7	1	1 unit	1AC		
	10	5SY5410-6	1	1 unit	1AB	5SY5410-7	1	1 unit	1AC							
	13	5SY5413-6	1	1 unit	1AB	5SY5413-7	1	1 unit	1AC							
	16	5SY5416-6	1	1 unit	1AB	5SY5416-7	1	1 unit	1AC							
	20	5SY5420-6	1	1 unit	1AB	5SY5420-7	1	1 unit	1AC							
	25	5SY5425-6	1	1 unit	1AB	5SY5425-7	1	1 unit	1AC							
	32	5SY5432-6	1	1 unit	1AB	5SY5432-7	1	1 unit	1AC							
	40	5SY5440-6	1	1 unit	1AB	5SY5440-7	1	1 unit	1AC							
	50	5SY5450-6	1	1 unit	1AB	5SY5450-7	1	1 unit	1AC							
	63	5SY5463-6	1	1 unit	1AB	5SY5463-7	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 3/55](#).

For application examples, [see Configuration Manual "Miniature Circuit Breakers"](#) (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 Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		A	MW ¹⁾	d					
Miniature circuit breakers 15000 A									
	1P, 230/400 V AC		1						
	6								
	10								
	13								
	16								
	20								
	25								
	32								
	40								
	50								
	63								
	1P+N, 230 V AC		2						
	6								
	10								
	13								
	16								
	20								
	25								
	32								
	40								
	50								
	63								
	2P, 400 V AC		2						
	6								
	10								
	13								
	16								
	20								
	25								
	32								
	40								
	50								
	63								
	3P, 400 V AC		3						
	6								
	10								
	13								
	16								
	20								
	25								
	32								
	40								
	50								
	63								
	3P+N, 400 V AC		4						
	6								
	10								
	13								
	16								
	20								
	25								
	32								
	40								
	50								
	63								
	4P, 400 V AC		4						
	6								
	10								
	13								
	16								
	20								
	25								
	32								
	40								
	50								
	63								

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				Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Characteristic D				Price per PU	PU (UNIT, SET, M)	PS	PG	
		A	MW ¹⁾	d	Article No. www.siemens.com/product?Article No.								d	Article No. www.siemens.com/product?Article No.								
Miniature circuit breakers 15000 A																						
	1P, 230/400 V AC																					
		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				
	1P+N, 230 V AC																					
		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				
	2P, 400 V AC																					
		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. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		A	MW ¹⁾	d						d					
Miniature circuit breakers 15000 A															
	3P, 400 V AC														
	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	
	3P+N, 400 V AC														
	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	
	4P, 400 V AC														
	0.3	4		5SY7414-7		1	1 unit	1AC		5SY7414-8		1	1 unit	1AA	
	0.5			5SY7405-7		1	1 unit	1AC		5SY7405-8		1	1 unit	1AA	
	1			5SY7401-7		1	1 unit	1AC		5SY7401-8		1	1 unit	1AA	
	1.6			5SY7415-7		1	1 unit	1AC		5SY7415-8		1	1 unit	1AA	
	2			5SY7402-7		1	1 unit	1AC		5SY7402-8		1	1 unit	1AA	
	3			5SY7403-7		1	1 unit	1AC		5SY7403-8		1	1 unit	1AA	
	4			5SY7404-7		1	1 unit	1AC		5SY7404-8		1	1 unit	1AA	
	6			5SY7406-7		1	1 unit	1AC		5SY7406-8		1	1 unit	1AA	
	8			5SY7408-7		1	1 unit	1AC		5SY7408-8		1	1 unit	1AA	
	10			5SY7410-7		1	1 unit	1AC		5SY7410-8		1	1 unit	1AA	
	13			5SY7413-7		1	1 unit	1AC		5SY7413-8		1	1 unit	1AA	
	16			5SY7416-7		1	1 unit	1AC		5SY7416-8		1	1 unit	1AA	
	20			5SY7420-7		1	1 unit	1AC		5SY7420-8		1	1 unit	1AA	
	25			5SY7425-7		1	1 unit	1AC		5SY7425-8		1	1 unit	1AA	
	32			5SY7432-7		1	1 unit	1AC		5SY7432-8		1	1 unit	1AA	
	40			5SY7440-7		1	1 unit	1AC		5SY7440-8		1	1 unit	1AA	
	50			5SY7450-7		1	1 unit	1AC		5SY7450-8		1	1 unit	1AA	
	63			5SY7463-7		1	1 unit	1AC		5SY7463-8		1	1 unit	1AA	

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

5SY and 5SP Miniature Circuit Breakers

5SY8, 25000 A

Selection and ordering data

			Characteristic C				Characteristic D						
I_n	Mounting width	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
A	MW ¹⁾	d						d					
Miniature circuit breakers 25000 A													
	1P, 230/400 V AC												
	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	
	1P+N, 230 V AC												
	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	
	2P, 400 V AC												
	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				PU (UNIT, SET, M)	PS	PG	SD	Characteristic D			
			Article No. www.siemens.com/ product?Article No.	Price per PU							Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS
A	MW ¹⁾	d								d				
Miniature circuit breakers 25000 A														
	3P, 400 V AC													
	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	
	3P+N, 400 V AC													
	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	
	4P, 400 V AC													
	0.3	4	5SY8414-7		1	1 unit	1AC			5SY8414-8		1	1 unit	1AA
	0.5		5SY8405-7		1	1 unit	1AC			5SY8405-8		1	1 unit	1AA
	1		5SY8401-7		1	1 unit	1AC			5SY8401-8		1	1 unit	1AA
	1.6		5SY8415-7		1	1 unit	1AC			5SY8415-8		1	1 unit	1AA
	2		5SY8402-7		1	1 unit	1AC			5SY8402-8		1	1 unit	1AA
	3		5SY8403-7		1	1 unit	1AC			5SY8403-8		1	1 unit	1AA
	4		5SY8404-7		1	1 unit	1AC			5SY8404-8		1	1 unit	1AA
	6		5SY8406-7		1	1 unit	1AC			5SY8406-8		1	1 unit	1AA
	8		5SY8408-7		1	1 unit	1AC			5SY8408-8		1	1 unit	1AA
	10		5SY8410-7		1	1 unit	1AC			5SY8410-8		1	1 unit	1AA
	13		5SY8413-7		1	1 unit	1AC			5SY8413-8		1	1 unit	1AA
	16		5SY8416-7		1	1 unit	1AC			5SY8416-8		1	1 unit	1AA
	20		5SY8420-7		1	1 unit	1AC			5SY8420-8		1	1 unit	1AA
	25		5SY8425-7		1	1 unit	1AC			5SY8425-8		1	1 unit	1AA
	32		5SY8432-7		1	1 unit	1AC			5SY8432-8		1	1 unit	1AA
	40		5SY8440-7		1	1 unit	1AC			5SY8440-8		1	1 unit	1AA
	50		5SY8450-7		1	1 unit	1AC			5SY8450-8		1	1 unit	1AA
63		5SY8463-7		1	1 unit	1AC			5SY8463-8		1	1 unit	1AA	

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

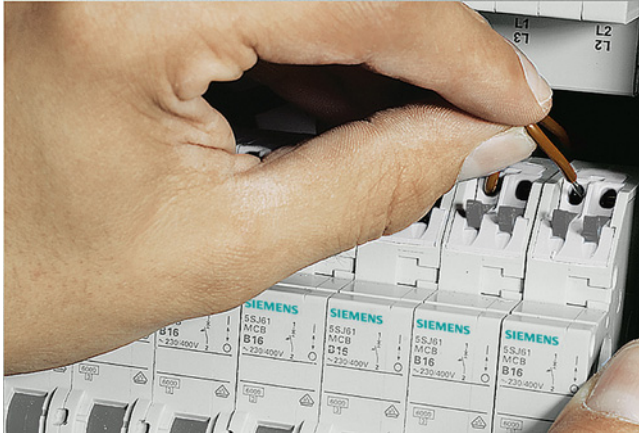
Miniature Circuit Breakers

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

Overview

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

Benefits



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



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

Technical specifications

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

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

Miniature Circuit Breakers

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

Selection and ordering data

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

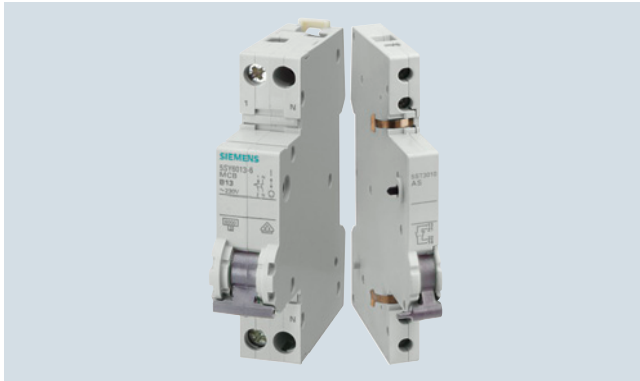
¹⁾ 1 MW (modular width) = 18 mm.

Overview

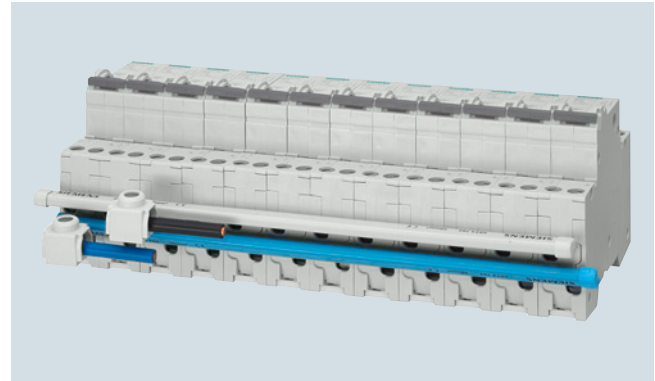
These miniature circuit breakers are used for the protection of systems and installations with switched neutral conductors in distribution boards with little space. They are just a single modular width.

Compact busbars facilitate installation in space-saving distribution boards.

Benefits



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



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

Technical specifications

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

¹⁾ Not for Belgium

Miniature Circuit Breakers

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

5SL30, 4500 A **NEW**

Selection and ordering data

4 500 3 	I_n	Mounting width	SD	Characteristic C Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	MW ¹⁾	d					
Miniature circuit breakers 4500 A								
	1P+N, 230 V AC							
	N connection, right							
	2	1		5SL3002-7		1	1 unit	1AE
	4			5SL3004-7		1	1 unit	1AE
	6			5SL3006-7		1	1 unit	1AE
	8			5SL3008-7		1	1 unit	1AE
	10			5SL3010-7		1	1 unit	1AE
	13			5SL3013-7		1	1 unit	1AE
	16			5SL3016-7		1	1 unit	1AE
	20			5SL3020-7		1	1 unit	1AE
	25			5SL3025-7		1	1 unit	1AE
	32			5SL3032-7		1	1 unit	1AE
	40			5SL3040-7		1	1 unit	1AE
	N connection, left							
	2	1		5SL3002-7KL		1	1 unit	1AE
	4			5SL3004-7KL		1	1 unit	1AE
	6			5SL3006-7KL		1	1 unit	1AE
	8			5SL3008-7KL		1	1 unit	1AE
	10			5SL3010-7KL		1	1 unit	1AE
	13			5SL3013-7KL		1	1 unit	1AE
	16			5SL3016-7KL		1	1 unit	1AE
	20			5SL3020-7KL		1	1 unit	1AE
	25			5SL3025-7KL		1	1 unit	1AE
	32			5SL3032-7KL		1	1 unit	1AE
	40			5SL3040-7KL		1	1 unit	1AE

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

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

5SY60, 6000 A

Selection and ordering data

6000 3 	I_n	Mounting width	SD	Characteristic B					SD	Characteristic C				
				Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG		Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	MW ¹⁾	d						d					
Miniature circuit breakers, compact, 1+N (1P+N), 230 V AC²⁾														
	N pole, right													
	2	1		--						5SY6002-7		1	1 unit	1AC
	4			--						5SY6004-7		1	1 unit	1AC
	6			5SY6006-6		1	1 unit	1AB		5SY6006-7		1	1 unit	1AC
	8			--						5SY6008-7		1	1 unit	1AC
	10			5SY6010-6		1	1 unit	1AB		5SY6010-7		1	1 unit	1AC
	13			5SY6013-6		1	1 unit	1AB		5SY6013-7		1	1 unit	1AC
	16			5SY6016-6		1	1 unit	1AB		5SY6016-7		1	1 unit	1AC
	20			5SY6020-6		1	1 unit	1AB		5SY6020-7		1	1 unit	1AC
	25			5SY6025-6		1	1 unit	1AB		5SY6025-7		1	1 unit	1AC
	32			5SY6032-6		1	1 unit	1AB		5SY6032-7		1	1 unit	1AC
	40			5SY6040-6		1	1 unit	1AB		5SY6040-7		1	1 unit	1AC
	N pole, left													
	2	1		--						5SY6002-7KL		1	1 unit	1AC
	4			--						5SY6004-7KL		1	1 unit	1AC
	6			--						5SY6006-7KL		1	1 unit	1AC
	8			--						5SY6008-7KL		1	1 unit	1AC
	10			--						5SY6010-7KL		1	1 unit	1AC
	13			--						5SY6013-7KL		1	1 unit	1AC
	16			--						5SY6016-7KL		1	1 unit	1AC
	20			--						5SY6020-7KL		1	1 unit	1AC
	25			--						5SY6025-7KL		1	1 unit	1AC
	32			--						5SY6032-7KL		1	1 unit	1AC
	40			--						5SY6040-7KL		1	1 unit	1AC

¹⁾ 1 MW (modular width) = 18 mm.

²⁾ Not for Belgium

Miniature Circuit Breakers

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

Introduction

Overview

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

Benefits



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

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

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

Technical specifications

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

Miniature Circuit Breakers

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

5SY17 0.5 A ... 16 A

Selection and ordering data

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

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

Busbars

5ST busbar system

NEW
Pin
spacing

SD

Article No.
[www.siemens.com/
product?ArticleNo.](http://www.siemens.com/product?ArticleNo.)Price
per PUPU
(UNIT,
SET,
M)

PS

PG

MW¹⁾

d

5ST3 busbar system, 10 mm²,



5ST3 busbars for infeed via RCCB

For 1 x RCCB 1P+N and 5 x compact devices equipped with 5SM6 arc fault detection device

- 2-phase, 10 mm²

12 MW

5ST3685-0

1

1 unit

1AD

For 1 x RCCB 3P+N and 8 x compact devices

- 4-phase, 10 mm², can be cut

12 MW

5ST3783-0

1

1 unit

1AD

- 4-phase, 10 mm² (only RCCB N left), can be cut

12 MW

5ST3783-0KL

1

1 unit

1AD

For 1 x RCCB 1P+N and 10 x compact devices

- 2-phase, 10 mm², can be cut

12 MW

5ST3784-0

1

1 unit

1AD

- 2-phase, 10 mm² (only RCCB N left), can be cut

12 MW

5ST3784-0KL

1

1 unit

1AD



5ST3 busbars

For 12 compact devices

- 4-phase, 10 mm²

12 MW

5ST3673-0

1

1 unit

1AD

For compact devices

- 4-phase, 10 mm², can be cut

1000 mm

5ST3773-0

1

1 unit

1AD

For 12 compact devices

- 2-phase, 10 mm²

12 MW

5ST3674-0

1

1 unit

1AD

For compact devices

- 2-phase, 10 mm², can be cut

1000 mm

5ST3774-0

1

1 unit

1AD

For 6 compact devices equipped with 5SM6 arc fault detection device

- 4-phase, 10 mm²

12 MW

5ST3675-0

1

1 unit

1AD

For compact devices equipped with 5SM6 arc fault detection device

- 4-phase, 10 mm², can be cut

1000 mm

5ST3775-0

1

1 unit

1AD

For 6 compact devices equipped with 5SM6 arc fault detection device

- 2-phase, 10 mm²

12 MW

5ST3676-0

1

1 unit

1AD

For compact devices equipped with 5SM6 arc fault detection device

- 2-phase, 10 mm², can be cut

1000 mm

5ST3776-0

1

1 unit

1AD

For compact devices equipped with auxiliary switch

- 4-phase, 10 mm², can be cut

1000 mm

5ST3777-0

1

1 unit

1AD

For compact devices equipped with auxiliary switch

- 2-phase, 10 mm², can be cut

1000 mm

5ST3778-0

1

1 unit

1AD

For compact devices equipped with 5SM6 arc fault detection device and auxiliary switch

- 2-phase, 10 mm², can be cut

1000 mm

5ST3780-0

1

1 unit

1AD

End caps for 5ST37

- For 2-phase and 4-phase busbars

5ST3788-0

1

10 units

1AD



Touch protection

- For free connections, for pins L1, N, yellow
- For pins L2 / L3, yellow

5ST3655

1

10 units

1AD

5ST3655-0HG

1

10 units

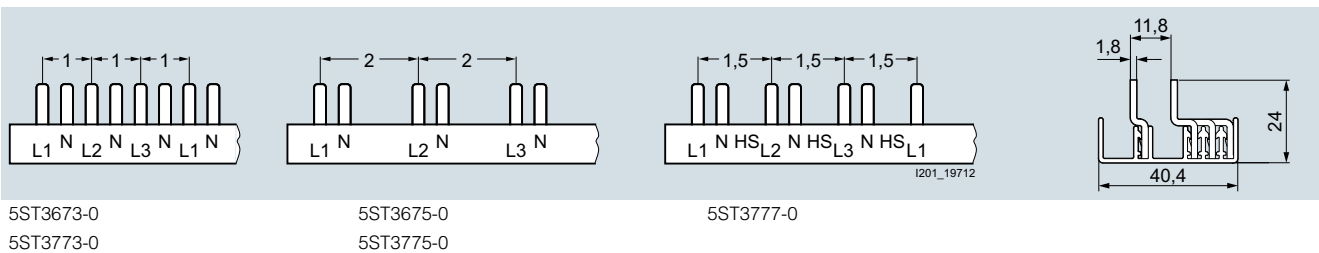
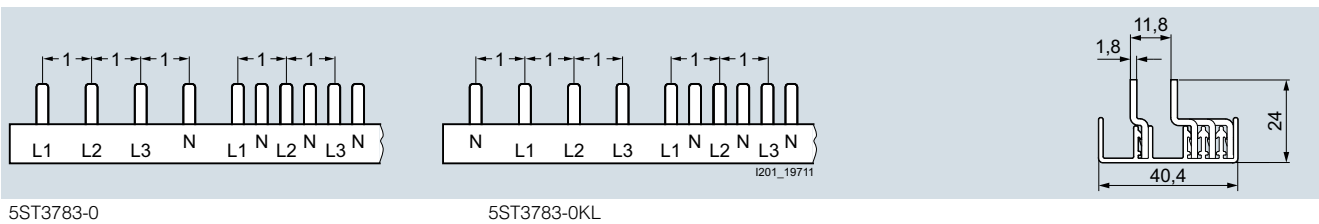
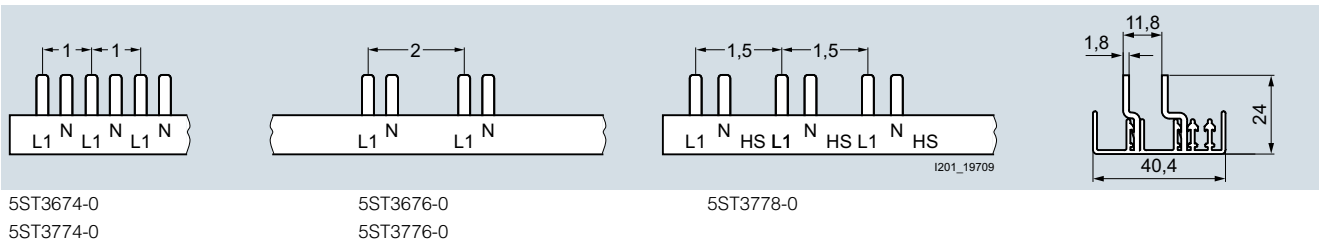
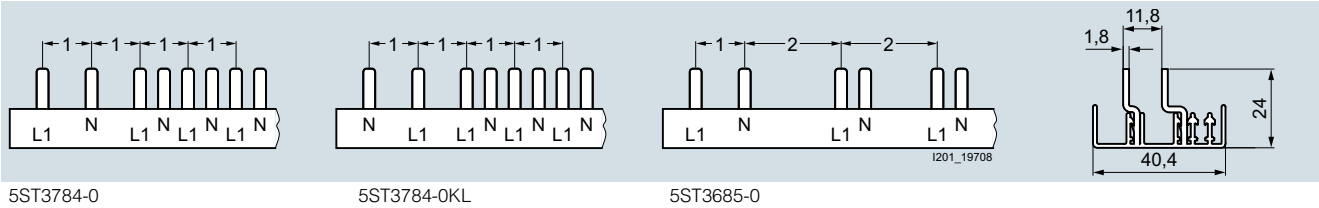
1AE



¹⁾ 1 MW (modular width) = 18 mm.

Dimensional drawings
5ST36 / 5ST37
Pin spacing in MW (modular width; 1 MW = 18 mm)

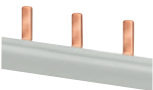
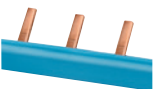
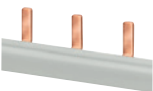
Dimensions of side view in mm (approx.)



Miniature Circuit Breakers

Busbars

5ST busbar system

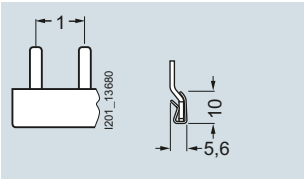
	Pin spacing	Length	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW ¹⁾	mm	d					
5ST37 busbar system, 10 mm ² , for 1+N miniature circuit breakers in 1 MW of the compact range, can be cut, with end caps								
   	Single-phase, 12 MW							
	For 12 MCBs 1+N, gray	1	216	5ST3762		1	10 units	1AD
	For 12 MCBs 1+N, blue		216	5ST3763		1	10 units	1AD
	Single-phase							
	For MCBs 1+N, gray	1	1016	5ST3764		1	10 units	1AD
	For MCBs 1+N, blue		1016	5ST3765		1	10 units	1AD
Terminals								
	Terminals, short							
	• For conductors up to 25 mm² • Infeed on side • Specially for single-phase busbars and for 5ST3615-1 three-phase busbars			5ST3768		1	25 units	1AD
	Terminals, short, IP20							
	• For conductors up to 25 mm² • Infeed on side • Specially for single-phase busbars and for 5ST3615-1 three-phase busbars			5ST3771-2		1	10 units	1AD
End caps for 5ST376 busbars								
 	1 set comprises a right and a left cap							
	Gray			5ST3766		1	10 sets	1AD
	Blue			5ST3767		1	10 sets	1AD
5ST36 busbar systems, 10 mm ² , for miniature circuit breakers, fixed lengths, cannot be cut, fully insulated								
	Three-phase							
	For 6 MCBs 1+N	1	102	5ST3613		1	10 units	1AD
	For 9 MCBs 1+N		257.5	5ST3614		1	10 units	1AD
	For 12 MCBs 1+N		210	5ST3615		1	10 units	1AD

¹⁾ 1 MW (modular width) = 18 mm.

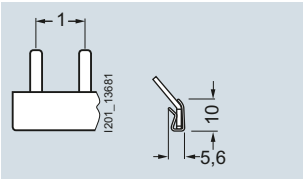
Dimensional drawings

5ST36
Pin spacing in MW

Dimensions of side view in mm (approx.).

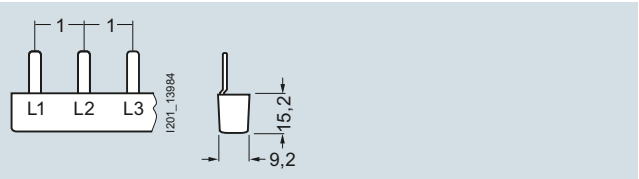


5ST3613
5ST3614
5ST3615



5ST37
Pin spacing in MW

Dimensions of side view in mm (approx.).



5ST3762
5ST3764

5ST3763
5ST3765

Miniature Circuit Breakers

Additional Components

Electrical components

Overview

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

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

Auxiliary switches (AS)

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

Fault signal contacts (FC)

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

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

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

The mode of operation of each function is described above.

Shunt trips (ST)

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

Undervoltage releases (UR)

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

RC units

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

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

Remote controlled mechanisms (RC)

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

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

Explanation of selector switch positions:

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

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

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

Benefits

Can be universally retrofitted with all additional components



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

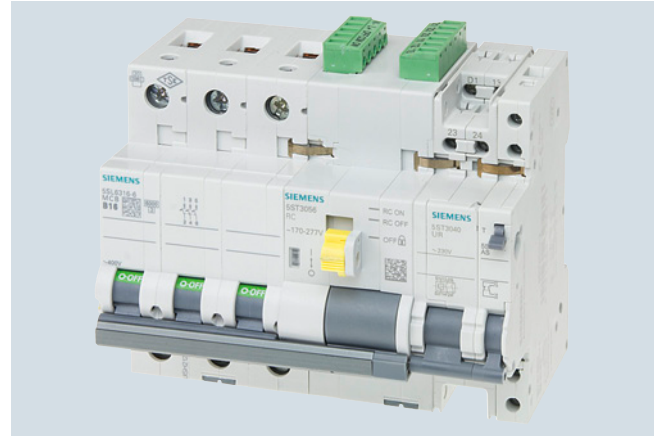


- Fault signal contacts with TEST and RESET button enable the simple testing of auxiliary circuits and, in the event of a fault, acknowledgement of the fault over the RESET button, without the need to switch the miniature circuit breakers.



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

Remote controlled mechanisms

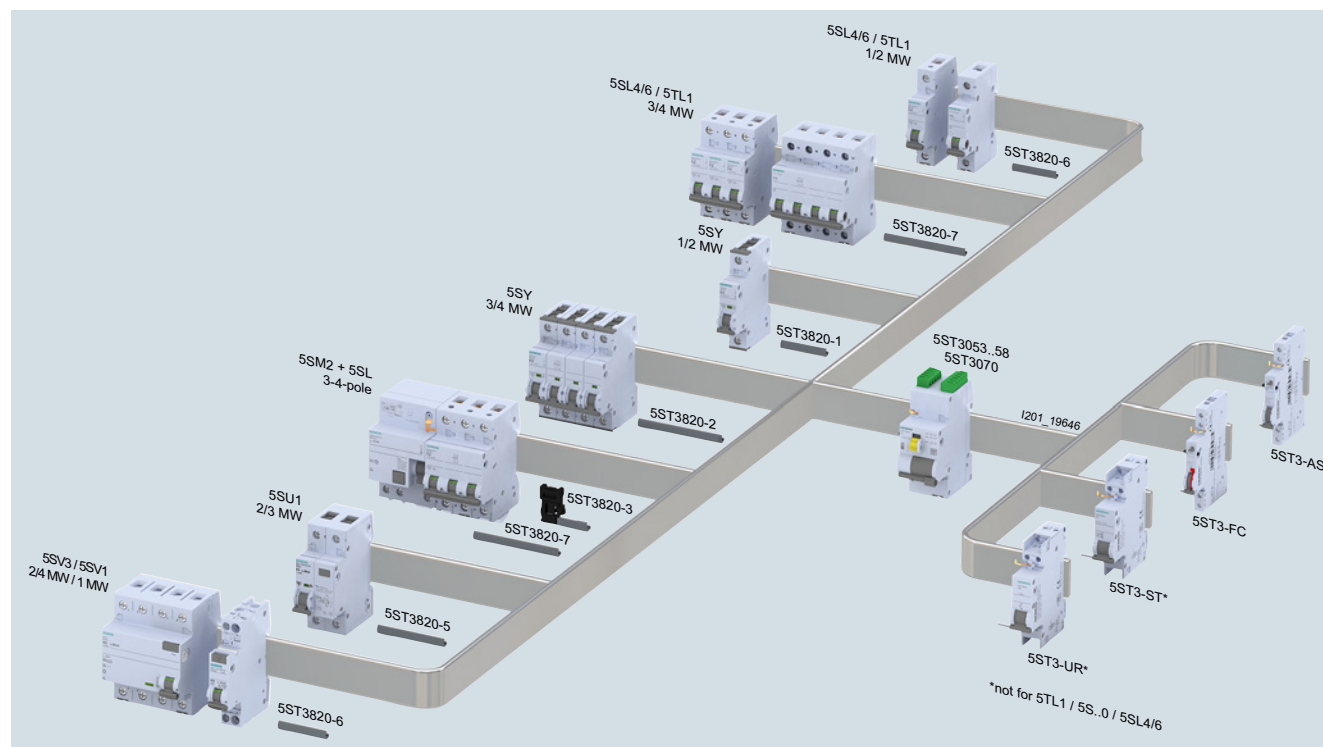


- Remote controlled mechanisms with ARD and Power have integrated auxiliary switches and fault signal contacts.
- More 5ST3... additional components, such as AS, FC, ST and UR, can be added to the right-hand side of the remote controlled mechanism in line with the Siemens mounting concept.
- The remote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

Additional Components

Electrical components

Portfolio overview



Miniature Circuit Breakers

Additional Components

Electrical components

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

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

* ARD = Auto Reclose Device

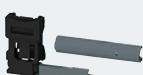
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Miniature Circuit Breakers

Additional Components

Electrical components

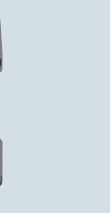
Combination options remote controlled mechanism – adapter – mount-on device

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

* ARD = Auto Reclose Device

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Technical specifications

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

Miniature Circuit Breakers

Additional Components

Electrical components

Selection and ordering data

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

¹⁾ 1 MW (modular width) = 18 mm.

Technical specifications

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

Miniature Circuit Breakers

Additional Components

Electrical components

			Undervoltage releases (UR) 5ST304.	Shunt trips (ST) 5ST3030 5ST3031	
Standards			EN 60947-1		
Rated voltages U_n	V AC		230	110 ... 415	24 ... 48
	V DC		24, 110	110 ... 220	24 ... 48
			0.85 ... 1.1 x U_n	0.7 ... 1.1 x U_n	
			--	50 ... 60	
• Operating range U_n					
• Rated frequency f_n		Hz			
Response limits: Tripping			< 0.35 ... 0.7 x U_n	--	
Short-circuit protection			Miniature circuit breakers B/C 6 A or fuse gG 6 A		
Minimum contact load			50 mA, 24 V		
Tripping operations			max. 2000		
Service life, on average, with rated load			20000 actuations		
Conductor cross-sections		mm ² AWG	0.5 ... 2.5 22 ... 14		
Terminals					
• Terminal tightening torque		Nm lb-in	0.8 6.8		
Mounting position			Any		
Ambient temperature		°C	-25 ... +55		
Storage temperature		°C	-40 ... +75		
Resistance to climate	Acc. to IEC 60068-2-30	Cycles	28		
Shock	Acc. to IEC 60068-2-27	m/s	50 at 11 ms half-sine		
Resistance to vibrations	Acc. to IEC 60068-2-6	m/s ²	50 at 10 ... 150 Hz		
Switching frequency			--		
Switching duration		s	--		
Minimum command duration		s	--		
Rated power dissipation		VA	--		
Rated frequency		Hz	50/60		

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

Selection and ordering data

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

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

Additional Components

Electrical components

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

¹⁾ 1 MW (modular width) = 18 mm.

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



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

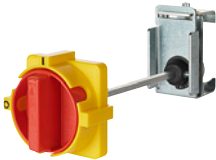
¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

Additional Components

Mechanical components

Selection and ordering data

Version	Mount- ing width MW ¹⁾	SD d	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
 Mechanical rotary operating mechanism complete with handle - For 5SY, but not for 5SYx0 1+N in 1 MW - For 5SP4, 5SL, 5TL1, 5TE2, 5TE8, 5SU1 Versions - Handle black - Handle red/yellow			5ST3060 5ST3061		1 1	1 unit 1 unit	1AD 1AD
 Terminal covers 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.		►	5ST3800		1	10 units	1AD
 Handle locking devices Sealable to prevent undesired mechanical ON/OFF switching For 5SP and 5SY miniature circuit breakers For padlock with max. 3 mm shackle			5ST3801		1	1 unit	1AD
 For 5SL, 5SV, 5TL1 miniature circuit breakers For padlock with 3 ... 6 mm shackle			5ST3806		1	5 units	1AD
 Padlocks Padlocks for 5ST3801 and 5ST3806 locking devices, 5ST30 remote controlled mechanisms (except for 5ST3053).			5ST3802		1	1 unit	1AD
Locking devices For 5SP and 5SY miniature circuit breakers comprising 5ST3801 handle locking device and 5ST3802 padlock			5ST3803		1	1 set	1AD
Locking devices For 5SL, 5SV, 5TL1 miniature circuit breakers, comprising 5ST3806 handle locking device and 5ST3802 padlock			5ST3807		1	1 set	1AD
 Spacers Can be placed on either side of the standard mounting rail. Two spacers allow for convenient cable routing	0.5		5TG8240		1	2 units	1BK
 Device labels Adhesive, for modular installation devices, e.g. 5SY, 5SL, 5TL1, etc. Versions 15 mm x 6 mm, white (WIN 098) 15 mm x 6 mm, yellow (WIN 099)			8WH8210-0AA35 8WH8210-0AA36		100 100	3740 units 3740 units	1BT 1BT

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

Additional Components

Mechanical components

	Version	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	Labeling system Available from:		Murrplastik Systemtechnik GmbH Postfach 1143 71570 Oppenweiler, Germany Telephone: +49 7191-482-0 Email: info@murrplastik.de				
	Terminal covers, gray For surface mounting, degree of protection IP40, sealable, with 35 mm standard mounting rail • Up to 2.5 MW • Up to 4.5 MW		5SW3004 5SW3005		1 1	1 unit 1 unit	1BE 1BE
	Wall enclosures, gray For flush mounting, degree of protection IP40, with 35 mm standard mounting rail • Up to 2.5 MW • Up to 4.5 MW		5SW3006 5SW3007		1 1	1 unit 1 unit	1BE 1BE
	Molded-plastic enclosures, gray For surface mounting, degree of protection IP54, with 35 mm standard mounting rail, sealable, with transparent hinged lid For 4.5 MW		5SW1200		1	1 unit	1BE
	Covers 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)	►	5ST2134 5ST2135 5ST2136		1 1 1	10 units 5 units 5 units	1AD 1AD 1AD
	Holders for front panel installation Universal use for devices from 1 to 6 MW Cutout dimensions: Height 45 ^{+0.5} mm Width 23, 41, 59, 77, 95 or 113 mm		7LF9006		1	1 unit	1BK
	Intermediate frames for 70 mm devices in 55 mm ALPHA SIMBOX small distribution boards Versions • 1-tier • 2-tier • 3-tier • 4-tier For further information on ALPHA distribution boards, ALPHA SIMBOX small distribution boards and intermediate frames, see chapter "Power Distribution Boards / Distribution Boards" .		8GB4561 8GB4562 8GB4563 8GB4564		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1BO 1BO 1BO 1BO

Miniature Circuit Breakers

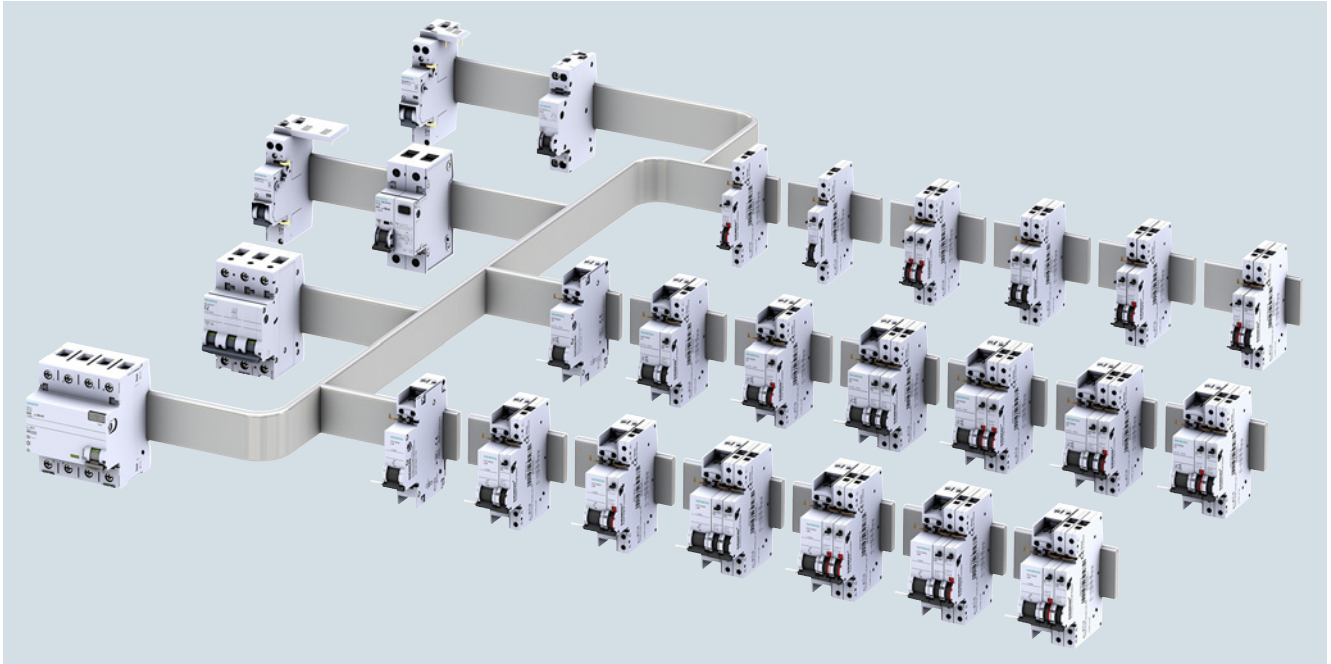
Additional Components

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 mm² and 16 mm² versions are available.

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

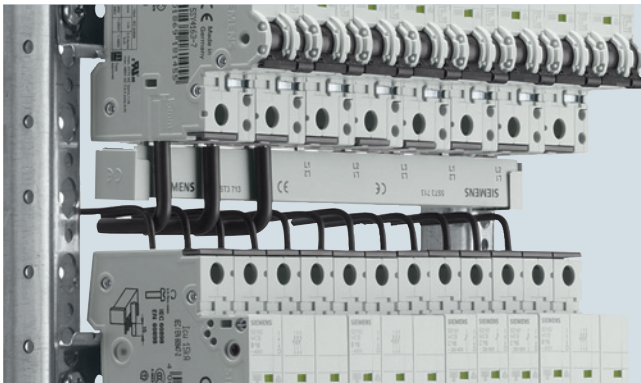
The extremely flexible 5ST36 busbar system with fixed lengths also enables installation in any length as the busbars can be overlapped.

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.

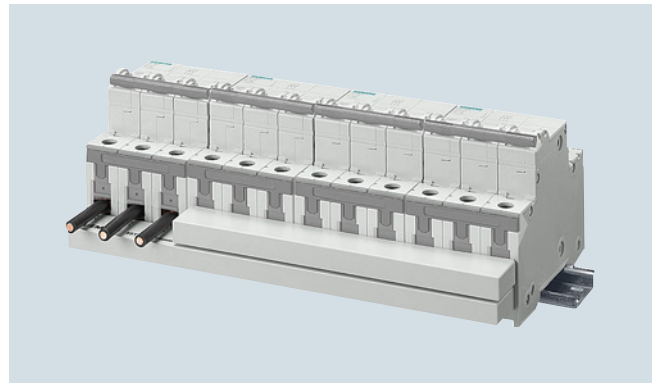
Any free pins on the busbars can be made safe by covering with touch protection.

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)".

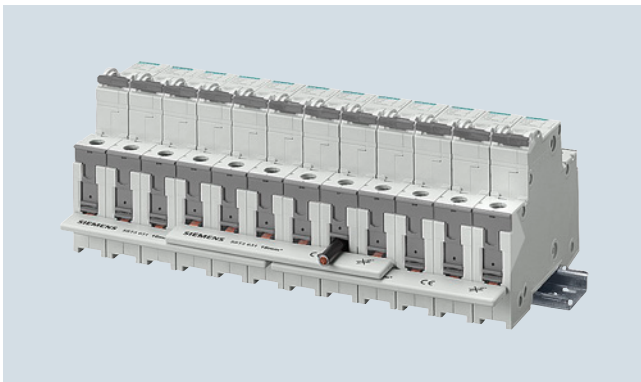
Benefits



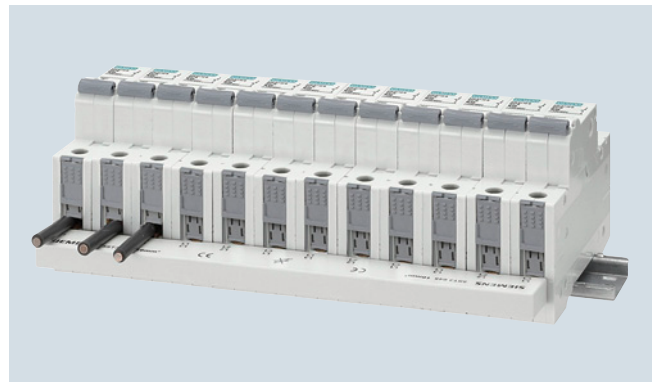
- Between the rows of devices, the busbar, which is located at the bottom and behind the conductor, provides an optimum wiring space with easy view of the inserted conductor. This enables easy control of connections.



- The ability to overlap when mounting the busbars enables a cross-section enlargement of up to 32 mm² using the respective components, 10 mm² and 16 mm².



- 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

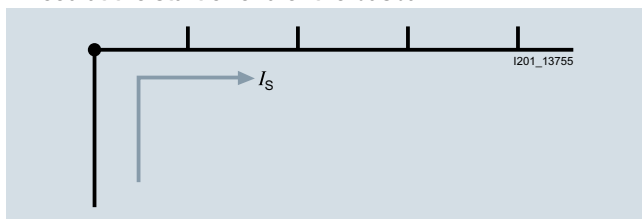
Busbars

5ST standard busbars

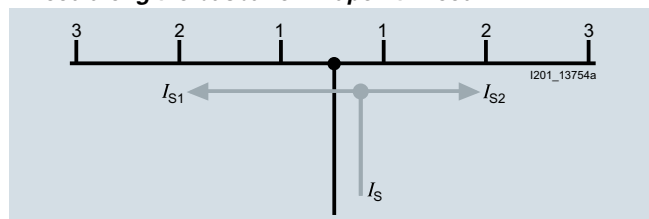
Technical specifications

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

Infeed at the start or end of the busbar

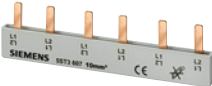
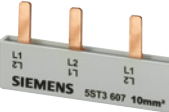


Infeed along the busbar or midpoint infeed



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

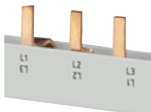
	Pin spacing	Length	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW ¹⁾	mm	d					
5ST36 busbar systems, 10 mm², for miniature circuit breakers, fixed lengths, cannot be cut, fully insulated								
	Single-phase							
	For 2 MCBs 1P	1	33	5ST3600		1	10 units	1AD
	For 6 MCBs 1P		105	5ST3601		1	10 units	1AD
	For 12 MCBs 1P		210	5ST3602		1	10 units	1AD
	Single-phase, for MCBs with AS or FC							
	For 2 MCBs 1P	1.5	40	5ST3603		1	10 units	1AD
	For 6 MCBs 1P		156.5	5ST3604		1	10 units	1AD
	For 9 MCBs 1P		237	5ST3605		1	10 units	1AD
	Two-phase							
	For 2 MCBs 2P	1	75.5	5ST3606		1	10 units	1AD
	For 3 MCBs 2P		105	5ST3607		1	10 units	1AD
	For 6 MCBs 2P		210	5ST3608		1	10 units	1AD
	Three-phase							
	For 2 MCBs 3P	1	102	5ST3613		1	10 units	1AD
	For 3 MCBs 3P		157.5	5ST3614		1	10 units	1AD
	For 4 MCBs 3P		210	5ST3615		1	10 units	1AD
	Three-phase, for MCBs with AS or FC							
	For 2 MCBs 3P	1+1+1.5	115	5ST3616		1	10 units	1AD
	For 4 MCBs 3P		237	5ST3617		1	10 units	1AD
	For 6 MCBs 1P	1.5	125	5ST3618		1	10 units	1AD
	For 9 MCBs 1P		229	5ST3620		1	10 units	1AD
	Three-phase							
	For 1 RCCB 4P N right and 8 MCBs 1P	1	210	5ST3624		1	10 units	1AD
	For 1 RCCB 4P N left and 8 MCBs 1P	1	192	5ST3667		1	10 units	1AD
	Four-phase							
	For 2 MCBs 4P or 3P+N	1	145	5ST3621		1	10 units	1AD
	For 3 MCBs 4P or 3P+N		215	5ST3622		1	10 units	1AD
	For 6 MCBs 2P or 1P+N		215	5ST3623		1	10 units	1AD
5ST36 busbars, 16 mm², for miniature circuit breakers, fixed lengths, cannot be cut, fully insulated								
	Single-phase							
	For 2 MCBs 1P	1	33	5ST3630		1	10 units	1AD
	For 6 MCBs 1P		105	5ST3631		1	10 units	1AD
	For 12 MCBs 1P		210	5ST3632		1	10 units	1AD
	Single-phase, for MCBs with AS or FC							
	For 2 MCBs 1P	1.5	40	5ST3633		1	10 units	1AD
	For 6 MCBs 1P		156.5	5ST3634		1	10 units	1AD
	For 9 MCBs 1P		237	5ST3635		1	10 units	1AD
	Two-phase							
	For 2 MCBs 2P	1	75.5	5ST3636		1	10 units	1AD
	For 3 MCBs 2P		105	5ST3637		1	10 units	1AD
	For 6 MCBs 2P		210	5ST3638		1	10 units	1AD
	Two-phase, for MCBs with AS or FC							
	For 2 MCBs 2P	1 + 1.5	75.5	5ST3640		1	10 units	1AD
	For 3 MCBs 2P		120.5	5ST3641		1	10 units	1AD
	For 5 MCBs 2P		210	5ST3642		1	10 units	1AD

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

Busbars

5ST standard busbars

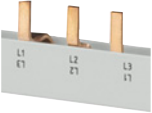
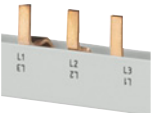
	Pin spacing	Length	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW ¹⁾	mm	d					
5ST36 busbars, 16 mm ² , for miniature circuit breakers, fixed lengths, cannot be cut, fully insulated								
Three-phase								
For 2 MCBs 3P	1	102.5		5ST3643		1	10 units	1AD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

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

Busbars

5ST standard busbars

	Pin spacing	Length	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW ¹⁾	mm	d					
5ST37 busbar system, 16 mm², 12 MW for miniature circuit breakers, can be cut, with end caps								
	Single-phase, angled							
	For MCBs 1P	1	214	▶	5ST3700	1	1 unit	1AD
	For MCBs 1P with AS or FC	1.5			5ST3702	1	1 unit	1AD
	Two-phase							
	For MCBs 2P	1		▶	5ST3704	1	1 unit	1AD
	For MCBs 2P with AS or FC	1+1.5			5ST3706	1	1 unit	1AD
	Three-phase							
	For MCBs 3P	1		▶	5ST3708	1	1 unit	1AD
	For MCBs 3P with AS or FC	1+1+1.5			5ST3711	1	1 unit	1AD
	For MCBs 1P with AS or FC	1.5			5ST3713	1	1 unit	1AD
	Four-phase							
	For MCBs 4P or 3P+N	1			5ST3715	1	1 unit	1AD
5ST37 busbar system, 16 mm², 56 MW for miniature circuit breakers, can be cut, without end caps								
	Single-phase, angled							
	For MCBs 1P	1	1016	▶	5ST3701	1	1 unit	1AD
	For MCBs 1P with AS or FC	1.5		▶	5ST3703	1	1 unit	1AD
	Two-phase							
	For MCBs 2P	1		▶	5ST3705	1	1 unit	1AD
	For MCBs 2P with AS or FC	1+1.5			5ST3707	1	1 unit	1AD
	Three-phase							
	For MCBs 3P	1		▶	5ST3710	1	1 unit	1AD
	For MCBs 3P with AS or FC	1+1+1.5		▶	5ST3712	1	1 unit	1AD
	For MCBs 1P with AS or FC	1.5			5ST3714	1	1 unit	1AD
	Four-phase							
	For MCBs 4P or 3P+N	1			5ST3716	1	1 unit	1AD
5ST37 busbar system, 10 mm², 56 MW can be cut, without end caps, with touch protection								
Four-phase								
For MCBs 2P and RCBOs 1P+N	1	1000			5ST3770-2	1	10 units	1AD
5ST37 busbar system, 16 mm², 56 MW can be cut, without end caps, with touch protection								
Four-phase								
For MCBs 2P and RCBOs 1P+N	1	1000			5ST3770-3	1	10 units	1AD
5ST37 busbar system, 10 mm², 16 MW can be cut, with end caps, with touch protection								
Four-phase								
For RCCBs 4P, N right and 6 MCBs 1P+N	1	292			5ST3770-4	1	10 units	1AD
5ST37 busbar system, 16 mm², 16 MW can be cut, with end caps, with touch protection								
Four-phase								
For RCCBs 4P, N right and 6 MCBs 1P+N	1	292			5ST3770-5	1	10 units	1AD
End caps for 5ST37, can be cut								
	For single-phase busbars		▶	5ST3748		1	10 units	1AD
	For two-phase and three-phase busbars		▶	5ST3750		1	10 units	1AD
	For four-phase busbars		▶	5ST3718		1	10 units	1AD
Terminals for 5ST36 and 5ST37 busbars								
	Terminals for conductors up to 25 mm²							
	• With cable entry in the center			5ST3768-3		1	10 units	1AD
	• With cable entry on the left			5ST3768-4		1	10 units	1AD
	• With cable entry on the right			5ST3768-5		1	10 units	1AD
	Terminals for conductors up to 50 mm²							
	• With cable entry in the center			5ST3760-3		1	10 units	1AD
	• With cable entry on the left			5ST3760-4		1	10 units	1AD
	• With cable entry on the right			5ST3760-5		1	10 units	1AD
Note								
The terminals are not suitable for 5ST376.								

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

Busbars

5ST standard busbars

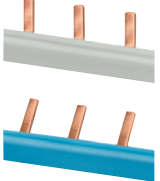
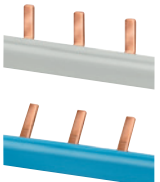
		Length of cable	Number of phases	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm		d					
Series connectors, 10 mm²									
	• N conductor blue	125	1		5ST3781-0		1	10 units	1AD
	• Cable black				5ST3791-0		1	10 units	1AD
	• Cable black		3		5ST3793-0		1	3 units	1AD
	• N conductor blue	150	1		5ST3781-1		1	10 units	1AD
	• Cable black				5ST3791-1		1	10 units	1AD
	• Cable black		3		5ST3793-1		1	3 units	1AD
Series connectors, 16 mm²									
	• N conductor blue	125	1		5ST3782-0		1	10 units	1AD
	• Cable black				5ST3792-0		1	10 units	1AD
	• Cable black		3		5ST3794-0		1	3 units	1AD
	• N conductor blue	150	1		5ST3782-1		1	10 units	1AD
	• Cable black				5ST3792-1		1	10 units	1AD
	• Cable black		3		5ST3794-1		1	3 units	1AD
	• N conductor blue	200	1		5ST3781-2		1	10 units	1AD
	• Cable black				5ST3791-2		1	10 units	1AD
	• Cable black		3		5ST3793-2		1	3 units	1AD
	• Cables: - 3 x black - 1 x blue		3+N		5ST3793-3		1	3 units	1AD

Miniature Circuit Breakers

Busbars

5ST standard busbars

3

	Pin spacing	Length	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW ¹⁾	mm	d					
5ST37 busbar system, 10 mm², 12 MW for 1+N miniature circuit breakers in 1 MW of the compact range, can be cut, with end caps								
	Single-phase							
	For 12 MCBs 1+N, gray	1	216	5ST3762		1	10 units	1AD
	For 12 MCBs 1+N, blue	1		5ST3763		1	10 units	1AD
	For 12 MCBs 1+N, blue, straight NEW	1		5ST3687-0		1	1 unit	1AD
5ST37 busbar system, 10 mm², 56 MW for 1+N miniature circuit breakers in 1 MW of the compact range, can be cut, without end caps								
	Single-phase							
	For MCBs 1+N, gray	1	1016	5ST3764		1	10 units	1AD
	For MCBs 1+N, blue	1		5ST3765		1	10 units	1AD
	For MCBs 1+N, blue, straight NEW	1		5ST3787-0		1	1 unit	1AD
End caps for 5ST376								
	1 set comprises a right and a left cap Gray			5ST3766		1	10 sets	1AD
	Blue			5ST3767		1	10 sets	1AD
Terminals								
	Terminals, short			5ST3768		1	25 units	1AD
	- For conductors up to 25 mm² - Infeed on side - Specially for single-phase busbars and for 5ST3615-1 three-phase busbars							
	Terminals, short, IP20			5ST3771-2		1	10 units	1AD
	- For conductors up to 25 mm² - Infeed on side - Specially for single-phase busbars and for 5ST3615-1 three-phase busbars							

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

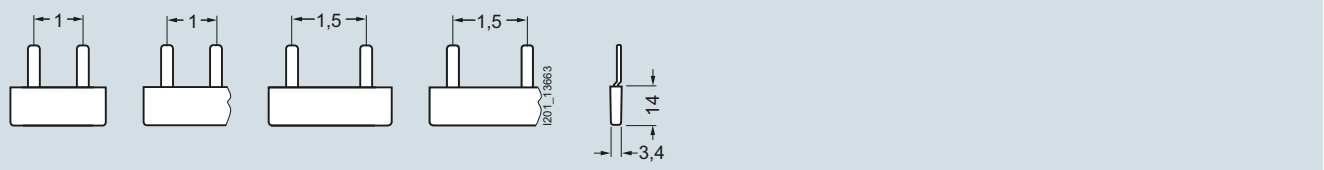
Busbars

5ST standard busbars

5ST36

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

Dimensions of side view in mm (approx.)

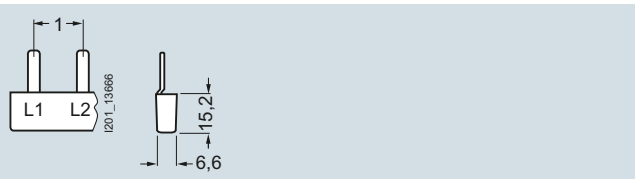


5ST3600
5ST3630

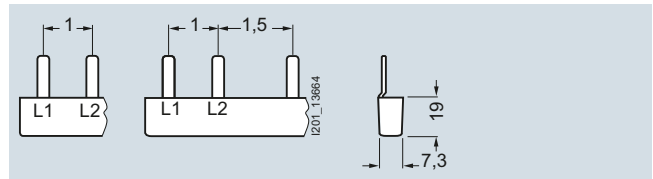
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5ST3602
5ST3631
5ST3632

5ST3603
5ST3633

5ST3604
5ST3605
5ST3634
5ST3635

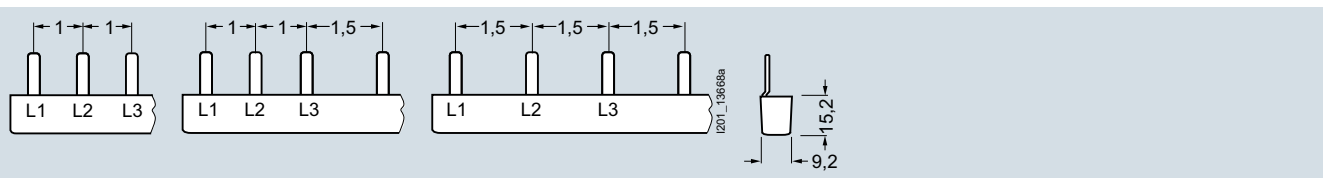


5ST3606
5ST3607
5ST3608



5ST3636
5ST3637
5ST3638

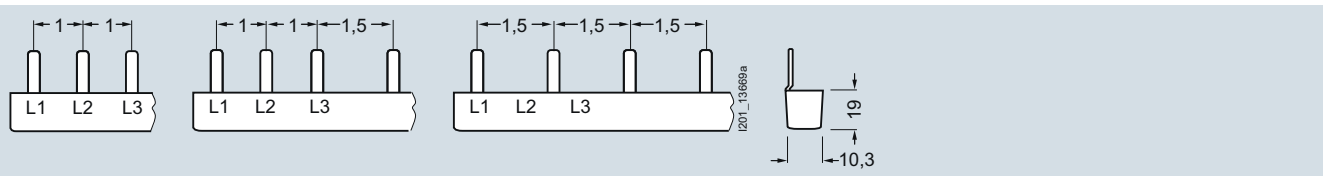
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5ST3641
5ST3642



5ST3613
5ST3614
5ST3615
5ST3667

5ST3616
5ST3617

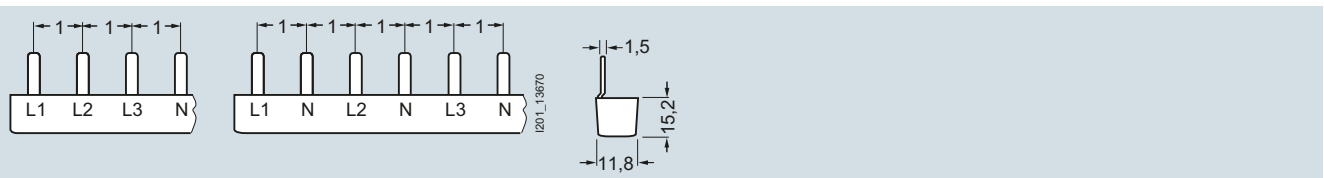
5ST3618
5ST3620



5ST3643
5ST3644
5ST3645
5ST3668

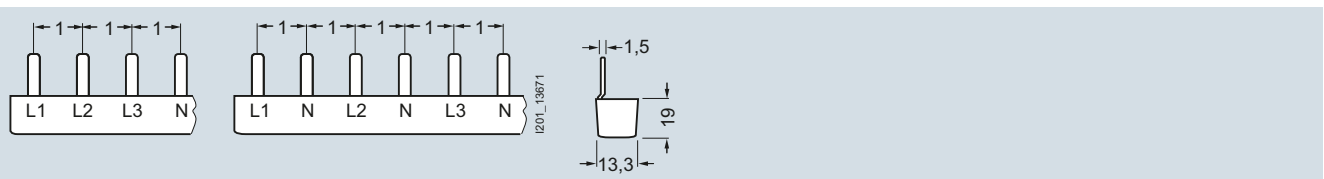
5ST3646
5ST3647

5ST3648
5ST3650



5ST3621
5ST3622

5ST3623

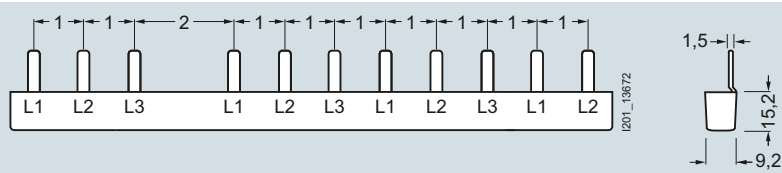


5ST3651
5ST3652

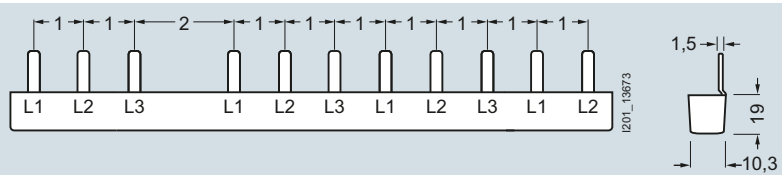
5ST3653

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

Dimensions of side view in mm (approx.)



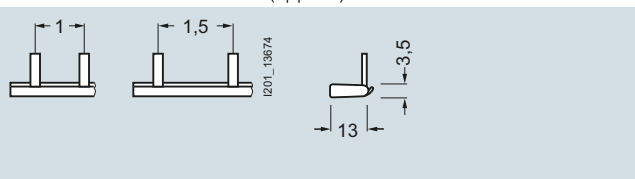
5ST3624



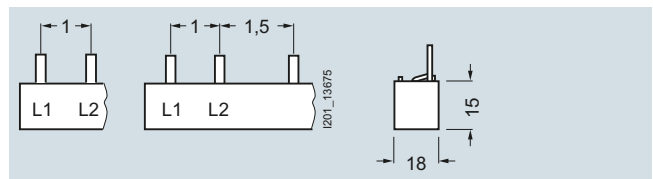
5ST3654

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

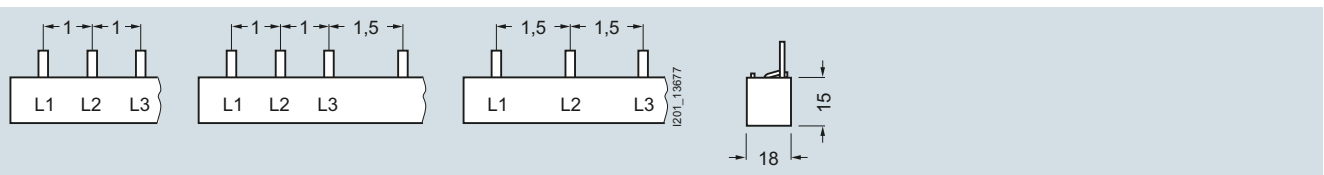
Dimensions of side view in mm (approx.)



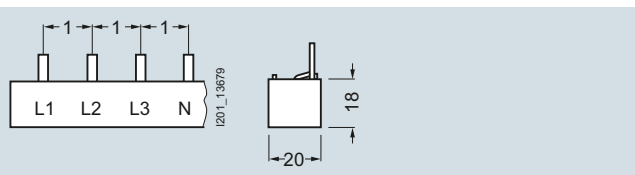
5ST3700 5ST3702
 5ST3701 5ST3703
 5ST3730 5ST3732
 5ST3731 5ST3733
 Single-phase Single-phase



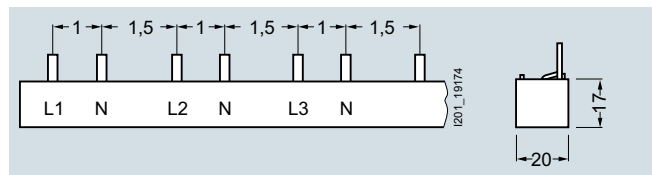
5ST3704 5ST3706
 5ST3705 5ST3707
 5ST3734 5ST3736
 5ST3735 5ST3737
 Two-phase Two-phase



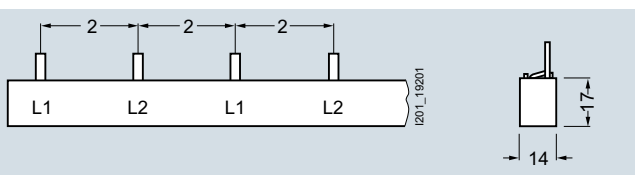
5ST3708 5ST3711 5ST3713
 5ST3710 5ST3712 5ST3714
 5ST3738 5ST3741 5ST3743
 5ST3740 5ST3742 5ST3744



5ST3715
 5ST3716
 5ST3745
 5ST3746



5ST3746-2



5ST3735-2

Miniature Circuit Breakers

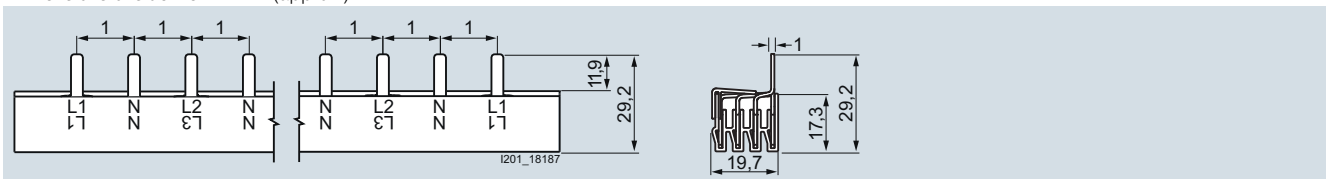
Busbars

5ST standard busbars

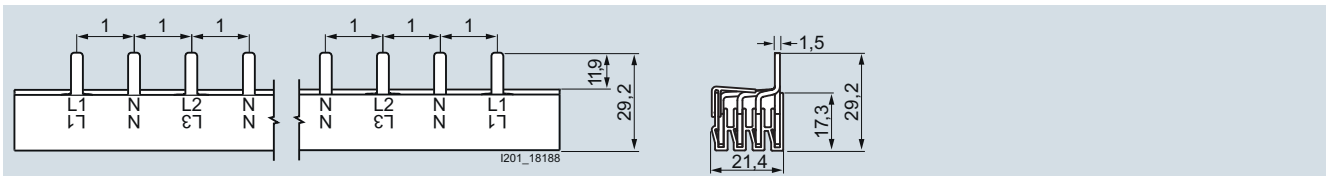
5ST37

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

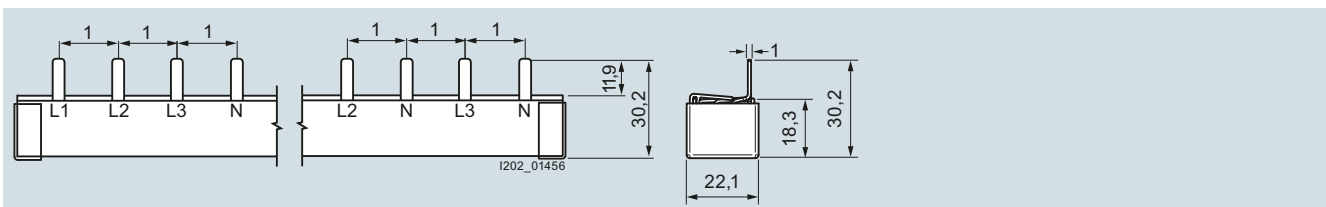
Dimensions of side view in mm (approx.)



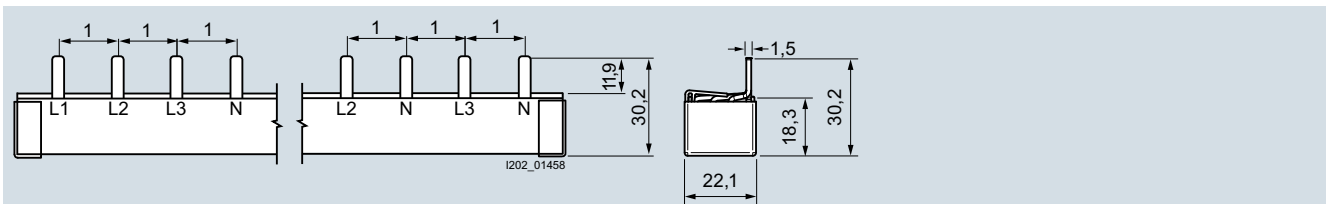
5ST3770-2



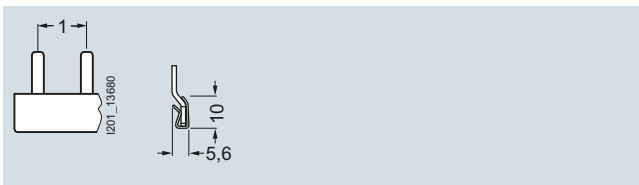
5ST3770-3



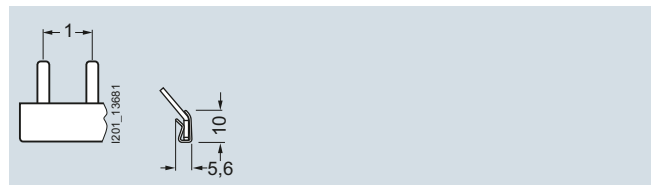
5ST3770-4



5ST3770-5



5ST3762
5ST3764



5ST3763
5ST3765

Overview

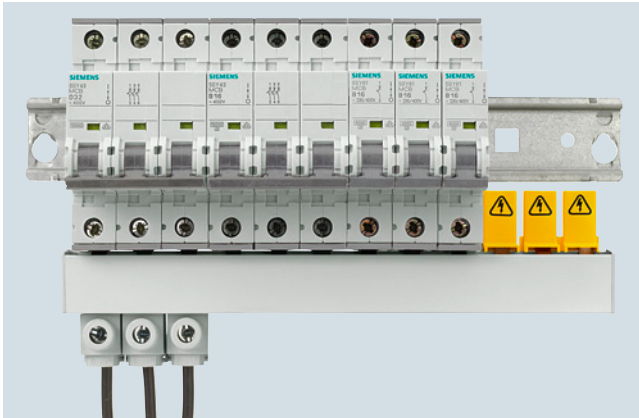
Products according to UL standards are used in North America, but also in several other countries. This is important in particular for exporting machines or electrical switchboard assemblies and equipment to the USA. Acceptance and delivery are possible only if the relevant UL standards are satisfied.

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.

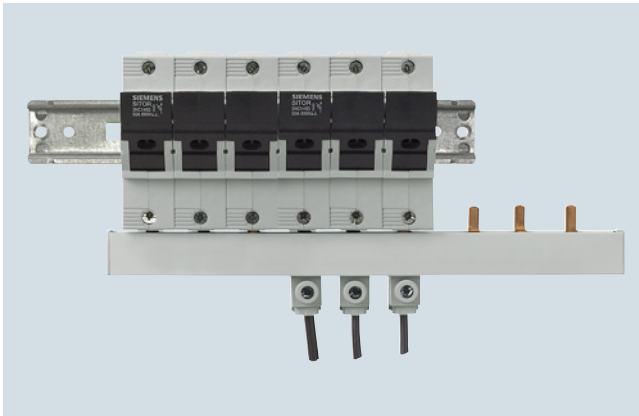
The busbars are available in single, two and three-phase versions with different pin spacings and with two cross-sections, 18 mm² and 25 mm². Infeed can be directly into the terminals of the miniature circuit breaker or through connection terminals.

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.

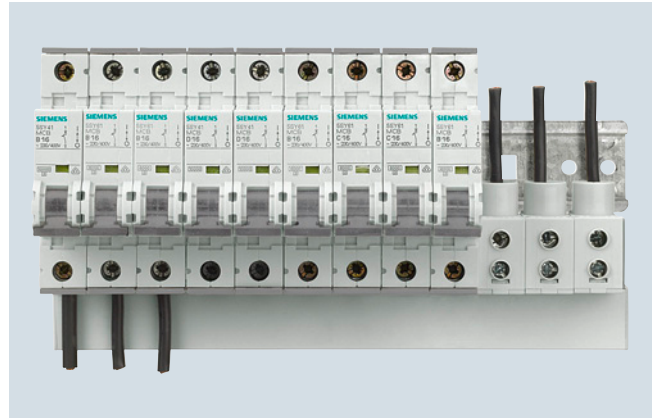
Benefits



- Busbar with infeed through a connection terminal directly on the miniature circuit breaker up to a conductor cross-section of 35 mm².



- Bus mounting with infeed at the fuse holder for conductor cross-sections up to 35 mm².



- Infeed directly on the miniature circuit breaker up to a conductor cross-section of 35 mm² and connection terminal for connection directly on the busbar up to a conductor cross-section of 50 mm²
- Suitable for universal use according to both IEC and UL standards
- Can be used for 5SY, 5SP miniature circuit breakers and for Class CC, SITOP cylindrical and semiconductor fuse holders
- UL-tested combination – device and busbar
- Different cross-sections 18 mm² and 25 mm²

Miniature Circuit Breakers

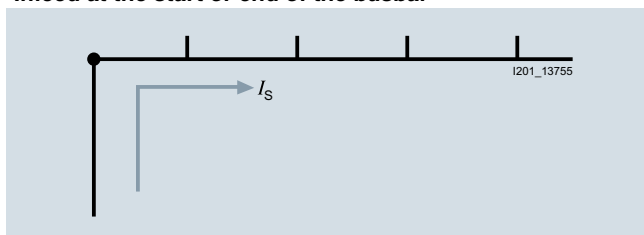
Busbars

5ST3 busbars acc. to UL 508

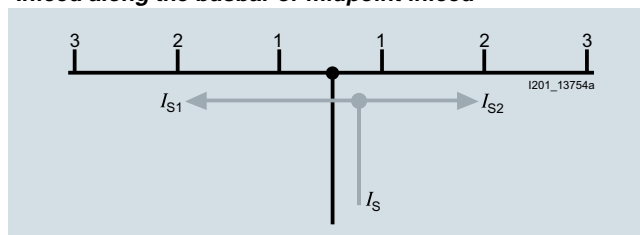
Technical specifications

			5ST37...-0HG	5ST37...-2HG	5ST3770-0HG	5ST3770-1HG
Standards			UL 508, CSA C22.2 No. 14-M 95 / IEC 60999			
Approvals			UL 508 File No. E328403 CSA			
Operational voltage						
• Acc. to IEC		V AC	690			
• Acc. to UL 508		V AC	600			
Rated conditional short-circuit current			kA	10		
• Dielectric strength		kV/mm	25			
• Surge strength		kV	> 9.5			
Max. current	UL	A	--	--	115	
	IEC	A	--	--	160	
Maximum busbar current I_S per phase						
• Infeed at the start of the busbar		A	80	100	--	--
• Infeed at the center of the busbar		A	160	200	--	--
Insulation coordination						
• Overvoltage category		III				
• Pollution degree		2				
Short-circuit current load capability			10000 A RMS sym. 600 V for three circuits			
18 mm ²		100000 A RMS sym. for protection with Class J 175 A				
25 mm ²		100000 A RMS sym. for protection with Class J 200 A				
Busbar cross-section		mm ² Cu	18	25	--	--
Infeed			Any			
Conductor cross-sections						
Solid	AWG	--	--	10 ... 1/0		10 ... 1
	mm ²	--	--	6 ... 35 (Cu 60 °C)		6 ... 50 (Cu 75 °C)
Stranded	AWG	--	--	10 ... 2		
	mm ²	--	--	6 ... 35		
Terminals						
± screw (Pozidriv)			--	--	2	2
• Terminal tightening torque		Nm	--	--	5	3.5
		lb-in	--	--	50	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. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW ¹⁾	mm	d					
5ST37...-HG busbars acc. to UL 508, 18 mm ² , can be cut, without end caps								
	Single-phase							
	• For MCBs 1P (5SY) or fuse holders 10 x 38 mm/class CC (3NC1091, 3NW7513-0HG)	1	1000	5ST3701-0HG		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	5ST3703-0HG		1	1 unit	1AE
	Two-phase							
	• For MCBs 2P (5SY) or fuse holders 10 x 38 mm/class CC (3NC1092, 3NW7523-0HG)	1	1000	5ST3705-0HG		1	1 unit	1AE
	• For MCBs 2P (5SY) with AS or FC	1+1.5	1000	5ST3707-0HG		1	1 unit	1AE
	Three-phase							
	• For MCBs 3P (5SY) or fuse holders 10 x 38 mm/class CC (3NC1093, 3NW7533-0HG)	1	1000	5ST3710-0HG		1	1 unit	1AE
	• For MCBs 3P (5SY) with AS or FC	1+1+1.5	1000	5ST3712-0HG		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	5ST3714-0HG		1	1 unit	1AE
5ST37...-HG busbars acc. to UL 508, 25 mm ² , can be cut, without end caps								
	Single-phase							
	For MCBs 1P (5SP) or fuse holders 14 x 51 mm (3NC1491, 3NW7111)	1.5	1000	5ST3701-2HG		1	1 unit	1AE
	Two-phase							
	For MCBs 2P (5SP) or fuse holders 14 x 51 mm (3NC1492, 3NW7121)	1.5	1000	5ST3705-2HG		1	1 unit	1AE
	Three-phase							
	For MCBs 3P (5SP) or fuse holders 14 x 51 mm (3NC1493, 3NW7131)	1.5	1000	5ST3710-2HG		1	1 unit	1AE
End caps for 5ST37...-HG								
	• For single-phase busbars			5ST3748-0HG		1	10 units	1AE
	• For two- and three-phase busbars			5ST3750-0HG		1	10 units	1AE
Terminals according to UL 508								
	Infeed to device 35 mm ²			5ST3770-0HG		1	10 units	1AE
	Infeed to busbar 50 mm ²			5ST3770-1HG		1	10 units	1AE
Touch protection cover for busbars according to UL 508								
	5 x 1 pin			5ST3655-0HG		1	10 units	1AE

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

Busbars

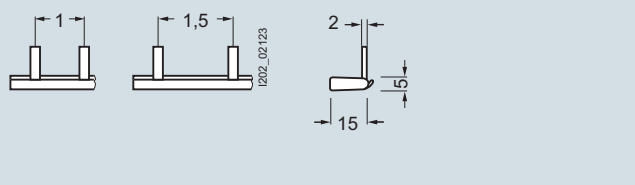
5ST3 busbars acc. to UL 508

Dimensional drawings

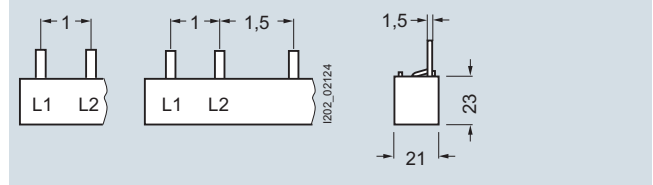
5ST37 busbars

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

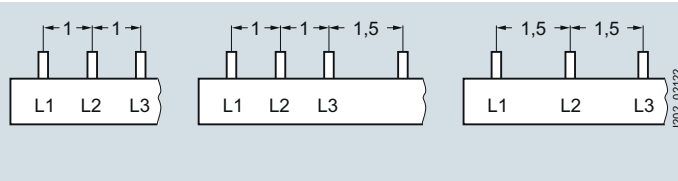
Dimensions of side view in mm (approx.)



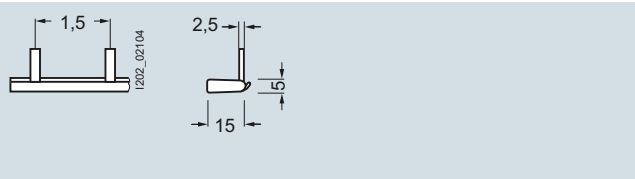
5ST3701-0HG 5ST3703-0HG



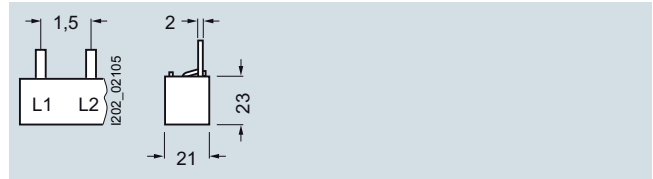
5ST3705-0HG 5ST3707-0HG



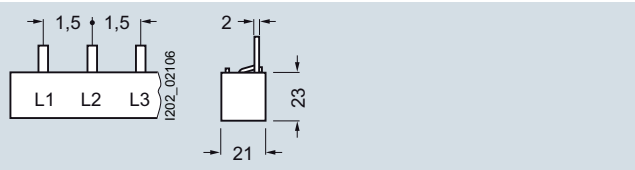
5ST3710-0HG 5ST3712-0HG 5ST3714-0HG



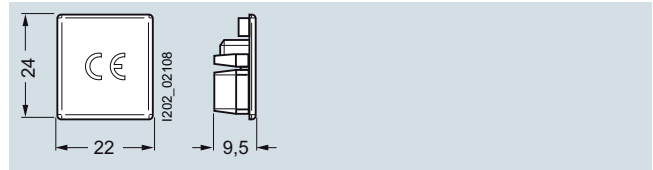
5ST3701-2HG



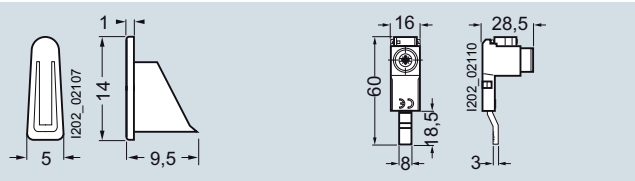
5ST3705-2HG



5ST3710-2HG

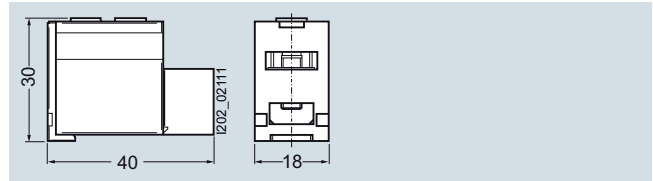


5ST3750-0HG



5ST3748-0HG

5ST3770-0HG

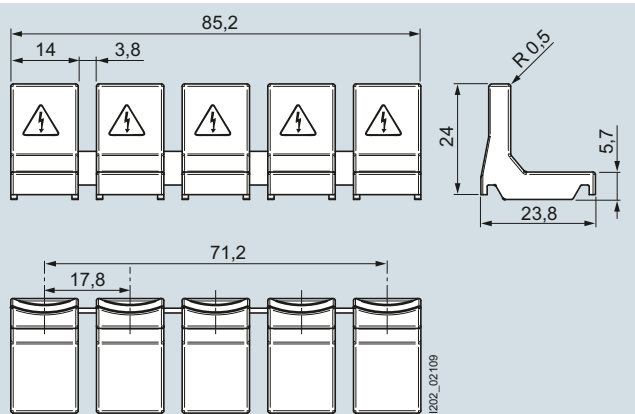


5ST3770-1HG

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
Standards, certifications				IEC 60947-7-1		
Degree of protection				IP20		
Poles				4		
Approved cable				Copper		
Conductor cross-section						
• Inputs per pole - Solid/stranded conductor acc. to IEC	Neutral conductor	mm ²	1 x 2.5 ... 16	1 x 6 ... 35	1 x 10 ... 50	
		mm ²	1 x 1.5 ... 16	1 x 6 ... 35	--	
	- Finely stranded with end sleeve	mm ²	1 x 1.5 ... 10	1 x 6 ... 25	1 x 10 ... 35	
		mm ²	--	1 x 6 ... 25	--	
• Outputs per pole - Solid/stranded conductor acc. to IEC	Neutral conductor	Large mm ²	8 x 1.5 ... 10	2 x 4 ... 16	3 x 10 ... 35	
		Small mm ²	--	5 x 1.5 ... 6	8 x 2.5 ... 16	
		Large mm ²	--	6 x 4 ... 16	--	
		Small mm ²	--	4 x 1.5 ... 10	--	
	- Finely stranded with end sleeve	Large mm ²	8 x 1.5 ... 10	2 x 4 ... 10	3 x 10 ... 25	
		Small mm ²	--	5 x 1.5 ... 6	8 x 1.5 ... 16	
		Neutral conductor Large mm ²	--	6 x 4 ... 10	--	
		Small mm ²	--	4 x 1.5 ... 6	--	
Tightening torque						
• Inputs	Plug-in connection	lb-in	13.5	13.5	3.5 ... 5	
		Nm	1.5	1.5	2	
• Outputs	Large	lb-in	13.5	13.5	13.5	
	Plug-in connection	Nm	1.5	1.5	1.5	
			PZ1	PZ2	PZ2	
	Small	lb-in	--	7.2	13.5	
Plug-in connection	Nm	--	0.8	1.5		
		--	PZ1	PZ2		
Operational voltage						
• IEC, max.	V		690	690	690	
Ambient temperature				°C -25 ... +70		
Overcurrent protection						
• Max. rated current • Rated peak withstand current (<i>I</i> _{pk}) • Rated short-time withstand current (<i>I</i> _{CW} 1 s)	A	80	125	160		
	kA	21.6	24	20		
	kA	3	4.2	6.2		
Block dimensions (D x H x W)		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
Standards, certifications		UL 1059 / UL 486E / IEC 60947-7-1 UL File No. E80027 / XCFR2 C22.2 No. 158 -1987 / XCFR8				
Degree of protection		IP20				
Poles		1				
Approved cable		Copper				
Wiring type • Front/back		Factory and field wiring Pressure wire connector				
Conductor cross-section						
• Inputs						
- 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 ²	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 ²	--	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 ²	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 ²	--	2.5 ... 25	--		
• Outputs						
- 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 ²	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 ²	--			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 ²	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 ²	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 ²	2.5 ... 6	--		2 x 2.5 ... 25	4 x 2.5 ... 25
Tightening torque						
• Inputs	lb-in Nm	13.2 ... 26.5 1.5 ... 3	31 ... 44 3.5 ... 5	44 ... 53 5 ... 6	170 ... 186 19 ... 21	222 25
	Plug-in connection		Allen key (4 mm)	Allen key (5 mm)	Allen key (6 mm)	Allen key (8 mm)
• Outputs	Large lb-in Nm	13.2 ... 26.5 1.5 ... 3	17.7 ... 26.5 2 ... 3	13.2 ... 26.5 1.5 ... 3	31 ... 62 3.5 ... 7	
	Plug-in connection	PZ2			Standard screwdriver	
	Small lb-in Nm	7 ... 13.2 0.8 ... 1.5	--	--	18 ... 27 2 ... 3	
	Plug-in connection	PZ1	--	--	Standard screwdriver	
Amperes per pole, max. (UL/IEC)	A	80/80	115/125	160/160	230/250	310/400
Operational voltage						
• UL, max. (AC)	V	600				
• IEC, max. (AC/DC)	V	1000/1500				
Overcurrent protection						
• Required class		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	
Clearance						
• Air	inches (mm)	3 / 8 (9.5)				
• Creepage distance	inches (mm)	1 / 2 (12.7)				
Ambient temperature	°C	-25 ... +70				
Fire class		UL 94V-0				
Block dimensions (D x H x W)	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
Connections		With cable up to 16 mm ²	With connector or cable up to 16 mm ² ¹⁾	Lateral incoming feeder for parallel connection with copper bar (max. 16 x 5 mm)	--	--

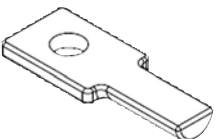
¹⁾ Copper jumper is tested for a rated current of 100 A

Miniature Circuit Breakers

Busbars

5ST2 distribution blocks

Selection and ordering data

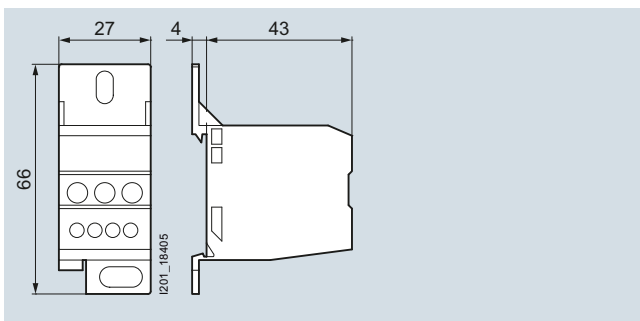
	Version	Standard	I	U	Mounting width	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			A	V	MW	d					
Distribution blocks											
	1-pole	UL 1059 / UL 486E / IEC 60947-7-1	80	600	1.5		5ST2504		1	1 unit	1AD
			125	600	1.5		5ST2505		1	1 unit	1AD
		UL File No. E80027 / XCFR2	160	600	2	▶	5ST2507		1	1 unit	1AD
		C22.2 No. 158 -1987 / XCFR8									
		UL 486E / IEC 60947-7-1	250	600	2.5	▶	5ST2508		1	1 unit	1AD
		UL File No. E80027 / XCFR2	350	600	2.5	▶	5ST2511		1	1 unit	1AD
5ST2504											
	4-pole	IEC 60947-7-1	80	500	5		5ST2501		1	1 unit	1AD
5ST2501											
		IEC 60947-7-1	125	690	5.5		5ST2502		1	1 unit	1AD
5ST2502											
		IEC 60947-7-1	160	500	9		5ST2503		1	1 unit	1AD
5ST2503											
Accessories											
	Connector for 5ST2505 distribution board		--	--	--		5ST2506		1	10 units	1AD
	• With touch protection • 20 mm ² • Single-phase • 32 mm										
5ST2506											
	Terminal lug ring terminal end for distribution block										
	Versions										
	• For 5ST2508 distribution block						5ST2510		1	10 units	1AD
	• For 5ST2511 distribution block						5ST2512		1	10 units	1AD

Miniature Circuit Breakers

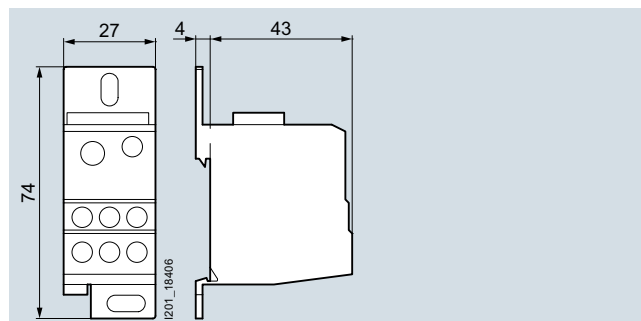
Busbars

5ST2 distribution blocks

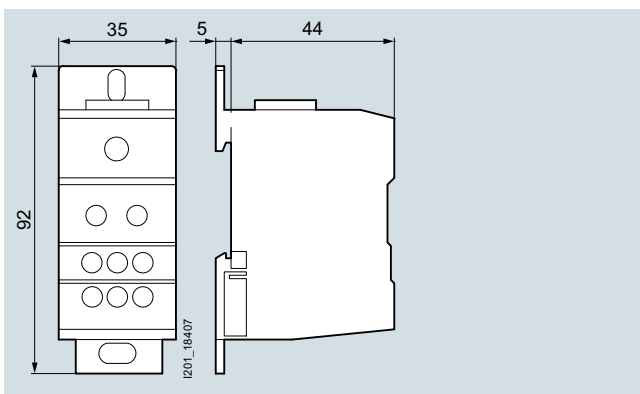
Dimensional drawings



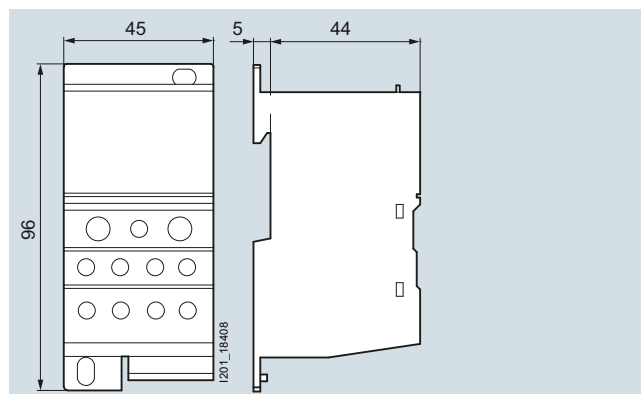
5ST2504



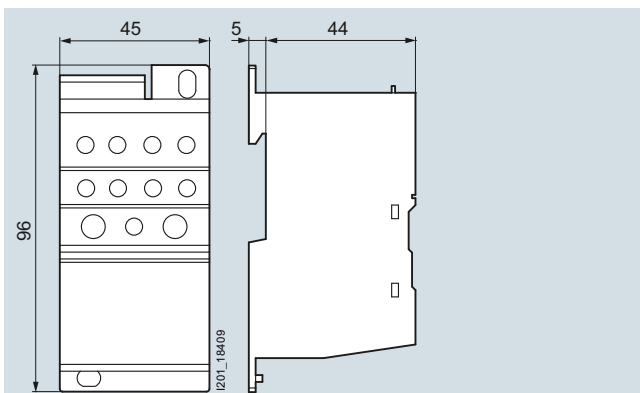
5ST2505



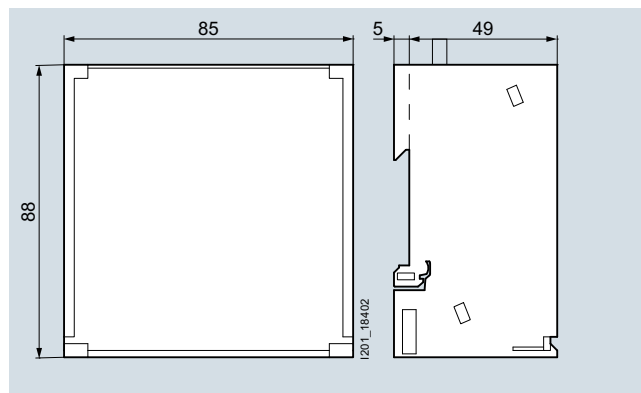
5ST2507



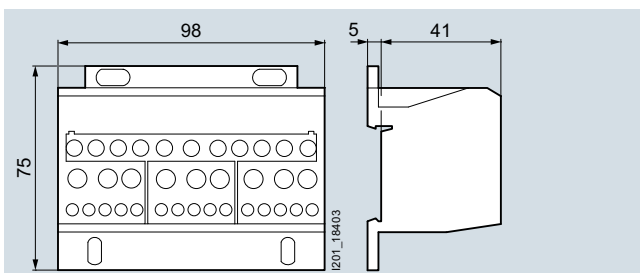
5ST2508



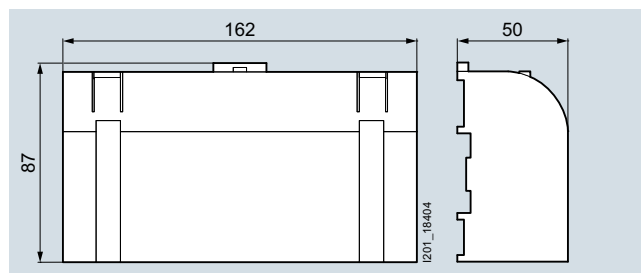
5ST2511



5ST2501



5ST2502



5ST2503

Overview

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

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

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

High degree of protection because each contact is locked individually.

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

Technical specifications

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

Selection and ordering data

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

Note:

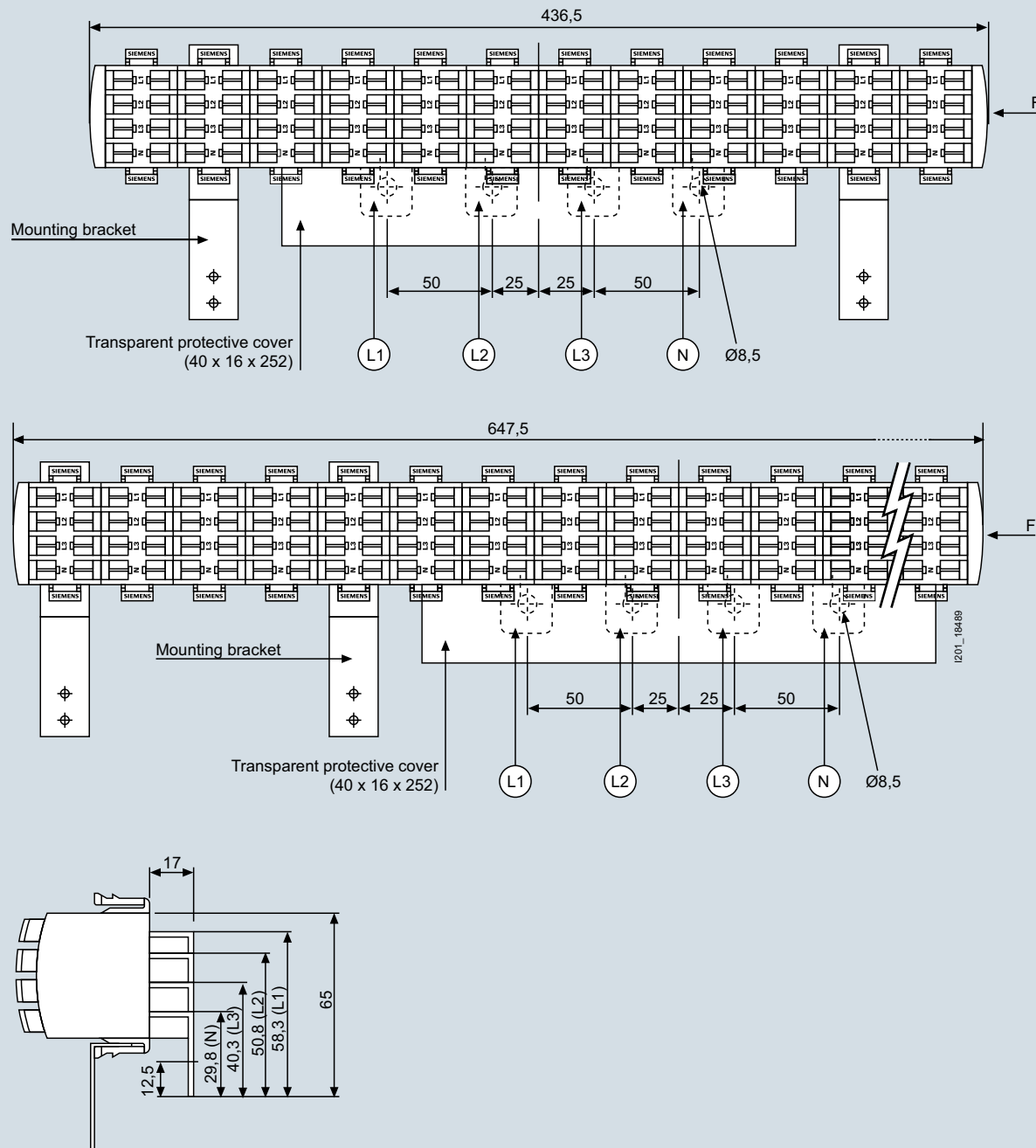
To install the SIKclip wiring system in the ALPHA AS, the busbars must be installed in a vertical rear position, but not recessed. If the busbars are in a recessed position the cables will not reach the circuit breakers.

Miniature Circuit Breakers

Busbars

SIKclip wiring system

Dimensional drawings



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.

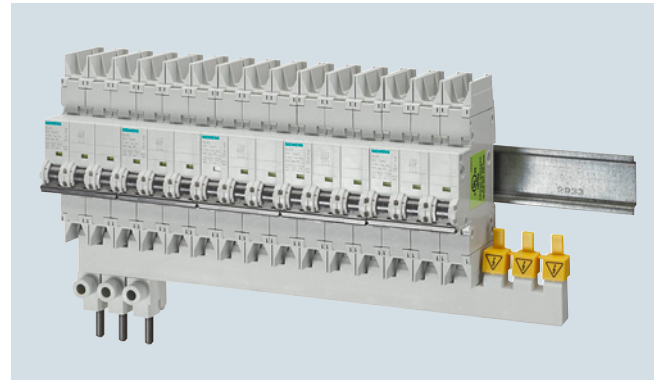
The terminals are suitable for "field wiring". This means that the devices can be installed not only in factory-built distribution boards and control cabinets, but also on-site in a customer system.

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.

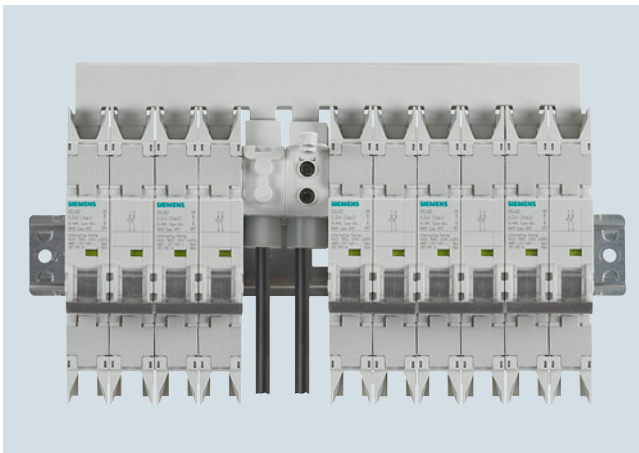
Single, two and three-phase busbars in 3 lengths with 6, 12 or 18 pins are available as accessories for all device series for "field wiring". The infeed is via connection terminals, which are available in two versions, for direct infeed at either the busbar or the miniature circuit breakers. Pins that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

Benefits

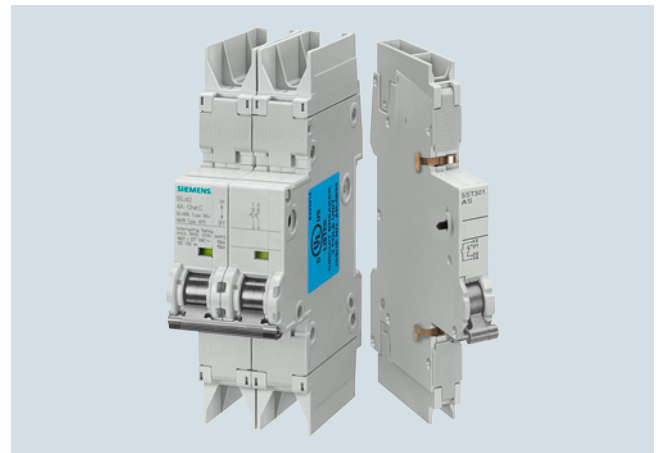
- Can be used globally for all applications in residential, non-residential and industrial buildings. This facilitates the planning of installations and enhances export opportunities
- The devices can be used according to IEC/EN 60898-1 and UL 489, which means they can be installed anywhere in the world
- 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 mm²



- Infeed directly at miniature circuit breaker for conductor cross-sections up to 35 mm²



- Bus mounting with central infeed directly on the busbar up to conductor cross-section of 50 mm²



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

¹⁾ For detailed information about rated switching capacity, [see Configuration Manual "Miniature Circuit Breakers" \(www.siemens.com/lowvoltage/manuals\)](#).

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

3

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

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

1) 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. www.siemens.com/product?Article No.				
A	MW ¹⁾	d					
Miniature circuit breakers "same polarity only" 1P, 240 V AC							
6	1		5SJ4106-6HG40		1	1 unit	1AE
10			5SJ4110-6HG40		1	1 unit	1AE
13			5SJ4113-6HG40		1	1 unit	1AE
15			5SJ4118-6HG40		1	1 unit	1AE
16			5SJ4116-6HG40		1	1 unit	1AE
20			5SJ4120-6HG40		1	1 unit	1AE
25			5SJ4125-6HG40		1	1 unit	1AE
30			5SJ4130-6HG40		1	1 unit	1AE
32			5SJ4132-6HG40		1	1 unit	1AE
35			5SJ4135-6HG40		1	1 unit	1AE
40			5SJ4140-6HG40		1	1 unit	1AE
45			5SJ4145-6HG40		1	1 unit	1AE
50			5SJ4150-6HG40		1	1 unit	1AE
60			5SJ4160-6HG40		1	1 unit	1AE
63			5SJ4163-6HG40		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. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
A	MW ¹⁾	d							d				
 Miniature circuit breakers "same polarity only" 1P, 240 V AC													
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
 Miniature circuit breakers 1P, 240 V AC													
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. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	MW ¹⁾	d						d					
	Miniature circuit breakers 2P, 240 V AC													
	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	
	Miniature circuit breakers 3P, 240 V AC													
	0.3	3		5SJ4314-7HG41		1	1 unit	1AE		5SJ4314-8HG41		1	1 unit	1AE
	0.5			5SJ4305-7HG41		1	1 unit	1AE		5SJ4305-8HG41		1	1 unit	1AE
	1			5SJ4301-7HG41		1	1 unit	1AE		5SJ4301-8HG41		1	1 unit	1AE
	1.6			5SJ4315-7HG41		1	1 unit	1AE		5SJ4315-8HG41		1	1 unit	1AE
	2			5SJ4302-7HG41		1	1 unit	1AE		5SJ4302-8HG41		1	1 unit	1AE
	3			5SJ4303-7HG41		1	1 unit	1AE		5SJ4303-8HG41		1	1 unit	1AE
	4			5SJ4304-7HG41		1	1 unit	1AE		5SJ4304-8HG41		1	1 unit	1AE
	5			5SJ4311-7HG41		1	1 unit	1AE		5SJ4311-8HG41		1	1 unit	1AE
	6			5SJ4306-7HG41		1	1 unit	1AE		5SJ4306-8HG41		1	1 unit	1AE
	8			5SJ4308-7HG41		1	1 unit	1AE		5SJ4308-8HG41		1	1 unit	1AE
	10			5SJ4310-7HG41		1	1 unit	1AE		5SJ4310-8HG41		1	1 unit	1AE
	13			5SJ4313-7HG41		1	1 unit	1AE		5SJ4313-8HG41		1	1 unit	1AE
	15			5SJ4318-7HG41		1	1 unit	1AE		5SJ4318-8HG41		1	1 unit	1AE
	16			5SJ4316-7HG41		1	1 unit	1AE		5SJ4316-8HG41		1	1 unit	1AE
	20			5SJ4320-7HG41		1	1 unit	1AE		5SJ4320-8HG41		1	1 unit	1AE
	25			5SJ4325-7HG41		1	1 unit	1AE		5SJ4325-8HG41		1	1 unit	1AE
	30			5SJ4330-7HG41		1	1 unit	1AE		5SJ4330-8HG41		1	1 unit	1AE
	32			5SJ4332-7HG41		1	1 unit	1AE		5SJ4332-8HG41		1	1 unit	1AE
	35			5SJ4335-7HG41		1	1 unit	1AE		5SJ4335-8HG41		1	1 unit	1AE
	40			5SJ4340-7HG41		1	1 unit	1AE		5SJ4340-8HG41		1	1 unit	1AE
	45			5SJ4345-7HG41		1	1 unit	1AE		5SJ4345-8HG41		1	1 unit	1AE
	50			5SJ4350-7HG41		1	1 unit	1AE		5SJ4350-8HG41		1	1 unit	1AE
60			5SJ4360-7HG41		1	1 unit	1AE		5SJ4360-8HG41		1	1 unit	1AE	
63			5SJ4363-7HG41		1	1 unit	1AE		5SJ4363-8HG41		1	1 unit	1AE	

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

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

	I_n	Mounting width	SD	Characteristic C Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG	SD	Characteristic D Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	MW ¹⁾	d						d					
	Miniature circuit breakers 1P, 480Y/277 V AC													
	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	--					
	Miniature circuit breakers 2P, 480Y/277 V AC													
	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

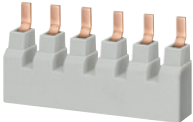
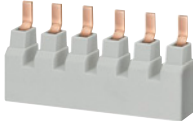
I_n	Mounting width	SD	Characteristic C				PU	PS	PG	SD	Characteristic D				PU	PS	PG
			Article No.	Price							Article No.	Price					
A	MW ¹⁾	d	www.siemens.com/ product?Article No.	per PU			(UNIT, SET, M)			d	www.siemens.com/ product?Article No.	per PU			(UNIT, SET, M)		
 Miniature circuit breakers 3P, 480Y/277 V AC																	
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.	Price	PU	PS	PG
	MW ¹⁾	d	www.siemens.com/ product?Article No.	per PU	(UNIT, SET, M)		
 Auxiliary switches (AS) acc. to UL 489 1 NO + 1 NC 2 NO 2 NC	0.5		5ST3010-0HG		1	1 unit	1AE
			5ST3011-0HG		1	1 unit	1AE
			5ST3012-0HG		1	1 unit	1AE
 Fault signal contacts (FC) acc. to UL 489 1 NO + 1 NC 2 NO 2 NC	0.5		5ST3020-0HG		1	1 unit	1AE
			5ST3021-0HG		1	1 unit	1AE
			5ST3022-0HG		1	1 unit	1AE
 Shunt trips (ST) acc. to UL 489 110 ... 480 V AC 24 ... 60 V AC/DC	1	▶	5ST3030-0HG		1	1 unit	1AE
			5ST3031-0HG		1	1 unit	1AE

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

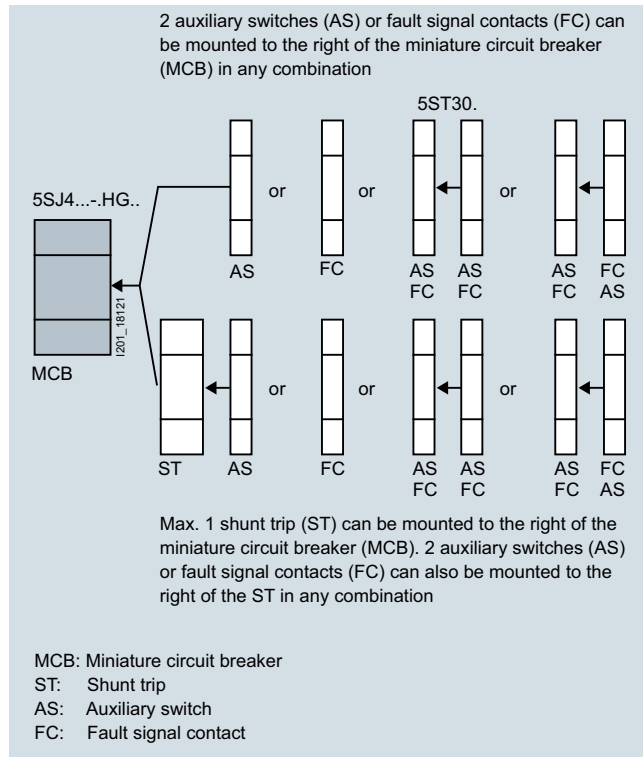
	Pin spacing	Length	SD	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	MW ¹⁾	mm	d					
Touch protection covers for busbars acc. to UL 489								
	Touch protection covers 3 × 1 pin			5ST3666-1HG		1	10 units	1AE
	Touch protection covers • Only for 5ST37...-3HG busbars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

¹⁾ 1 MW (modular width) = 18 mm.

More information

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

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

Miniature Circuit Breakers

SHU 5SP3 main miniature circuit breakers

Selection and ordering data

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

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

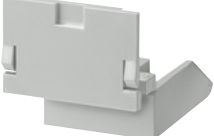
SHU 5SP3 main miniature circuit breakers

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

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

SHU 5SP3 main miniature circuit breakers

	I_n	Mounting width	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
	A	MW ¹⁾	d					
	Main miniature circuit breakers, 1P							
	For mounting on standard mounting rail, busbar (spacing: 40 mm, with 5ST1 busbar adapter), or for screw fixing							
	80			5SP3780		1	1 unit	1AE
	100			5SP3791		1	1 unit	1AE
	Main miniature circuit breakers, 3 x 1P							
	Premounted on 5ST1324 busbar adapter; can be clipped onto busbars (spacing: 40 mm); including three 5ST1323 transparent operating protective covers							
	80	6		5SP3780-1		1	1 set	1AE
	100			5SP3791-1		1	1 set	1AE
	Mounting plates							
	For mounting on standard mounting rails according to EN 50022							
	For 1 or 2 standard mounting rails, universal application, tier spacing 125 mm			▶ 5ST1322		1	10 units	1AE
	Busbar adapters for 5SP37.. and 5SP37..-1							
	Suitable for busbar spacing 40 mm can be equipped with 3 selective main miniature circuit breakers			5ST1328		1	1 unit	1AE
	Breaker blocking covers for 5SP37.. and 5SP37..-1							
	To prevent manual switching OFF			5ST1318		1	10 units	1AE
	Operating protective covers, transparent, for 5SP37.. and 5SP37..-1							
	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			5ST1323		1	3 units	1AE
	Terminal covers for 5SP37.. and 5SP37..-1							
	2 units required per device							
	Terminal covers in compliance with cladding dimensions acc. to DIN 43880			5ST1316		1	6 units	1AE

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

Notes

3

1. General standards

By using this catalog you can acquire hardware and software products described therein from Siemens AG subject to these conditions of sale and delivery (hereinafter: CSD). Please note: the scope, the quality and the conditions for supplies and services, including software products, by any Siemens group or Regional Company having a registered office outside of Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. These CSD apply exclusively for orders placed with Siemens AG, Germany.

1.1 For customers with a seat or registered office in Germany

For customers with a seat or registered office in Germany, the following shall be subordinate to these CSD

- for installation, the "Standard Terms and Conditions for Installation –Germany" and
- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services – for Customers in Germany"¹⁾ 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"¹⁾ and
- for other supplies and services, the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾.
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"¹⁾, 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"¹⁾ (only available in English) and
- for services, the "International Terms & Conditions for Services"¹⁾ supplemented by the "Software Licensing Conditions"¹⁾ and
- for the supply of other hardware and software the "International Terms & Conditions for Products"¹⁾ supplemented by the "Software Licensing Conditions"¹⁾.

1.3 For customers with framework agreements

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

2. Prices

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

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

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

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

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

An exact explanation of the metal factor can be found at: www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

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

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

3. Additional terms and conditions

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

Illustrations are not binding.

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

¹⁾ You can download the text of the Siemens AG terms and conditions of trade at www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

Appendix

Conditions of sale and delivery

4. Export regulations

We shall not be obligated to fulfill this agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions.

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

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

Please note that you can also preview the export designations in the respective product description via our "Industry Mall" online catalog system. The deciding factors, however, are the AL or ECCN export designations indicated on order confirmations, delivery notes and invoices.

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If required to conduct export control checks, you, at our request, shall promptly provide us with all information pertaining to particular end customers, destination and intended use of goods, works and services provided by us, as well as any relevant export control restrictions.

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