

Miniature Circuit Breakers



NEW

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

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

3VA2025-5HL36-0AA0

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

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

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
3/21	5SP4, high-current, 10000 A
3/22	5SY5, universal current, 10000 A
3/24	5SY7, 15000 A
3/27	5SY8, 25000 A
3/29	5SJ6...-KS miniature circuit breakers, with plug-in terminals
	5SY miniature circuit breakers, 1+N in 1 MW
3/32	Introduction
3/33	5SY30, 4500 A
3/34	5SY60, 6000 A
	Additional components
3/36	Electrical components
3/41	Mechanical components
	Busbars
3/44	5ST standard busbars
3/53	5ST3 busbars acc. to UL 508
3/57	5ST2 distribution blocks
3/61	SIKclip wiring system
3/63	5SJ4...-HG miniature circuit breakers acc. to UL 489 and IEC, and accessories
3/74	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
- Download
- FAQ
- Manual
- Product note
- Software archive
- Technical data

Miniature Circuit Breakers

Introduction

Overview

Devices	Page	Application	Standards
 <p>5SL miniature circuit breakers</p>	3/3	For all 0.3 to 63 A applications with B, C and D tripping characteristics with a rated breaking capacity of 4500 A, 6000 A und 10000 A acc. to EN 60898-1.	EN 60898-1
 <p>5SY and 5SP miniature circuit breakers</p>	3/13	For all applications from 0.3 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 to 63 A, Version 25 kA, acc. to EN 60947-2.	EN 60898-1/-2 EN 60947-2 UL 1077 CSA 22.2 GB 10963.1/2
 <p>5SJ6...-KS miniature circuit breakers, with plug-in terminals</p>	3/29	For socket outlet and lighting circuits in all building installations. The plug-in terminals offer easy front connection for manual insertion of conductors, which considerably reduces mounting times.	EN 60898-1
 <p>5SY miniature circuit breakers, 1+N in 1 MW</p>	3/32	For socket outlet and lighting circuits in all building installations where a switchable neutral conductor is required. The miniature circuit breaker 1+N saves space in the distribution board.	EN 60898-1
 <p>Additional components</p>	3/36	Auxiliary switches, fault signal contacts, shunt trips, undervoltage releases for higher system availability, RC units for personal safety and remote controlled mechanisms for remote switching.	
 <p>Busbars</p>	3/44	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
 <p>5SJ4...-HG miniature circuit breakers acc. to UL 489 and IEC, and accessories</p>	3/63	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 UL489, from 0.3 to 63 A.	UL 489
 <p>SHU 5SP3 main miniature circuit breakers</p>	3/74	Voltage-independent selective main miniature circuit breakers (SHU) in the precounter area support downstream miniature circuit breakers by providing better current limitation.	DIN VDE 0641-21

Overview

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

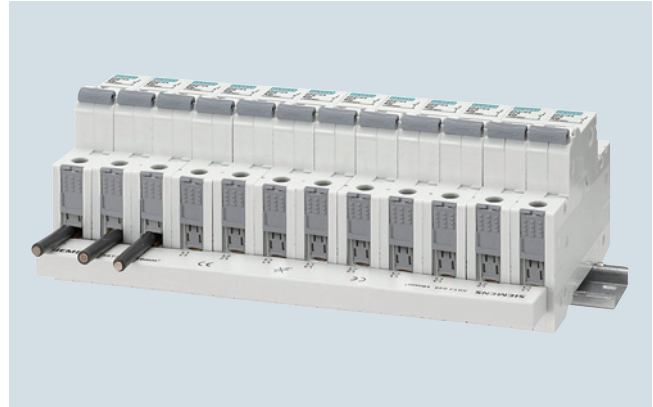
They are also suitable for the quick and easy mounting of additional components, such as auxiliary switches and fault signal contacts. The 5SL4 miniature circuit breakers can also be combined with shunt trips, undervoltage releases and arc fault detection devices.

To facilitate cable entry, the devices are equipped with rectangular terminals for the accommodation of pin busbars with cables up to 35 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.

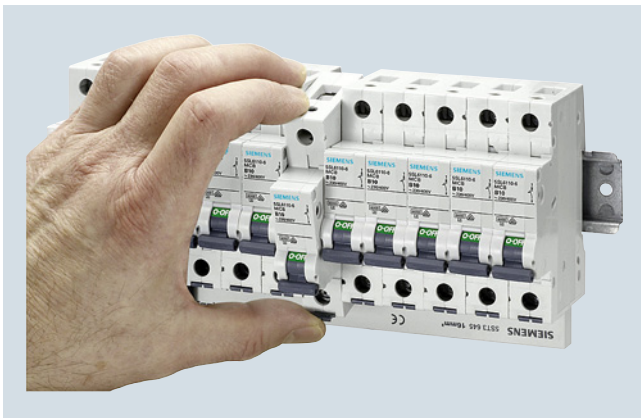
Benefits



- 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
• I_{cu} acc. to IEC/EN 60947-2	kA AC	4.5	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		IP20 with connected conductors, IP40 in the area of the handle with distribution cover	IP40 with connected conductors
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	
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.

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 A	DT	Characteristic B			Characteristic C			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
					Article No. www.siemens.com/ product?Article.No.	Price per PU	PG	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU				
Miniature circuit breakers 4500 A														
	1P, 230/400 V AC													
	0.3	1	--								1	1 unit	1AE	0.161
	0.5		--								1	1 unit	1AE	0.156
	1		--								1	1 unit	1AE	0.158
	1.6		--								1	1 unit	1AE	0.160
	2		--								1	1 unit	1AE	0.133
	3		--								1	1 unit	1AE	0.133
	4		--								1	1 unit	1AE	0.133
	6		5SL3106-6					1AE			1	1 unit	1AE	0.132
	8		--								1	1 unit	1AE	0.132
	10		5SL3110-6					1AE			1	1 unit	1AE	0.129
	13		5SL3113-6					1AE			1	1 unit	1AE	0.131
	16		5SL3116-6					1AE			1	1 unit	1AE	0.120
	20		5SL3120-6					1AE			1	1 unit	1AE	0.129
25		5SL3125-6					1AE			1	1 unit	1AE	0.132	
32		5SL3132-6					1AE			1	1 unit	1AE	0.160	
40		5SL3140-6					1AE			1	1 unit	1AE	0.162	
50		5SL3150-6					1AE			1	1 unit	1AE	0.169	
63		5SL3163-6					1AE			1	1 unit	1AE	0.169	
	1P+N, 230 V AC													
	0.3	2	--								1	1 unit	1AE	0.309
	0.5		--								1	1 unit	1AE	0.308
	1		--								1	1 unit	1AE	0.307
	1.6		--								1	1 unit	1AE	0.279
	2		--								1	1 unit	1AE	0.234
	3		--								1	1 unit	1AE	0.234
	4		--								1	1 unit	1AE	0.234
	6		5SL3506-6					1AE			1	1 unit	1AE	0.231
	8		--								1	1 unit	1AE	0.330
	10		5SL3510-6					1AE			1	1/6 units	1AE	0.224
	13		5SL3513-6					1AE			1	1 unit	1AE	0.228
	16		5SL3516-6					1AE			1	1/6 units	1AE	0.222
	20		5SL3520-6					1AE			1	1 unit	1AE	0.228
25		5SL3525-6					1AE			1	1 unit	1AE	0.251	
32		5SL3532-6					1AE			1	1 unit	1AE	0.309	
40		5SL3540-6					1AE			1	1 unit	1AE	0.288	
50		5SL3550-6					1AE			1	1 unit	1AE	0.295	
63		5SL3563-6					1AE			1	1 unit	1AE	0.291	
	2P, 400 V AC													
	0.3	2	--								1	1 unit	1AE	0.312
	0.5		--								1	1 unit	1AE	0.308
	1		--								1	1 unit	1AE	0.305
	1.6		--								1	1 unit	1AE	0.330
	2		--								1	1 unit	1AE	0.256
	3		--								1	1 unit	1AE	0.254
	4		--								1	1 unit	1AE	0.252
	6		5SL3206-6					1AE			1	1 unit	1AE	0.251
	8		--								1	1 unit	1AE	0.330
	10		5SL3210-6					1AE			1	1 unit	1AE	0.250
	13		5SL3213-6					1AE			1	1 unit	1AE	0.250
	16		5SL3216-6					1AE			1	1 unit	1AE	0.241
	20		5SL3220-6					1AE			1	1 unit	1AE	0.239
25		5SL3225-6					1AE			1	1 unit	1AE	0.252	
32		5SL3232-6					1AE			1	1 unit	1AE	0.310	
40		5SL3240-6					1AE			1	1 unit	1AE	0.314	
50		5SL3250-6					1AE			1	1 unit	1AE	0.325	
63		5SL3263-6					1AE			1	1 unit	1AE	0.329	

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers





5SL Miniature Circuit Breakers

5SL3, 4500 A

4500		I_n	Mounting width	DT	Characteristic B			Characteristic C			PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
3					Article No. www.siemens.com/product?Article.No.	Price per PU	PG	DT	Article No. www.siemens.com/product?Article.No.	Price per PU				
A		MW ¹⁾												
Miniature circuit breakers 4500 A														
	3P, 400 V AC													
	1	--					5SL3301-7			1	1 unit	1AE	0.378	
	2	--					5SL3302-7			1	1 unit	1AE	0.377	
	3	--					5SL3303-7			1	1 unit	1AE	0.373	
	4	--					5SL3304-7			1	1 unit	1AE	0.371	
	6	5SL3306-6			1AE		5SL3306-7			1	1 unit	1AE	0.371	
	10	5SL3310-6			1AE		5SL3310-7			1	1 unit	1AE	0.368	
	16	5SL3316-6			1AE		5SL3316-7			1	1 unit	1AE	0.365	
	20	5SL3320-6			1AE		5SL3320-7			1	1 unit	1AE	0.371	
	25	5SL3325-6			1AE		5SL3325-7			1	1 unit	1AE	0.372	
	32	5SL3332-6			1AE		5SL3332-7			1	1 unit	1AE	0.457	
	40	5SL3340-6			1AE		5SL3340-7			1	1 unit	1AE	0.468	
	50	5SL3350-6			1AE		5SL3350-7			1	1 unit	1AE	0.480	
63	5SL3363-6			1AE		5SL3363-7			1	1 unit	1AE	0.485		
	3P+N, 400 V AC													
	1	--					5SL3601-7			1	1 unit	1AE	0.660	
	2	--					5SL3602-7			1	1 unit	1AE	0.581	
	3	--					5SL3603-7			1	1 unit	1AE	0.660	
	4	--					5SL3604-7			1	1 unit	1AE	0.660	
	6	5SL3606-6			1AE		5SL3606-7			1	1 unit	1AE	0.660	
	8	--					5SL3608-7			1	1 unit	1AE	0.660	
	10	5SL3610-6			1AE		5SL3610-7			1	1 unit	1AE	0.609	
	13	5SL3613-6			1AE		5SL3613-7			1	1 unit	1AE	0.660	
	16	5SL3616-6			1AE		5SL3616-7			1	1 unit	1AE	0.557	
	20	5SL3620-6			1AE		5SL3620-7			1	1 unit	1AE	0.575	
	25	5SL3625-6			1AE		5SL3625-7			1	1 unit	1AE	0.567	
	32	5SL3632-6			1AE		5SL3632-7			1	1 unit	1AE	0.609	
40	5SL3640-6			1AE		5SL3640-7			1	1 unit	1AE	0.588		
50	5SL3650-6			1AE		5SL3650-7			1	1 unit	1AE	0.607		
63	5SL3663-6			1AE		5SL3663-7			1	1 unit	1AE	0.646		
	4P, 400 V AC													
	1	--					5SL3401-7			1	1 unit	1AE	0.660	
	2	--					5SL3402-7			1	1 unit	1AE	0.660	
	3	--					5SL3403-7			1	1 unit	1AE	0.660	
	4	--					5SL3404-7			1	1 unit	1AE	0.660	
	6	--					5SL3406-7			1	1 unit	1AE	0.501	
	10	--					5SL3410-7			1	1 unit	1AE	0.489	
	13	--					5SL3413-7			1	1 unit	1AE	0.490	
	16	--					5SL3416-7			1	1 unit	1AE	0.479	
	20	--					5SL3420-7			1	1 unit	1AE	0.491	
	25	--					5SL3425-7			1	1 unit	1AE	0.500	
	32	--					5SL3432-7			1	1 unit	1AE	0.609	
	40	--					5SL3440-7			1	1 unit	1AE	0.616	
50	--					5SL3450-7			1	1 unit	1AE	0.640		
63	--					5SL3463-7			1	1 unit	1AE	0.630		

¹⁾ 1 MW (modular width) = 18 mm.

Selection and ordering data





6000 3		I_n	Mounting width	DT	Characteristic B		Characteristic C		PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
					Article No. www.siemens.com/product?Article No.	Price per PU	PG	DT				
Miniature circuit breakers 6000 A												
	1P, 230/400 V AC											
	0.3	1	--					5SL6114-7	1	1/120 units	1AC	0.165
	0.5		--					5SL6105-7	1	1/120 units	1AC	0.159
	1		--					5SL6101-7	1	1/120 units	1AC	0.148
	1.6		--					5SL6115-7	1	1/120 units	1AC	0.156
	2		--					5SL6102-7	1	1/120 units	1AC	0.125
	3		--					5SL6103-7	1	1/120 units	1AC	0.132
	4		--					5SL6104-7	1	1/120 units	1AC	0.124
	6		5SL6106-6			1AB		5SL6106-7	1	1/120 units	1AC	0.132
	8		--					5SL6108-7	1	1/120 units	1AC	0.133
	10		5SL6110-6			1AB		5SL6110-7	1	1/120 units	1AC	0.131
	13		5SL6113-6			1AB		5SL6113-7	1	1/120 units	1AC	0.121
	16		5SL6116-6			1AB		5SL6116-7	1	1/120 units	1AC	0.121
	20		5SL6120-6			1AB		5SL6120-7	1	1/120 units	1AC	0.121
	25		5SL6125-6			1AB		5SL6125-7	1	1/120 units	1AC	0.123
	32		5SL6132-6			1AB		5SL6132-7	1	1/120 units	1AC	0.151
	40		5SL6140-6			1AB		5SL6140-7	1	1/120 units	1AC	0.163
50		5SL6150-6			1AB		5SL6150-7	1	1/120 units	1AC	0.160	
63		5SL6163-6			1AB		5SL6163-7	1	1/120 units	1AC	0.160	
	1P+N, 230 V AC											
	0.3	2	--					5SL6514-7	1	1/60 units	1AC	0.287
	0.5		--					5SL6505-7	1	1/60 units	1AC	0.308
	1		--					5SL6501-7	1	1/60 units	1AC	0.280
	1.6		--					5SL6515-7	1	1/60 units	1AC	0.308
	2		--					5SL6502-7	1	1/60 units	1AC	0.234
	3		--					5SL6503-7	1	1/60 units	1AC	0.234
	4		--					5SL6504-7	1	1/60 units	1AC	0.235
	6		5SL6506-6			1AB		5SL6506-7	1	1/60 units	1AC	0.226
	8		--					5SL6508-7	1	1/60 units	1AC	0.235
	10		5SL6510-6			1AB		5SL6510-7	1	1/60 units	1AC	0.222
	13		5SL6513-6			1AB		5SL6513-7	1	1/60 units	1AC	0.221
	16		5SL6516-6			1AB		5SL6516-7	1	1/60 units	1AC	0.228
	20		5SL6520-6			1AB		5SL6520-7	1	1/60 units	1AC	0.228
	25		5SL6525-6			1AB		5SL6525-7	1	1/60 units	1AC	0.251
	32		5SL6532-6			1AB		5SL6532-7	1	1/60 units	1AC	0.309
	40		5SL6540-6			1AB		5SL6540-7	1	1/60 units	1AC	0.314
50		5SL6550-6			1AB		5SL6550-7	1	1/60 units	1AC	0.325	
63		5SL6563-6			1AB		5SL6563-7	1	1/60 units	1AC	0.325	
	2P, 400 V AC											
	0.3	2	--					5SL6214-7	1	1/60 units	1AC	0.309
	0.5		--					5SL6205-7	1	1/60 units	1AC	0.307
	1		--					5SL6201-7	1	1/60 units	1AC	0.307
	1.6		--					5SL6215-7	1	1/60 units	1AC	0.304
	2		--					5SL6202-7	1	1/60 units	1AC	0.248
	3		--					5SL6203-7	1	1/60 units	1AC	0.246
	4		--					5SL6204-7	1	1/60 units	1AC	0.254
	6		5SL6206-6			1AB		5SL6206-7	1	1/60 units	1AC	0.246
	8		--					5SL6208-7	1	1/60 units	1AC	0.255
	10		5SL6210-6			1AB		5SL6210-7	1	1/60 units	1AC	0.243
	13		5SL6213-6			1AB		5SL6213-7	1	1/60 units	1AC	0.249
	16		5SL6216-6			1AB		5SL6216-7	1	1/60 units	1AC	0.240
	20		5SL6220-6			1AB		5SL6220-7	1	1/60 units	1AC	0.240
	25		5SL6225-6			1AB		5SL6225-7	1	1/60 units	1AC	0.246
	32		5SL6232-6			1AB		5SL6232-7	1	1/60 units	1AC	0.303
	40		5SL6240-6			1AB		5SL6240-7	1	1/60 units	1AC	0.314
50		5SL6250-6			1AB		5SL6250-7	1	1/60 units	1AC	0.328	
63		5SL6263-6			1AB		5SL6263-7	1	1/60 units	1AC	0.327	

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

5SL Miniature Circuit Breakers

5SL6, 6000 A

6000 3			I_n	Mounting width	DT	Characteristic B Article No. www.siemens.com/product?Article.No.	Price per PU	PG DT	Characteristic C Article No. www.siemens.com/product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
A				MW ¹⁾										kg
Miniature circuit breakers 6000 A														
3P, 400 V AC														
	0.3		3		--				5SL6314-7		1	1/40 units	1AC	0.458
	0.5				--				5SL6305-7		1	1/40 units	1AC	0.448
	1				--				5SL6301-7		1	1/40 units	1AC	0.449
	1.6				--				5SL6315-7		1	1/40 units	1AC	0.445
	2				--				5SL6302-7		1	1/40 units	1AC	0.375
	3				--				5SL6303-7		1	1/40 units	1AC	0.375
	4				--				5SL6304-7		1	1/40 units	1AC	0.375
	6					5SL6306-6		1AB	5SL6306-7		1	1/40 units	1AC	0.372
	8					--			5SL6308-7		1	1/40 units	1AC	0.376
	10					5SL6310-6		1AB	5SL6310-7		1	1/40 units	1AC	0.366
	13					5SL6313-6		1AB	5SL6313-7		1	1/40 units	1AC	0.370
	16					5SL6316-6		1AB	5SL6316-7		1	1/40 units	1AC	0.360
	20					5SL6320-6		1AB	5SL6320-7		1	1/40 units	1AC	0.363
	25					5SL6325-6		1AB	5SL6325-7		1	1/40 units	1AC	0.365
32					5SL6332-6		1AB	5SL6332-7		1	1/40 units	1AC	0.452	
40					5SL6340-6		1AB	5SL6340-7		1	1/40 units	1AC	0.461	
50					5SL6350-6		1AB	5SL6350-7		1	1/40 units	1AC	0.479	
63					5SL6363-6		1AB	5SL6363-7		1	1/40 units	1AC	0.480	
3P+N, 400 V AC														
	0.3		4		--				5SL6614-7		1	1/30 units	1AC	0.585
	0.5				--				5SL6605-7		1	1/30 units	1AC	0.604
	1				--				5SL6601-7		1	1/30 units	1AC	0.601
	1.6				--				5SL6615-7		1	1/30 units	1AC	0.580
	2				--				5SL6602-7		1	1/30 units	1AC	0.580
	3				--				5SL6603-7		1	1/30 units	1AC	0.566
	4				--				5SL6604-7		1	1/30 units	1AC	0.564
	6					5SL6606-6		1AB	5SL6606-7		1	1/30 units	1AC	0.604
	8					--			5SL6608-7		1	1/30 units	1AC	0.563
	10					5SL6610-6		1AB	5SL6610-7		1	1/30 units	1AC	0.611
	13					5SL6613-6		1AB	5SL6613-7		1	1/30 units	1AC	0.598
	16					5SL6616-6		1AB	5SL6616-7		1	1/30 units	1AC	0.607
	20					5SL6620-6		1AB	5SL6620-7		1	1/30 units	1AC	0.607
	25					5SL6625-6		1AB	5SL6625-7		1	1/30 units	1AC	0.605
32					5SL6632-6		1AB	5SL6632-7		1	1/30 units	1AC	0.606	
40					5SL6640-6		1AB	5SL6640-7		1	1/30 units	1AC	0.617	
50					5SL6650-6		1AB	5SL6650-7		1	1/30 units	1AC	0.642	
63					5SL6663-6		1AB	5SL6663-7		1	1/30 units	1AC	0.645	
4P, 400 V AC														
	0.3		4		--				5SL6414-7		1	1/30 units	1AC	0.611
	0.5				--				5SL6405-7		1	1/30 units	1AC	0.612
	1				--				5SL6401-7		1	1/30 units	1AC	0.594
	1.6				--				5SL6415-7		1	1/30 units	1AC	0.660
	2				--				5SL6402-7		1	1/30 units	1AC	0.580
	3				--				5SL6403-7		1	1/30 units	1AC	0.499
	4				--				5SL6404-7		1	1/30 units	1AC	0.492
	6					5SL6406-6		1AB	5SL6406-7		1	1/30 units	1AC	0.496
	8					--			5SL6408-7		1	1/30 units	1AC	0.499
	10					5SL6410-6		1AB	5SL6410-7		1	1/30 units	1AC	0.488
	13					5SL6413-6		1AB	5SL6413-7		1	1/30 units	1AC	0.488
	16					5SL6416-6		1AB	5SL6416-7		1	1/30 units	1AC	0.480
	20					5SL6420-6		1AB	5SL6420-7		1	1/30 units	1AC	0.478
	25					5SL6425-6		1AB	5SL6425-7		1	1/30 units	1AC	0.492
32					5SL6432-6		1AB	5SL6432-7		1	1/30 units	1AC	0.609	
40					5SL6440-6		1AB	5SL6440-7		1	1/30 units	1AC	0.614	
50					5SL6450-6		1AB	5SL6450-7		1	1/30 units	1AC	0.642	
63					5SL6463-6		1AB	5SL6463-7		1	1/30 units	1AC	0.645	





¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

5SL Miniature Circuit Breakers

5SL4, 10000 A

Selection and ordering data





10000 3		 I_n	Mounting width	DT	Characteristic B Article No. www.siemens.com/ product?Article No.	Price per PU	PG	DT	Characteristic C Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS/ P. unit	PG	Weight per PU approx.
A			MW ¹⁾											kg
Miniature circuit breakers 10000 A														
1P, 230/400 V AC														
	0.3	1	--						5SL4114-7		1	1/120 units	1AC	0.165
	0.5		--						5SL4105-7		1	1/120 units	1AC	0.159
	1		5SL4101-6				1AB		5SL4101-7		1	1/120 units	1AC	0.150
	1.6		--						5SL4115-7		1	1/120 units	1AC	0.159
	2		5SL4102-6				1AB		5SL4102-7		1	1/120 units	1AC	0.153
	3		5SL4103-6				1AB		5SL4103-7		1	1/120 units	1AC	0.161
	4		5SL4104-6				1AB		5SL4104-7		1	1/120 units	1AC	0.151
	6		5SL4106-6				1AB		5SL4106-7		1	1/120 units	1AC	0.152
	8		5SL4108-6				1AB		5SL4108-7		1	1/120 units	1AC	0.161
	10		5SL4110-6		▶		1AB		5SL4110-7		1	1/120 units	1AC	0.152
	13		5SL4113-6				1AB		5SL4113-7		1	1/120 units	1AC	0.150
	16		5SL4116-6		▶		1AB	▶	5SL4116-7		1	1/120 units	1AC	0.153
	20		5SL4120-6				1AB		5SL4120-7		1	1/120 units	1AC	0.161
	25		5SL4125-6				1AB		5SL4125-7		1	1/120 units	1AC	0.162
32		5SL4132-6				1AB		5SL4132-7		1	1/120 units	1AC	0.161	
40		5SL4140-6				1AB		5SL4140-7		1	1/120 units	1AC	0.165	
50		5SL4150-6				1AB		5SL4150-7		1	1/120 units	1AC	0.170	
63		5SL4163-6				1AB		5SL4163-7		1	1/120 units	1AC	0.170	
1P+N, 230 V AC														
	0.3	2	--						5SL4514-7		1	1/60 units	1AC	0.330
	0.5		--						5SL4505-7		1	1/60 units	1AC	0.305
	1		5SL4501-6				1AB		5SL4501-7		1	1/60 units	1AC	0.305
	1.6		--						5SL4515-7		1	1/60 units	1AC	0.330
	2		5SL4502-6				1AB		5SL4502-7		1	1/60 units	1AC	0.306
	3		5SL4503-6				1AB		5SL4503-7		1	1/60 units	1AC	0.306
	4		5SL4504-6				1AB		5SL4504-7		1	1/60 units	1AC	0.306
	6		5SL4506-6				1AB		5SL4506-7		1	1/60 units	1AC	0.305
	8		5SL4508-6				1AB		5SL4508-7		1	1/60 units	1AC	0.330
	10		5SL4510-6				1AB	▶	5SL4510-7		1	1/60 units	1AC	0.307
	13		5SL4513-6				1AB		5SL4513-7		1	1/60 units	1AC	0.304
	16		5SL4516-6				1AB		5SL4516-7		1	1/60 units	1AC	0.310
	20		5SL4520-6				1AB		5SL4520-7		1	1/60 units	1AC	0.312
	25		5SL4525-6				1AB		5SL4525-7		1	1/60 units	1AC	0.313
32		5SL4532-6				1AB		5SL4532-7		1	1/60 units	1AC	0.311	
40		5SL4540-6				1AB		5SL4540-7		1	1/60 units	1AC	0.313	
50		5SL4550-6				1AB		5SL4550-7		1	1/60 units	1AC	0.330	
63		5SL4563-6				1AB		5SL4563-7		1	1/60 units	1AC	0.330	
2P, 400 V AC														
	0.3	2	--						5SL4214-7		1	1/60 units	1AC	0.313
	0.5		--						5SL4205-7		1	1/60 units	1AC	0.308
	1		5SL4201-6				1AB		5SL4201-7		1	1/60 units	1AC	0.305
	1.6		--						5SL4215-7		1	1/60 units	1AC	0.307
	2		5SL4202-6				1AB		5SL4202-7		1	1/60 units	1AC	0.311
	3		5SL4203-6				1AB		5SL4203-7		1	1/60 units	1AC	0.312
	4		5SL4204-6				1AB		5SL4204-7		1	1/60 units	1AC	0.310
	6		5SL4206-6				1AB		5SL4206-7		1	1/60 units	1AC	0.309
	8		5SL4208-6				1AB		5SL4208-7		1	1/60 units	1AC	0.313
	10		5SL4210-6				1AB		5SL4210-7		1	1/60 units	1AC	0.311
	13		5SL4213-6				1AB		5SL4213-7		1	1/60 units	1AC	0.305
	16		5SL4216-6				1AB		5SL4216-7		1	1/60 units	1AC	0.312
	20		5SL4220-6				1AB		5SL4220-7		1	1/60 units	1AC	0.312
	25		5SL4225-6				1AB		5SL4225-7		1	1/60 units	1AC	0.313
32		5SL4232-6				1AB		5SL4232-7		1	1/60 units	1AC	0.311	
40		5SL4240-6				1AB		5SL4240-7		1	1/60 units	1AC	0.315	
50		5SL4250-6				1AB		5SL4250-7		1	1/60 units	1AC	0.330	
63		5SL4263-6				1AB		5SL4263-7		1	1/60 units	1AC	0.330	

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

5SL Miniature Circuit Breakers

5SL4, 10000 A





10000 3		I_n	Mounting width MW ¹⁾	DT	Characteristic B		Price per PU	PG	DT	Characteristic C		Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
					Article No. www.siemens.com/product?Article.No.	Article No. www.siemens.com/product?Article.No.										
Miniature circuit breakers 10000 A																
3P, 400 V AC																
		0.3	3	--							5SL4314-7	1	1/40 units	1AC	0.465	
		0.5		--							5SL4305-7	1	1/40 units	1AC	0.465	
		1		5SL4301-6				1AB			5SL4301-7	1	1/40 units	1AC	0.465	
		1.6		--							5SL4315-7	1	1/40 units	1AC	0.465	
		2		5SL4302-6				1AB			5SL4302-7	1	1/40 units	1AC	0.463	
		3		5SL4303-6				1AB			5SL4303-7	1	1/40 units	1AC	0.465	
		4		5SL4304-6				1AB			5SL4304-7	1	1/40 units	1AC	0.458	
		6		5SL4306-6				1AB			5SL4306-7	1	1/40 units	1AC	0.461	
		8		5SL4308-6				1AB			5SL4308-7	1	1/40 units	1AC	0.465	
		10		5SL4310-6				1AB			5SL4310-7	1	1/40 units	1AC	0.463	
		13		5SL4313-6				1AB			5SL4313-7	1	1/40 units	1AC	0.452	
		16		5SL4316-6				1AB			5SL4316-7	1	1/40 units	1AC	0.460	
		20		5SL4320-6				1AB			5SL4320-7	1	1/40 units	1AC	0.463	
		25		5SL4325-6				1AB			5SL4325-7	1	1/40 units	1AC	0.463	
		32		5SL4332-6				1AB			5SL4332-7	1	1/40 units	1AC	0.456	
		40		5SL4340-6				1AB			5SL4340-7	1	1/40 units	1AC	0.467	
		50		5SL4350-6				1AB			5SL4350-7	1	1/40 units	1AC	0.489	
		63		5SL4363-6				1AB			5SL4363-7	1	1/40 units	1AC	0.489	
3P+N, 400 V AC																
		0.3	4	--							5SL4614-7	1	1/30 units	1AC	0.609	
		0.5		--							5SL4605-7	1	1/30 units	1AC	0.660	
		1		5SL4601-6				1AB			5SL4601-7	1	1/30 units	1AC	0.660	
		1.6		--							5SL4615-7	1	1/30 units	1AC	0.660	
		2		5SL4602-6				1AB			5SL4602-7	1	1/30 units	1AC	0.607	
		3		5SL4603-6				1AB			5SL4603-7	1	1/30 units	1AC	0.660	
		4		5SL4604-6				1AB			5SL4604-7	1	1/30 units	1AC	0.660	
		6		5SL4606-6				1AB			5SL4606-7	1	1/30 units	1AC	0.608	
		8		5SL4608-6				1AB			5SL4608-7	1	1/30 units	1AC	0.608	
		10		5SL4610-6				1AB			5SL4610-7	1	1/30 units	1AC	0.607	
		13		5SL4613-6				1AB			5SL4613-7	1	1/30 units	1AC	0.598	
		16		5SL4616-6				1AB			5SL4616-7	1	1/30 units	1AC	0.616	
		20		5SL4620-6				1AB			5SL4620-7	1	1/30 units	1AC	0.614	
		25		5SL4625-6				1AB			5SL4625-7	1	1/30 units	1AC	0.613	
		32		5SL4632-6				1AB			5SL4632-7	1	1/30 units	1AC	0.610	
		40		5SL4640-6				1AB			5SL4640-7	1	1/30 units	1AC	0.616	
		50		5SL4650-6				1AB			5SL4650-7	1	1/30 units	1AC	0.647	
		63		5SL4663-6				1AB			5SL4663-7	1	1/30 units	1AC	0.649	
4P, 400 V AC																
		0.3	4	--							5SL4414-7	1	1/30 units	1AC	0.660	
		0.5		--							5SL4405-7	1	1/30 units	1AC	0.660	
		1		5SL4401-6				1AB			5SL4401-7	1	1/30 units	1AC	0.605	
		1.6		--							5SL4415-7	1	1/30 units	1AC	0.660	
		2		5SL4402-6				1AB			5SL4402-7	1	1/30 units	1AC	0.613	
		3		5SL4403-6				1AB			5SL4403-7	1	1/30 units	1AC	0.615	
		4		5SL4404-6				1AB			5SL4404-7	1	1/30 units	1AC	0.610	
		6		5SL4406-6				1AB			5SL4406-7	1	1/30 units	1AC	0.611	
		8		5SL4408-6				1AB			5SL4408-7	1	1/30 units	1AC	0.660	
		10		5SL4410-6				1AB			5SL4410-7	1	1/30 units	1AC	0.614	
		13		5SL4413-6				1AB			5SL4413-7	1	1/30 units	1AC	0.603	
		16		5SL4416-6				1AB			5SL4416-7	1	1/30 units	1AC	0.614	
		20		5SL4420-6				1AB			5SL4420-7	1	1/30 units	1AC	0.614	
		25		5SL4425-6				1AB			5SL4425-7	1	1/30 units	1AC	0.614	
		32		5SL4432-6				1AB			5SL4432-7	1	1/30 units	1AC	0.605	
		40		5SL4440-6				1AB			5SL4440-7	1	1/30 units	1AC	0.619	
		50		5SL4450-6				1AB			5SL4450-7	1	1/30 units	1AC	0.646	
		63		5SL4463-6				1AB			5SL4463-7	1	1/30 units	1AC	0.650	

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

5SL Miniature Circuit Breakers

5SL4, 10000 A





10000 3		I_n	Mounting width	DT	Characteristic D Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.				
											A	MW ¹⁾	kg	
Miniature circuit breakers 10000 A														
	1P, 230/400 V AC		1											
	0.3	5SL4114-8									1	1/120 units	1AA	0.165
	0.5	5SL4105-8									1	1/120 units	1AA	0.165
	1	5SL4101-8									1	1/120 units	1AA	0.159
	1.6	5SL4115-8									1	1/120 units	1AA	0.165
	2	5SL4102-8									1	1/120 units	1AA	0.159
	3	5SL4103-8									1	1/120 units	1AA	0.165
	4	5SL4104-8									1	1/120 units	1AA	0.160
	6	5SL4106-8									1	1/120 units	1AA	0.165
	8	5SL4108-8									1	1/120 units	1AA	0.158
	10	5SL4110-8									1	1/120 units	1AA	0.157
	13	5SL4113-8									1	1/120 units	1AA	0.158
	16	5SL4116-8									1	1/120 units	1AA	0.160
	20	5SL4120-8									1	1/120 units	1AA	0.160
	25	5SL4125-8									1	1/120 units	1AA	0.165
	32	5SL4132-8									1	1/120 units	1AA	0.165
	40	5SL4140-8									1	1/120 units	1AA	0.165
50	5SL4150-8	1	1/120 units	1AA	0.171									
63	5SL4163-8	1	1/120 units	1AA	0.165									
	1P+N, 230 V AC		2											
	0.3	5SL4514-8									1	1/60 units	1AA	0.330
	0.5	5SL4505-8									1	1/60 units	1AA	0.330
	1	5SL4501-8									1	1/60 units	1AA	0.303
	1.6	5SL4515-8									1	1/60 units	1AA	0.330
	2	5SL4502-8									1	1/60 units	1AA	0.306
	3	5SL4503-8									1	1/60 units	1AA	0.305
	4	5SL4504-8									1	1/60 units	1AA	0.310
	6	5SL4506-8									1	1/60 units	1AA	0.308
	8	5SL4508-8									1	1/60 units	1AA	0.303
	10	5SL4510-8									1	1/60 units	1AA	0.302
	13	5SL4513-8									1	1/60 units	1AA	0.330
	16	5SL4516-8									1	1/60 units	1AA	0.312
	20	5SL4520-8									1	1/60 units	1AA	0.312
	25	5SL4525-8									1	1/60 units	1AA	0.311
	32	5SL4532-8									1	1/60 units	1AA	0.313
	40	5SL4540-8									1	1/60 units	1AA	0.312
50	5SL4550-8	1	1/60 units	1AA	0.329									
63	5SL4563-8	1	1/60 units	1AA	0.330									
	2P, 400 V AC		2											
	0.3	5SL4214-8									1	1/60 units	1AA	0.330
	0.5	5SL4205-8									1	1/60 units	1AA	0.296
	1	5SL4201-8									1	1/60 units	1AA	0.308
	1.6	5SL4215-8									1	1/60 units	1AA	0.311
	2	5SL4202-8									1	1/60 units	1AA	0.310
	3	5SL4203-8									1	1/60 units	1AA	0.303
	4	5SL4204-8									1	1/60 units	1AA	0.310
	6	5SL4206-8									1	1/60 units	1AA	0.313
	8	5SL4208-8									1	1/60 units	1AA	0.305
	10	5SL4210-8									1	1/60 units	1AA	0.300
	13	5SL4213-8									1	1/60 units	1AA	0.302
	16	5SL4216-8									1	1/60 units	1AA	0.309
	20	5SL4220-8									1	1/60 units	1AA	0.309
	25	5SL4225-8									1	1/60 units	1AA	0.310
	32	5SL4232-8									1	1/60 units	1AA	0.313
	40	5SL4240-8									1	1/60 units	1AA	0.315
50	5SL4250-8	1	1/60 units	1AA	0.330									
63	5SL4263-8	1	1/60 units	1AA	0.330									

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

Miniature Circuit Breakers

5SL Miniature Circuit Breakers

5SL4, 10000 A

10000 3		I_n	Mounting width	DT	Characteristic D Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
Miniature circuit breakers 10000 A										
		3P, 400 V AC		3						
	0.3				5SL4314-8	1	1/40 units	1AA	0.462	
	0.5				5SL4305-8	1	1/40 units	1AA	0.465	
	1				5SL4301-8	1	1/40 units	1AA	0.465	
	1.6				5SL4315-8	1	1/40 units	1AA	0.465	
	2				5SL4302-8	1	1/40 units	1AA	0.465	
	3				5SL4303-8	1	1/40 units	1AA	0.465	
	4				5SL4304-8	1	1/40 units	1AA	0.457	
	6				5SL4306-8	1	1/40 units	1AA	0.465	
	8				5SL4308-8	1	1/40 units	1AA	0.454	
	10				5SL4310-8	1	1/40 units	1AA	0.449	
	13				5SL4313-8	1	1/40 units	1AA	0.449	
	16				5SL4316-8	1	1/40 units	1AA	0.465	
	20				5SL4320-8	1	1/40 units	1AA	0.465	
	25				5SL4325-8	1	1/40 units	1AA	0.465	
32			5SL4332-8	1	1/40 units	1AA	0.465			
40			5SL4340-8	1	1/40 units	1AA	0.465			
50			5SL4350-8	1	1/40 units	1AA	0.489			
63			5SL4363-8	1	1/40 units	1AA	0.490			
		3P+N, 400 V AC		4						
	0.3				5SL4614-8	1	1/30 units	1AA	0.660	
	0.5				5SL4605-8	1	1/30 units	1AA	0.660	
	1				5SL4601-8	1	1/30 units	1AA	0.660	
	1.6				5SL4615-8	1	1/30 units	1AA	0.660	
	2				5SL4602-8	1	1/30 units	1AA	0.660	
	3				5SL4603-8	1	1/30 units	1AA	0.660	
	4				5SL4604-8	1	1/30 units	1AA	0.607	
	6				5SL4606-8	1	1/30 units	1AA	0.660	
	8				5SL4608-8	1	1/30 units	1AA	0.660	
	10				5SL4610-8	1	1/30 units	1AA	0.595	
	13				5SL4613-8	1	1/30 units	1AA	0.660	
	16				5SL4616-8	1	1/30 units	1AA	0.610	
	20				5SL4620-8	1	1/30 units	1AA	0.610	
	25				5SL4625-8	1	1/30 units	1AA	0.612	
32			5SL4632-8	1	1/30 units	1AA	0.616			
40			5SL4640-8	1	1/30 units	1AA	0.617			
50			5SL4650-8	1	1/30 units	1AA	0.660			
63			5SL4663-8	1	1/30 units	1AA	0.660			
		4P, 400 V AC		4						
	0.3				5SL4414-8	1	1/30 units	1AA	0.660	
	0.5				5SL4405-8	1	1/30 units	1AA	0.660	
	1				5SL4401-8	1	1/30 units	1AA	0.603	
	1.6				5SL4415-8	1	1/30 units	1AA	0.660	
	2				5SL4402-8	1	1/30 units	1AA	0.660	
	3				5SL4403-8	1	1/30 units	1AA	0.660	
	4				5SL4404-8	1	1/30 units	1AA	0.611	
	6				5SL4406-8	1	1/30 units	1AA	0.615	
	8				5SL4408-8	1	1/30 units	1AA	0.600	
	10				5SL4410-8	1	1/30 units	1AA	0.596	
	13				5SL4413-8	1	1/30 units	1AA	0.660	
	16				5SL4416-8	1	1/30 units	1AA	0.609	
	20				5SL4420-8	1	1/30 units	1AA	0.610	
	25				5SL4425-8	1	1/30 units	1AA	0.610	
32			5SL4432-8	1	1/30 units	1AA	0.616			
40			5SL4440-8	1	1/30 units	1AA	0.618			
50			5SL4450-8	1	1/30 units	1AA	0.649			
63			5SL4463-8	1	1/30 units	1AA	0.649			

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 mechanism, 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.

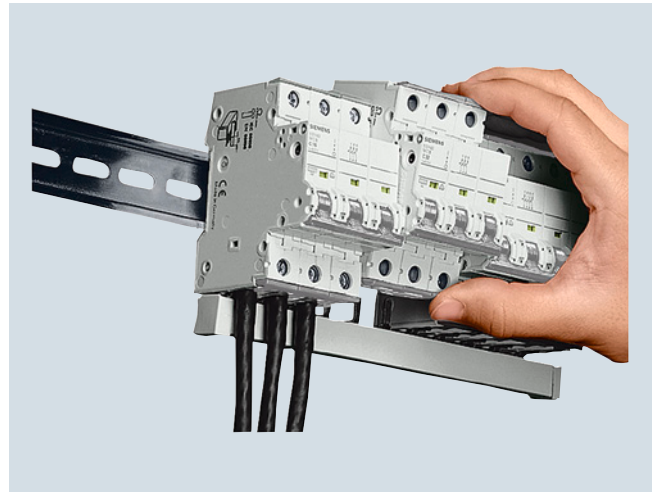
For North America, there is an additional approval according to UL 1077 for use as "supplementary protectors" in systems up to 480/277 V AC. For use in ship building, the devices also have numerous certifications according to shipping classifications; BV, DNV, GL and LRS. References to this [can be found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

3

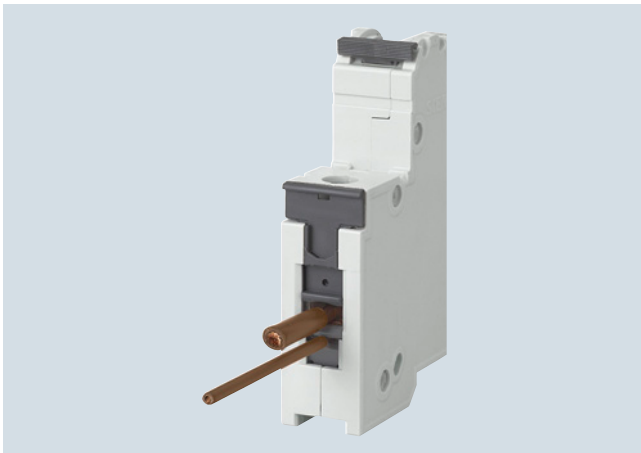
Benefits



- 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	5SY5	5SY7	5SY8	5SP4
Standards		EN 60898-1	EN 60898-1	EN 60898-2	EN 60898-1	EN 60947-2	EN 60898-1
Approvals		See chapter "Appendix"					
Rated voltage U_n	V AC V DC	230/400 --	230/400 --	230/400 220/440/ 880 ⁵⁾	230/400 --	230/400 --	230/400 --
Operational voltage							
Acc. to EN 60898-1/-2 and EN 60947-2	Min. V AC/DC/pole	24	24	24	24	24	24
	Max. V DC/pole	72 ⁴⁾	72 ⁴⁾	250	72 ⁴⁾	72 ⁴⁾	72
Acc. to UL 1077 and CSA C22.2 No.235	Max. V AC	250/440	250/440	250/440	250/440	250/440	250/440
	Max. V DC	480/277	480/277	--	480/277	480/277	480/277
Max. V DC		60	60 ⁶⁾	--	60 ⁶⁾	60 ⁶⁾	60
Breaking capacity¹⁾							
• I_{cn} acc. to IEC/EN 60898-1	kA AC	6	10	10	15	--	10
	kA DC	10	10	10	15	--	10
• I_{cu} acc. to IEC/EN 60947-2	kA AC	30 ... 10 ¹⁾	35 ... 10 ¹⁾	35 ... 10 ¹⁾	50 ... 15 ¹⁾	70 ... 20 ¹⁾	10
	kA DC	15	15	15	15	15	15
• Acc. to UL1077 and CSA C22.2 No.235	kA AC	5	5	--	5	5	5
Insulation coordination							
• Rated insulation voltage	V AC	250/440		250	--	--	--
	V DC/pole	--	--		--	--	--
Rated frequency	Hz	50/60					
Pollution degree for overvoltage category		3/III ³⁾					
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	--					Yes
Terminals	± Screw (Pozidriv)	2					
• Tunnel terminals at both ends		--					Yes
	• Combined terminals at both ends	Yes					--
• Terminal tightening torque	Nm	2.5 ... 3					2.5 ... 3.5
	lbs/in.	22 ... 26					22 ... 31
Conductor cross-sections							
• Solid and stranded	mm ²	0.75 ... 35					4 ... 50
	mm ²	0.75 ... 25					1.5 ... 35
• AWG conductors (Cu 60/75 °C $I_n \leq 40$ A; 60 °C $I_n > 40$ A)	AWG	14 ... 4					14 ... 2
Mains connection							
• AC		Any					
	• DC	Any		²⁾		Any	
Mounting position		Any					
Endurance	On average, with rated load	Actuations	20000				
		Actuations	10000 for 5SY5 at 40 A, 50 A and 63 A				
Ambient temperature	°C	-25 ... +55, max. 95 % humidity					
Storage temperature	°C	-40 ... +75					
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 further information see Configuration Manual "Miniature circuit breakers" at: www.siemens.com/lowvoltage/manuals.

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

³⁾ 5SY54.. 4-pole, degree of pollution 2 at 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.





⁶⁾ Valid for 1-pole switching devices only.

Miniature Circuit Breakers

5SY and 5SP Miniature Circuit Breakers

5SY6, 6000 A

Selection and ordering data

6000 3			I_n	Mounting width	DT	Characteristic B			Characteristic C			PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
			A	MW ¹⁾		Article No. www.siemens.com/ product?Article No.	Price per PU	PG	DT	Article No. www.siemens.com/ product?Article No.	Price per PU				kg	
Miniature circuit breakers 6000 A																
1P, 230/400 V AC																
			0.3	1	--					5SY6114-7		1	1 unit	1AC	0.168	
			0.5		--					5SY6105-7		1	1/120 units	1AC	0.157	
			1		--					5SY6101-7		1	1/120 units	1AC	0.155	
			1.6		--					5SY6115-7		1	1/120 units	1AC	0.162	
			2		5SY6102-6			1AB ▶		5SY6102-7		1	1/120 units	1AC	0.161	
			3		--					5SY6103-7		1	1/120 units	1AC	0.161	
			4		5SY6104-6			1AB ▶		5SY6104-7		1	1/120 units	1AC	0.151	
			5		--					5SY6111-7		1	1 unit	1AC	0.161	
			6		5SY6106-6			1AB ▶		5SY6106-7		1	1/120 units	1AC	0.150	
			8		--					5SY6108-7		1	1/120 units	1AC	0.150	
			10		5SY6110-6			1AB ▶		5SY6110-7		1	1/120 units	1AC	0.150	
			13		5SY6113-6			1AB		5SY6113-7		1	1/120 units	1AC	0.154	
			15		--					5SY6118-7		1	1 unit	1AC	0.158	
			16		5SY6116-6			1AB ▶		5SY6116-7		1	1/120 units	1AC	0.155	
			20		5SY6120-6			1AB		5SY6120-7		1	1/120 units	1AC	0.154	
			25		5SY6125-6			1AB		5SY6125-7		1	1/120 units	1AC	0.153	
			30		--					5SY6130-7		1	1 unit	1AC	0.162	
			32		5SY6132-6			1AB		5SY6132-7		1	1/120 units	1AC	0.154	
			40		5SY6140-6			1AB		5SY6140-7		1	1/120 units	1AC	0.154	
			50		5SY6150-6			1AB		5SY6150-7		1	1/120 units	1AC	0.160	
			63		5SY6163-6			1AB		5SY6163-7		1	1/120 units	1AC	0.164	
1P+N, 230 V AC																
			0.3	2	--					5SY6514-7		1	1 unit	1AC	0.328	
			0.5		--					5SY6505-7		1	1 unit	1AC	0.324	
			1		--					5SY6501-7		1	1 unit	1AC	0.319	
			1.6		--					5SY6515-7		1	1 unit	1AC	0.311	
			2		5SY6506-6			1AB		5SY6502-7		1	1/60 units	1AC	0.321	
			3		--					5SY6503-7		1	1 unit	1AC	0.320	
			4		5SY6510-6			1AB		5SY6504-7		1	1 unit	1AC	0.319	
			6		5SY6513-6			1AB		5SY6506-7		1	1/60 units	1AC	0.302	
			8		--					5SY6508-7		1	1 unit	1AC	0.313	
			10		5SY6510-6			1AB		5SY6510-7		1	1/60 units	1AC	0.302	
			13		5SY6513-6			1AB		5SY6513-7		1	1/60 units	1AC	0.309	
			16		5SY6516-6			1AB		5SY6516-7		1	1/60 units	1AC	0.302	
			20		5SY6520-6			1AB		5SY6520-7		1	1 unit	1AC	0.313	
			25		5SY6525-6			1AB		5SY6525-7		1	1 unit	1AC	0.314	
			32		5SY6532-6			1AB		5SY6532-7		1	1 unit	1AC	0.317	
			40		5SY6540-6			1AB		5SY6540-7		1	1 unit	1AC	0.317	
			50		5SY6550-6			1AB		5SY6550-7		1	1 unit	1AC	0.329	
			63		5SY6563-6			1AB		5SY6563-7		1	1 unit	1AC	0.344	
2P, 400 V AC																
			0.3	2	--					5SY6214-7		1	1 unit	1AC	0.325	
			0.5		--					5SY6205-7		1	1/60 units	1AC	0.322	
			1		--					5SY6201-7		1	1/60 units	1AC	0.313	
			1.6		--					5SY6215-7		1	1 unit	1AC	0.316	
			2		--					5SY6202-7		1	1/60 units	1AC	0.315	
			3		--					5SY6203-7		1	1/60 units	1AC	0.305	
			4		--					5SY6204-7		1	1/60 units	1AC	0.304	
			5		--					5SY6211-7		1	1 unit	1AC	0.314	
			6		5SY6206-6			1AB ▶		5SY6206-7		1	1/60 units	1AC	0.302	
			8		--					5SY6208-7		1	1/60 units	1AC	0.309	
			10		5SY6210-6			1AB ▶		5SY6210-7		1	1/60 units	1AC	0.309	
			13		5SY6213-6			1AB		5SY6213-7		1	1 unit	1AC	0.316	
			15		--					5SY6218-7		1	1 unit	1AC	0.309	
			16		5SY6216-6			1AB ▶		5SY6216-7		1	1/60 units	1AC	0.301	
			20		5SY6220-6			1AB		5SY6220-7		1	1/60 units	1AC	0.309	
			25		5SY6225-6			1AB		5SY6225-7		1	1/60 units	1AC	0.309	
			30		--					5SY6230-7		1	1 unit	1AC	0.316	
			32		5SY6232-6			1AB		5SY6232-7		1	1/60 units	1AC	0.310	
			40		5SY6240-6			1AB		5SY6240-7		1	1 unit	1AC	0.316	
			50		5SY6250-6			1AB		5SY6250-7		1	1 unit	1AC	0.326	
			63		5SY6263-6			1AB		5SY6263-7		1	1 unit	1AC	0.337	

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 A	DT	Characteristic B		PG	DT	Characteristic C		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
			Article No. www.siemens.com/ product?Article No.	Price per PU			Article No. www.siemens.com/ product?Article No.	Price per PU				
Miniature circuit breakers 6000 A												
3P, 400 V AC												
0.3	3	--	--				5SY6314-7		1	1 unit	1AC	0.483
0.5		--	5SY6305-7				5SY6305-7		1	1 unit	1AC	0.478
1		--	5SY6301-7				5SY6301-7		1	1 unit	1AC	0.480
1.6		--	5SY6315-7				5SY6315-7		1	1 unit	1AC	0.470
2		--	5SY6302-7				5SY6302-7		1	1/40 units	1AC	0.474
3		--	5SY6303-7				5SY6303-7		1	1 unit	1AC	0.463
4		--	5SY6304-7				5SY6304-7		1	1/40 units	1AC	0.459
5		--	5SY6311-7				5SY6311-7		1	1 unit	1AC	0.465
6		5SY6306-6			1AB ▶		5SY6306-7		1	1/40 units	1AC	0.453
8		--	5SY6308-7				5SY6308-7		1	1 unit	1AC	0.458
10		5SY6310-6			1AB ▶		5SY6310-7		1	1/40 units	1AC	0.452
13		5SY6313-6			1AB		5SY6313-7		1	1 unit	1AC	0.469
15		--	5SY6318-7				5SY6318-7		1	1 unit	1AC	0.461
16		▶ 5SY6316-6			1AB ▶		5SY6316-7		1	1/40 units	1AC	0.453
20		5SY6320-6			1AB		5SY6320-7		1	1/40 units	1AC	0.464
25		5SY6325-6			1AB		5SY6325-7		1	1/40 units	1AC	0.465
30		--	5SY6330-7				5SY6330-7		1	1 unit	1AC	0.470
32		5SY6332-6			1AB ▶		5SY6332-7		1	1/40 units	1AC	0.469
40		5SY6340-6			1AB		5SY6340-7		1	1/40 units	1AC	0.470
50		5SY6350-6			1AB		5SY6350-7		1	1/40 units	1AC	0.483
63		5SY6363-6			1AB		5SY6363-7		1	1/40 units	1AC	0.499
3P+N, 400 V AC												
0.3	4	--	--				5SY6614-7		1	1 unit	1AC	0.642
0.5		--	5SY6605-7				5SY6605-7		1	1 unit	1AC	0.636
1		--	5SY6601-7				5SY6601-7		1	1 unit	1AC	0.635
1.6		--	5SY6615-7				5SY6615-7		1	1 unit	1AC	0.622
2		--	5SY6602-7				5SY6602-7		1	1 unit	1AC	0.642
3		--	5SY6603-7				5SY6603-7		1	1 unit	1AC	0.617
4		--	5SY6604-7				5SY6604-7		1	1 unit	1AC	0.616
6		5SY6606-6			1AB		5SY6606-7		1	1 unit	1AC	0.610
8		--	5SY6608-7				5SY6608-7		1	1 unit	1AC	0.607
10		5SY6610-6			1AB		5SY6610-7		1	1 unit	1AC	0.608
13		5SY6613-6			1AB		5SY6613-7		1	1/3 units	1AC	0.620
16		5SY6616-6			1AB		5SY6616-7		1	1/30 units	1AC	0.604
20		5SY6620-6			1AB		5SY6620-7		1	1 unit	1AC	0.621
25		5SY6625-6			1AB		5SY6625-7		1	1 unit	1AC	0.623
32		5SY6632-6			1AB		5SY6632-7		1	1 unit	1AC	0.627
40		5SY6640-6			1AB		5SY6640-7		1	1 unit	1AC	0.625
50		5SY6650-6			1AB		5SY6650-7		1	1 unit	1AC	0.644
63		5SY6663-6			1AB		5SY6663-7		1	1 unit	1AC	0.673
4P, 400 V AC												
0.3	4	--	--				5SY6414-7		1	1 unit	1AC	0.640
0.5		--	5SY6405-7				5SY6405-7		1	1 unit	1AC	0.644
1		--	5SY6401-7				5SY6401-7		1	1 unit	1AC	0.626
1.6		--	5SY6415-7				5SY6415-7		1	1 unit	1AC	0.621
2		--	5SY6402-7				5SY6402-7		1	1 unit	1AC	0.644
3		--	5SY6403-7				5SY6403-7		1	1 unit	1AC	0.623
4		--	5SY6404-7				5SY6404-7		1	1 unit	1AC	0.615
6		5SY6406-6			1AB		5SY6406-7		1	1 unit	1AC	0.606
8		--	5SY6408-7				5SY6408-7		1	1 unit	1AC	0.608
10		5SY6410-6			1AB		5SY6410-7		1	1/30 units	1AC	0.605
13		5SY6413-6			1AB		5SY6413-7		1	1 unit	1AC	0.624
16		5SY6416-6			1AB		5SY6416-7		1	1/30 units	1AC	0.604
20		5SY6420-6			1AB		5SY6420-7		1	1/30 units	1AC	0.618
25		5SY6425-6			1AB		5SY6425-7		1	1/30 units	1AC	0.620
32		5SY6432-6			1AB		5SY6432-7		1	1/30 units	1AC	0.622
40		5SY6440-6			1AB		5SY6440-7		1	1/30 units	1AC	0.627
50		5SY6450-6			1AB		5SY6450-7		1	1 unit	1AC	0.656
63		5SY6463-6			1AB		5SY6463-7		1	1/30 units	1AC	0.626





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	DT	Characteristic A			Characteristic B			PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
					Article No. www.siemens.com/product?Article.No.	Price per PU	PG DT	Article No. www.siemens.com/product?Article.No.	Price per PU	PG DT				
Miniature circuit breakers 10000 A														
	1P, 230/400 V AC													
	0.5	1	5SY4105-5		1AA	--								
	1		5SY4101-5		1AA	--								
	1.6		5SY4115-5		1AA	--								
	2		5SY4102-5		1AA	5SY4102-6	1	1 unit	1AB	0.170				
	3		5SY4103-5		1AA	--								
	4		5SY4104-5		1AA	5SY4104-6	1	1 unit	1AB	0.171				
	6		5SY4106-5		1AA ▶	5SY4106-6	1	1/120 units	1AB	0.156				
	8		5SY4108-5		1AA	--								
	10		5SY4110-5		1AA ▶	5SY4110-6	1	1/120 units	1AB	0.151				
	13		5SY4113-5		1AA	5SY4113-6	1	1/120 units	1AB	0.152				
	16		5SY4116-5		1AA ▶	5SY4116-6	1	1/120 units	1AB	0.153				
	20		5SY4120-5		1AA	5SY4120-6	1	1/120 units	1AB	0.165				
	25		5SY4125-5		1AA	5SY4125-6	1	1/120 units	1AB	0.163				
	32		5SY4132-5		1AA	5SY4132-6	1	1/120 units	1AB	0.170				
	40		5SY4140-5		1AA	5SY4140-6	1	1/120 units	1AB	0.167				
	50		5SY4150-5		1AA	5SY4150-6	1	1 unit	1AB	0.168				
63		5SY4163-5		1AA	5SY4163-6	1	1 unit	1AB	0.175					
80		--			5SY4180-6	1	1 unit	1AB	0.175					
	1P+N, 230 V AC													
	1	2	5SY4501-5		1AA	--								
	1.6		5SY4515-5		1AA	--								
	2		5SY4502-5		1AA	--								
	3		5SY4503-5		1AA	--								
	4		5SY4504-5		1AA	--								
	6		5SY4506-5		1AA	5SY4506-6	1	1 unit	1AB	0.313				
	8		5SY4508-5		1AA	--								
	10		5SY4510-5		1AA	5SY4510-6	1	1/60 units	1AB	0.317				
	13		5SY4513-5		1AA	5SY4513-6	1	1/6 units	1AB	0.307				
	16		5SY4516-5		1AA	5SY4516-6	1	1/60 units	1AB	0.311				
20		5SY4520-5		1AA	5SY4520-6	1	1 unit	1AB	0.310					
25		5SY4525-5		1AA	5SY4525-6	1	1 unit	1AB	0.320					
32		5SY4532-5		1AA	5SY4532-6	1	1 unit	1AB	0.322					
40		5SY4540-5		1AA	5SY4540-6	1	1 unit	1AB	0.321					
50		5SY4550-5		1AA	5SY4550-6	1	1 unit	1AB	0.319					
63		5SY4563-5		1AA	5SY4563-6	1	1 unit	1AB	0.330					
	2P, 400 V AC													
	0.5	2	5SY4205-5		1AA	--								
	1		5SY4201-5		1AA	--								
	1.6		5SY4215-5		1AA	--								
	2		5SY4202-5		1AA	--								
	3		5SY4203-5		1AA	--								
	4		5SY4204-5		1AA	--								
	6		5SY4206-5		1AA	5SY4206-6	1	1/60 units	1AB	0.312				
	8		5SY4208-5		1AA	--								
	10		5SY4210-5		1AA	5SY4210-6	1	1/60 units	1AB	0.304				
	13		5SY4213-5		1AA	5SY4213-6	1	1 unit	1AB	0.321				
	16		5SY4216-5		1AA	5SY4216-6	1	1/60 units	1AB	0.309				
	20		5SY4220-5		1AA	5SY4220-6	1	1 unit	1AB	0.317				
25		5SY4225-5		1AA	5SY4225-6	1	1 unit	1AB	0.323					
32		5SY4232-5		1AA	5SY4232-6	1	1 unit	1AB	0.322					
40		5SY4240-5		1AA	5SY4240-6	1	1 unit	1AB	0.321					
50		5SY4250-5		1AA	5SY4250-6	1	1 unit	1AB	0.328					
63		5SY4263-5		1AA	5SY4263-6	1	1 unit	1AB	0.339					
80		--			5SY4280-6	1	1 unit	1AB	0.311					

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	DT	Characteristic A Article No. www.siemens.com/product?Article No.	Price per PU	PG DT	Characteristic B Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
			A	MW ¹⁾										kg
Miniature circuit breakers 10000 A														
3P, 400 V AC														
	0.5	3	5SY4305-5	1AA	--									
	1		5SY4301-5	1AA	--									
	1.6		5SY4315-5	1AA	--									
	2		5SY4302-5	1AA	--									
	3		5SY4303-5	1AA	--									
	4		5SY4304-5	1AA	--									
	6		5SY4306-5	1AA	5SY4306-6	1	1/40 units	1AB	0.467					
	8		5SY4308-5	1AA	--									
	10		5SY4310-5	1AA	5SY4310-6	1	1/40 units	1AB	0.439					
	13		5SY4313-5	1AA	5SY4313-6	1	1 unit	1AB	0.473					
	16		5SY4316-5	1AA	5SY4316-6	1	1/40 units	1AB	0.462					
	20		5SY4320-5	1AA	5SY4320-6	1	1/40 units	1AB	0.461					
	25		5SY4325-5	1AA	5SY4325-6	1	1/40 units	1AB	0.469					
	32		5SY4332-5	1AA	5SY4332-6	1	1/40 units	1AB	0.473					
40		5SY4340-5	1AA	5SY4340-6	1	1 unit	1AB	0.478						
50		5SY4350-5	1AA	5SY4350-6	1	1 unit	1AB	0.493						
63		5SY4363-5	1AA	5SY4363-6	1	1 unit	1AB	0.506						
80		--	1AA	5SY4380-6	1	1 unit	1AB	0.508						
3P+N, 400 V AC														
	1	4	5SY4601-5	1AA	--									
	1.6		5SY4615-5	1AA	--									
	2		5SY4602-5	1AA	--									
	3		5SY4603-5	1AA	--									
	4		5SY4604-5	1AA	--									
	6		5SY4606-5	1AA	5SY4606-6	1	1 unit	1AB	0.617					
	8		5SY4608-5	1AA	--									
	10		5SY4610-5	1AA	5SY4610-6	1	1 unit	1AB	0.612					
	13		5SY4613-5	1AA	5SY4613-6	1	1 unit	1AB	0.619					
	16		5SY4616-5	1AA	5SY4616-6	1	1 unit	1AB	0.628					
	20		5SY4620-5	1AA	5SY4620-6	1	1 unit	1AB	0.612					
	25		5SY4625-5	1AA	5SY4625-6	1	1 unit	1AB	0.624					
	32		5SY4632-5	1AA	5SY4632-6	1	1 unit	1AB	0.634					
	40		5SY4640-5	1AA	5SY4640-6	1	1 unit	1AB	0.632					
50		5SY4650-5	1AA	5SY4650-6	1	1 unit	1AB	0.667						
63		5SY4663-5	1AA	5SY4663-6	1	1 unit	1AB	0.673						
4P, 400 V AC														
	1	4	5SY4401-5	1AA	--									
	1.6		5SY4415-5	1AA	--									
	2		5SY4402-5	1AA	--									
	3		5SY4403-5	1AA	--									
	4		5SY4404-5	1AA	--									
	6		5SY4406-5	1AA	5SY4406-6	1	1 unit	1AB	0.612					
	8		5SY4408-5	1AA	--									
	10		5SY4410-5	1AA	5SY4410-6	1	1 unit	1AB	0.613					
	13		5SY4413-5	1AA	5SY4413-6	1	1 unit	1AB	0.618					
	16		5SY4416-5	1AA	5SY4416-6	1	1 unit	1AB	0.621					
	20		5SY4420-5	1AA	5SY4420-6	1	1 unit	1AB	0.610					
	25		5SY4425-5	1AA	5SY4425-6	1	1 unit	1AB	0.622					
	32		5SY4432-5	1AA	5SY4432-6	1	1 unit	1AB	0.632					
	40		5SY4440-5	1AA	5SY4440-6	1	1 unit	1AB	0.627					
50		5SY4450-5	1AA	5SY4450-6	1	1 unit	1AB	0.650						
63		5SY4463-5	1AA	5SY4463-6	1	1 unit	1AB	0.660						
80		--	1AA	5SY4480-6	1	1 unit	1AB	0.692						

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 DT	Characteristic C Article No. www.siemens.com/ product?Article No.	Price per PU	PG DT	Characteristic D Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Miniature circuit breakers 10000 A													
	1P, 230/400 V AC												
	0.3	1	5SY4114-7	1AC	5SY4114-8	1	1 unit	1AA	0.166				
	0.5		5SY4105-7	1AC	5SY4105-8	1	1 unit	1AA	0.166				
	1		5SY4101-7	1AC	5SY4101-8	1	1/120 units	1AA	0.172				
	1.6		5SY4115-7	1AC	5SY4115-8	1	1 unit	1AA	0.164				
	2	▶	5SY4102-7	1AC	5SY4102-8	1	1/120 units	1AA	0.155				
	3		5SY4103-7	1AC	5SY4103-8	1	1/120 units	1AA	0.161				
	4	▶	5SY4104-7	1AC	5SY4104-8	1	1/120 units	1AA	0.150				
	5		5SY4111-7	1AC	--								
	6	▶	5SY4106-7	1AC	5SY4106-8	1	1/120 units	1AA	0.165				
	8		5SY4108-7	1AC	5SY4108-8	1	1 unit	1AA	0.155				
	10	▶	5SY4110-7	1AC	5SY4110-8	1	1/120 units	1AA	0.147				
	13		5SY4113-7	1AC	5SY4113-8	1	1 unit	1AA	0.157				
	15		5SY4118-7	1AC	--								
	16	▶	5SY4116-7	1AC	5SY4116-8	1	1/120 units	1AA	0.157				
	20		5SY4120-7	1AC	5SY4120-8	1	1 unit	1AA	0.162				
	25		5SY4125-7	1AC	5SY4125-8	1	1 unit	1AA	0.160				
	30		5SY4130-7	1AC	--								
	32		5SY4132-7	1AC	5SY4132-8	1	1 unit	1AA	0.167				
	35		5SY4135-7	1AC	--								
40		5SY4140-7	1AC	5SY4140-8	1	1 unit	1AA	0.166					
45		5SY4145-7	1AC	--									
50		5SY4150-7	1AC	5SY4150-8	1	1 unit	1AA	0.164					
60		5SY4160-7	1AC	--									
63		5SY4163-7	1AC	5SY4163-8	1	1 unit	1AA	0.167					
80		5SY4180-7	1AC	--									
	1P+N, 230 V AC												
	0.3	2	5SY4514-7	1AC	5SY4514-8	1	1 unit	1AA	0.324				
	0.5		5SY4505-7	1AC	5SY4505-8	1	1 unit	1AA	0.323				
	1		5SY4501-7	1AC	5SY4501-8	1	1 unit	1AA	0.320				
	1.6		5SY4515-7	1AC	5SY4515-8	1	1 unit	1AA	0.321				
	2		5SY4502-7	1AC	5SY4502-8	1	1 unit	1AA	0.317				
	3		5SY4503-7	1AC	5SY4503-8	1	1 unit	1AA	0.315				
	4		5SY4504-7	1AC	5SY4504-8	1	1 unit	1AA	0.308				
	6		5SY4506-7	1AC	5SY4506-8	1	1 unit	1AA	0.311				
	8		5SY4508-7	1AC	5SY4508-8	1	1 unit	1AA	0.307				
	10		5SY4510-7	1AC	5SY4510-8	1	1 unit	1AA	0.324				
	13		5SY4513-7	1AC	5SY4513-8	1	1 unit	1AA	0.301				
	16		5SY4516-7	1AC	5SY4516-8	1	1 unit	1AA	0.303				
	20		5SY4520-7	1AC	5SY4520-8	1	1 unit	1AA	0.317				
	25		5SY4525-7	1AC	5SY4525-8	1	1 unit	1AA	0.313				
	32		5SY4532-7	1AC	5SY4532-8	1	1 unit	1AA	0.323				
	40		5SY4540-7	1AC	5SY4540-8	1	1 unit	1AA	0.326				
	50		5SY4550-7	1AC	5SY4550-8	1	1 unit	1AA	0.322				
63		5SY4563-7	1AC	5SY4563-8	1	1 unit	1AA	0.324					
80		5SY4580-7	1AC	--									
	2P, 400 V AC												
	0.3	2	5SY4214-7	1AC	5SY4214-8	1	1 unit	1AA	0.322				
	0.5		5SY4205-7	1AC	5SY4205-8	1	1 unit	1AA	0.326				
	1		5SY4201-7	1AC	5SY4201-8	1	1/60 units	1AA	0.328				
	1.6		5SY4215-7	1AC	5SY4215-8	1	1 unit	1AA	0.316				
	2	▶	5SY4202-7	1AC	5SY4202-8	1	1/60 units	1AA	0.319				
	3		5SY4203-7	1AC	5SY4203-8	1	1/60 units	1AA	0.323				
	4		5SY4204-7	1AC	5SY4204-8	1	1/60 units	1AA	0.309				
	5		5SY4211-7	1AC	--								
	6	▶	5SY4206-7	1AC	5SY4206-8	1	1/60 units	1AA	0.317				
	8		5SY4208-7	1AC	5SY4208-8	1	1 unit	1AA	0.310				
	10	▶	5SY4210-7	1AC	5SY4210-8	1	1/60 units	1AA	0.303				
	13		5SY4213-7	1AC	5SY4213-8	1	1 unit	1AA	0.304				
	15		5SY4218-7	1AC	--								
	16	▶	5SY4216-7	1AC	5SY4216-8	1	1/60 units	1AA	0.311				
	20		5SY4220-7	1AC	5SY4220-8	1	1 unit	1AA	0.315				
	25		5SY4225-7	1AC	5SY4225-8	1	1 unit	1AA	0.323				
	30		5SY4230-7	1AC	--								
	32		5SY4232-7	1AC	5SY4232-8	1	1 unit	1AA	0.329				
	35		5SY4235-7	1AC	--								
40		5SY4240-7	1AC	5SY4240-8	1	1 unit	1AA	0.321					
45		5SY4245-7	1AC	--									
50		5SY4250-7	1AC	5SY4250-8	1	1 unit	1AA	0.328					
60		5SY4260-7	1AC	--									
63		5SY4263-7	1AC	5SY4263-8	1	1 unit	1AA	0.325					
80		5SY4280-7	1AC	--									

* You can order this quantity or a multiple thereof.

Miniature Circuit Breakers

5SY and 5SP Miniature Circuit Breakers

5SY4, 10000 A

10000 3		I_n	Mounting width	DT	Characteristic C			Characteristic D			Weight per PU approx.		
					Article No. www.siemens.com/product?Article No.	Price per PU	PG DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)		PS*/P. unit	PG
		A	MW ¹⁾										
Miniature circuit breakers 10000 A													
3P, 400 V AC													
		0.3	3	5SY4314-7	1AC	5SY4314-8	1	1 unit	1AA	0.481			
		0.5		5SY4305-7	1AC	5SY4305-8	1	1 unit	1AA	0.484			
		1		5SY4301-7	1AC	5SY4301-8	1	1 unit	1AA	0.474			
		1.6		5SY4315-7	1AC	5SY4315-8	1	1 unit	1AA	0.471			
		2		5SY4302-7	1AC	5SY4302-8	1	1 unit	1AA	0.469			
		3		5SY4303-7	1AC	5SY4303-8	1	1 unit	1AA	0.467			
		4		5SY4304-7	1AC	5SY4304-8	1	1 unit	1AA	0.456			
		5		5SY4311-7	1AC	---							
		6		5SY4306-7	1AC	5SY4306-8	1	1/40 units	1AA	0.461			
		8		5SY4308-7	1AC	5SY4308-8	1	1 unit	1AA	0.443			
		10	▶	5SY4310-7	1AC	5SY4310-8	1	1/40 units	1AA	0.458			
		13		5SY4313-7	1AC	5SY4313-8	1	1 unit	1AA	0.450			
		15		5SY4318-7	1AC	---							
		16	▶	5SY4316-7	1AC	5SY4316-8	1	1/40 units	1AA	0.430			
		20		5SY4320-7	1AC	5SY4320-8	1	1/40 units	1AA	0.476			
		25		5SY4325-7	1AC	5SY4325-8	1	1/40 units	1AA	0.469			
		30		5SY4330-7	1AC	---							
	32	▶	5SY4332-7	1AC	5SY4332-8	1	1/40 units	1AA	0.478				
	35		5SY4335-7	1AC	---								
	40		5SY4340-7	1AC	5SY4340-8	1	1 unit	1AA	0.482				
	45		5SY4345-7	1AC	---								
	50		5SY4350-7	1AC	5SY4350-8	1	1 unit	1AA	0.480				
	60		5SY4360-7	1AC	---								
	63		5SY4363-7	1AC	5SY4363-8	1	1 unit	1AA	0.492				
	80		5SY4380-7	1AC	---								
3P+N, 400 V AC													
		0.3	4	5SY4614-7	1AC	5SY4614-8	1	1 unit	1AA	0.634			
		0.5		5SY4605-7	1AC	5SY4605-8	1	1 unit	1AA	0.660			
		1		5SY4601-7	1AC	5SY4601-8	1	1 unit	1AA	0.632			
		1.6		5SY4615-7	1AC	5SY4615-8	1	1 unit	1AA	0.622			
		2		5SY4602-7	1AC	5SY4602-8	1	1 unit	1AA	0.608			
		3		5SY4603-7	1AC	5SY4603-8	1	1 unit	1AA	0.619			
		4		5SY4604-7	1AC	5SY4604-8	1	1 unit	1AA	0.587			
		6		5SY4606-7	1AC	5SY4606-8	1	1 unit	1AA	0.617			
		8		5SY4608-7	1AC	5SY4608-8	1	1 unit	1AA	0.595			
		10		5SY4610-7	1AC	5SY4610-8	1	1 unit	1AA	0.599			
		13		5SY4613-7	1AC	5SY4613-8	1	1 unit	1AA	0.600			
		16		5SY4616-7	1AC	5SY4616-8	1	1 unit	1AA	0.597			
		20		5SY4620-7	1AC	5SY4620-8	1	1 unit	1AA	0.621			
		25		5SY4625-7	1AC	5SY4625-8	1	1 unit	1AA	0.629			
		32		5SY4632-7	1AC	5SY4632-8	1	1 unit	1AA	0.642			
		40		5SY4640-7	1AC	5SY4640-8	1	1 unit	1AA	0.645			
		50		5SY4650-7	1AC	5SY4650-8	1	1 unit	1AA	0.623			
	63		5SY4663-7	1AC	5SY4663-8	1	1 unit	1AA	0.642				
	80		5SY4680-7	1AC	---								
4P, 400 V AC													
		0.3	4	5SY4414-7	1AC	5SY4414-8	1	1 unit	1AA	0.632			
		0.5		5SY4405-7	1AC	5SY4405-8	1	1 unit	1AA	0.633			
		1		5SY4401-7	1AC	5SY4401-8	1	1 unit	1AA	0.632			
		1.6		5SY4415-7	1AC	5SY4415-8	1	1 unit	1AA	0.623			
		2		5SY4402-7	1AC	5SY4402-8	1	1 unit	1AA	0.631			
		3		5SY4403-7	1AC	5SY4403-8	1	1 unit	1AA	0.616			
		4		5SY4404-7	1AC	5SY4404-8	1	1 unit	1AA	0.610			
		6		5SY4406-7	1AC	5SY4406-8	1	1 unit	1AA	0.605			
		8		5SY4408-7	1AC	5SY4408-8	1	1 unit	1AA	0.594			
		10		5SY4410-7	1AC	5SY4410-8	1	1 unit	1AA	0.595			
		13		5SY4413-7	1AC	5SY4413-8	1	1 unit	1AA	0.598			
		16		5SY4416-7	1AC	5SY4416-8	1	1 unit	1AA	0.596			
		20		5SY4420-7	1AC	5SY4420-8	1	1 unit	1AA	0.621			
		25		5SY4425-7	1AC	5SY4425-8	1	1 unit	1AA	0.631			
		32		5SY4432-7	1AC	5SY4432-8	1	1 unit	1AA	0.634			
		40		5SY4440-7	1AC	5SY4440-8	1	1 unit	1AA	0.634			
		50		5SY4450-7	1AC	5SY4450-8	1	1 unit	1AA	0.637			
	63		5SY4463-7	1AC	5SY4463-8	1	1 unit	1AA	0.647				
	80		5SY4480-7	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	DT	Characteristic B			Characteristic C			PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
				Article No. www.siemens.com/product?Article No.	Price per PU	PG DT	Article No. www.siemens.com/product?Article No.	Price per PU	PG				
Miniature circuit breakers 10000 A, universal current													
	1P, 230/400 V AC, 220 V DC												
	0.3	1	--				5SY5114-7		1	1 unit	1AC	0.174	
	0.5		--				5SY5105-7		1	1 unit	1AC	0.171	
	1		--				5SY5101-7		1	1/120 units	1AC	0.169	
	1.6		--				5SY5115-7		1	1 unit	1AC	0.167	
	2		5SY5102-6			1AB	5SY5102-7		1	1/120 units	1AC	0.170	
	3		--				5SY5103-7		1	1/120 units	1AC	0.165	
	4		5SY5104-6			1AB	5SY5104-7		1	1/120 units	1AC	0.164	
	6		5SY5106-6			1AB	5SY5106-7		1	1/120 units	1AC	0.166	
	8		--				5SY5108-7		1	1 unit	1AC	0.163	
	10		5SY5110-6			1AB	5SY5110-7		1	1/120 units	1AC	0.164	
	13		5SY5113-6			1AB	5SY5113-7		1	1 unit	1AC	0.168	
	16		5SY5116-6			1AB	5SY5116-7		1	1/120 units	1AC	0.164	
	20		5SY5120-6			1AB	5SY5120-7		1	1 unit	1AC	0.167	
	25		5SY5125-6			1AB	5SY5125-7		1	1 unit	1AC	0.167	
	32		5SY5132-6			1AB	5SY5132-7		1	1 unit	1AC	0.168	
	40		5SY5140-6			1AB	5SY5140-7		1	1 unit	1AC	0.173	
50		5SY5150-6			1AB	5SY5150-7		1	1 unit	1AC	0.172		
63		5SY5163-6			1AB	5SY5163-7		1	1 unit	1AC	0.176		
	2P, 400 V AC, 440 V DC												
	0.3	2	--				5SY5214-7		1	1 unit	1AC	0.330	
	0.5		--				5SY5205-7		1	1 unit	1AC	0.329	
	1		--				5SY5201-7		1	1 unit	1AC	0.325	
	1.6		--				5SY5215-7		1	1 unit	1AC	0.324	
	2		--				5SY5202-7		1	1/60 units	1AC	0.330	
	3		--				5SY5203-7		1	1/60 units	1AC	0.319	
	4		--				5SY5204-7		1	1/60 units	1AC	0.319	
	6		5SY5206-6			1AB ▶	5SY5206-7		1	1/60 units	1AC	0.309	
	8		--				5SY5208-7		1	1 unit	1AC	0.314	
	10		5SY5210-6			1AB	5SY5210-7		1	1/60 units	1AC	0.315	
	13		5SY5213-6			1AB	5SY5213-7		1	1/60 units	1AC	0.322	
	16		5SY5216-6			1AB	5SY5216-7		1	1/60 units	1AC	0.314	
20		5SY5220-6			1AB	5SY5220-7		1	1 unit	1AC	0.321		
25		5SY5225-6			1AB	5SY5225-7		1	1/60 units	1AC	0.320		
32		5SY5232-6			1AB	5SY5232-7		1	1 unit	1AC	0.323		
40		5SY5240-6			1AB	5SY5240-7		1	1 unit	1AC	0.322		
50		5SY5250-6			1AB	5SY5250-7		1	1 unit	1AC	0.337		
63		5SY5263-6			1AB	5SY5263-7		1	1/60 units	1AC	0.343		



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

For application examples, see Configuration Manual "Miniature Circuit Breakers" at: www.siemens.com/lowvoltage/manuals.

Miniature Circuit Breakers

5SY and 5SP Miniature Circuit Breakers

5SY5, universal current, 10000 A

10000 3		I_n	Mount- ing width	DT	Characteristic B		Characteristic C		PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
					Article No. www.siemens.com/ product?Article No.	Price per PU	Article No. www.siemens.com/ product?Article No.	Price per PU					
Miniature circuit breakers 10000 A, universal current													
													
4P, 400 V AC, 880 V DC (max. 1000 V DC)													
		A	MW ¹⁾									kg	
		0.3	1		--					1	1 unit	1AC	0.653
		0.5			--					1	1 unit	1AC	0.646
		1			--					1	1 unit	1AC	0.634
		1.6			--					1	1 unit	1AC	0.625
		2			--					1	1 unit	1AC	0.648
		3			--					1	1 unit	1AC	0.625
		4			--					1	1 unit	1AC	0.623
		6			5SY5406-6		1AB			1	1 unit	1AC	0.625
		8			--					1	1 unit	1AC	0.614
		10			5SY5410-6		1AB			1	1 unit	1AC	0.617
		13			5SY5413-6		1AB			1	1 unit	1AC	0.630
		16			5SY5416-6		1AB			1	1 unit	1AC	0.610
		20			5SY5420-6		1AB			1	1 unit	1AC	0.627
		25			5SY5425-6		1AB			1	1 unit	1AC	0.626
		32			5SY5432-6		1AB			1	1 unit	1AC	0.629
		40			5SY5440-6		1AB			1	1 unit	1AC	0.631
		50			5SY5450-6		1AB			1	1 unit	1AC	0.651
		63			5SY5463-6		1AB			1	1 unit	1AC	0.667

¹⁾ 1 MW (modular width) = 18 mm.

Note:

The 5ST3600 and 5ST3630 busbars enable simple wiring of 4-pole miniature circuit breakers, [see page 3/46](#).








For application examples, [see Configuration Manual "Miniature Circuit Breakers"](#) at: 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	DT	Characteristic B	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.					
											A	MW ¹⁾	Article No. www.siemens.com/product?Article No.	kg	
Miniature circuit breakers 15000 A															
	1P, 230/400 V AC		1												
	6										5SY7106-6	1	1 unit	1AB	0.161
	10										5SY7110-6	1	1 unit	1AB	0.160
	13										5SY7113-6	1	1 unit	1AB	0.162
	16										5SY7116-6	1	1 unit	1AB	0.167
	20										5SY7120-6	1	1 unit	1AB	0.161
	25										5SY7125-6	1	1 unit	1AB	0.163
	32										5SY7132-6	1	1 unit	1AB	0.165
	40										5SY7140-6	1	1 unit	1AB	0.165
	50										5SY7150-6	1	1 unit	1AB	0.170
63		5SY7163-6	1	1 unit	1AB	0.173									
	1P+N, 230 V AC		2												
	6										5SY7506-6	1	1 unit	1AB	0.314
	10										5SY7510-6	1	1 unit	1AB	0.313
	13										5SY7513-6	1	1 unit	1AB	0.318
	16										5SY7516-6	1	1 unit	1AB	0.315
	20										5SY7520-6	1	1 unit	1AB	0.311
	25										5SY7525-6	1	1 unit	1AB	0.309
	32										5SY7532-6	1	1 unit	1AB	0.321
	40										5SY7540-6	1	1 unit	1AB	0.322
	50										5SY7550-6	1	1 unit	1AB	0.330
63		5SY7563-6	1	1 unit	1AB	0.340									
	2P, 400 V AC		2												
	6										5SY7206-6	1	1 unit	1AB	0.320
	10										5SY7210-6	1	1 unit	1AB	0.310
	13										5SY7213-6	1	1 unit	1AB	0.296
	16										5SY7216-6	1	1 unit	1AB	0.317
	20										5SY7220-6	1	1 unit	1AB	0.311
	25										5SY7225-6	1	1 unit	1AB	0.317
	32										5SY7232-6	1	1 unit	1AB	0.322
	40										5SY7240-6	1	1 unit	1AB	0.324
	50										5SY7250-6	1	1 unit	1AB	0.328
63		5SY7263-6	1	1 unit	1AB	0.339									
	3P, 400 V AC		3												
	6										5SY7306-6	1	1 unit	1AB	0.463
	10										5SY7310-6	1	1 unit	1AB	0.458
	13										5SY7313-6	1	1 unit	1AB	0.467
	16										5SY7316-6	1	1 unit	1AB	0.474
	20										5SY7320-6	1	1 unit	1AB	0.470
	25										5SY7325-6	1	1 unit	1AB	0.474
	32										5SY7332-6	1	1 unit	1AB	0.476
	40										5SY7340-6	1	1 unit	1AB	0.474
	50										5SY7350-6	1	1 unit	1AB	0.486
63		5SY7363-6	1	1 unit	1AB	0.506									
	3P+N, 400 V AC		4												
	6										5SY7606-6	1	1 unit	1AB	0.632
	10										5SY7610-6	1	1 unit	1AB	0.591
	13										5SY7613-6	1	1 unit	1AB	0.622
	16										5SY7616-6	1	1 unit	1AB	0.624
	20										5SY7620-6	1	1 unit	1AB	0.614
	25										5SY7625-6	1	1 unit	1AB	0.617
	32										5SY7632-6	1	1 unit	1AB	0.634
	40										5SY7640-6	1	1 unit	1AB	0.637
	50										5SY7650-6	1	1 unit	1AB	0.648
63		5SY7663-6	1	1 unit	1AB	0.660									
	4P, 400 V AC		4												
	6										5SY7406-6	1	1 unit	1AB	0.621
	10										5SY7410-6	1	1 unit	1AB	0.610
	13										5SY7413-6	1	1 unit	1AB	0.633
	16										5SY7416-6	1	1 unit	1AB	0.620
	20										5SY7420-6	1	1 unit	1AB	0.613
	25										5SY7425-6	1	1 unit	1AB	0.630
	32										5SY7432-6	1	1 unit	1AB	0.633
	40										5SY7440-6	1	1 unit	1AB	0.635
	50										5SY7450-6	1	1 unit	1AB	0.647
63		5SY7463-6	1	1 unit	1AB	0.671									

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

5SY and 5SP Miniature Circuit Breakers

5SY7, 15000 A





15000		I_n	Mounting width	DT	Characteristic C			Characteristic D						
					Article No. www.siemens.com/product?Article No.	Price per PU	PG DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
		A	MW ¹⁾											
Miniature circuit breakers 15000 A														
	1P, 230/400 V AC													
	0.3	1	5SY7114-7	1AC	5SY7114-8	1	1 unit	1AA	0.160					
	0.5		5SY7105-7	1AC	5SY7105-8	1	1 unit	1AA	0.153					
	1		5SY7101-7	1AC	5SY7101-8	1	1 unit	1AA	0.164					
	1.6		5SY7115-7	1AC	5SY7115-8	1	1 unit	1AA	0.163					
	2		5SY7102-7	1AC	5SY7102-8	1	1 unit	1AA	0.162					
	3		5SY7103-7	1AC	5SY7103-8	1	1 unit	1AA	0.161					
	4		5SY7104-7	1AC	5SY7104-8	1	1 unit	1AA	0.159					
	6		5SY7106-7	1AC	5SY7106-8	1	1 unit	1AA	0.160					
	8		5SY7108-7	1AC	5SY7108-8	1	1 unit	1AA	0.154					
	10		5SY7110-7	1AC	5SY7110-8	1	1 unit	1AA	0.157					
	13		5SY7113-7	1AC	5SY7113-8	1	1 unit	1AA	0.159					
	16		5SY7116-7	1AC	5SY7116-8	1	1 unit	1AA	0.156					
	20		5SY7120-7	1AC	5SY7120-8	1	1 unit	1AA	0.165					
	25		5SY7125-7	1AC	5SY7125-8	1	1 unit	1AA	0.163					
	32		5SY7132-7	1AC	5SY7132-8	1	1 unit	1AA	0.165					
	40		5SY7140-7	1AC	5SY7140-8	1	1 unit	1AA	0.166					
50		5SY7150-7	1AC	5SY7150-8	1	1 unit	1AA	0.172						
63		5SY7163-7	1AC	5SY7163-8	1	1 unit	1AA	0.165						
	1P+N, 230 V AC													
	0.3	2	5SY7514-7	1AC	5SY7514-8	1	1 unit	1AA	0.323					
	0.5		5SY7505-7	1AC	5SY7505-8	1	1 unit	1AA	0.312					
	1		5SY7501-7	1AC	5SY7501-8	1	1 unit	1AA	0.319					
	1.6		5SY7515-7	1AC	5SY7515-8	1	1 unit	1AA	0.319					
	2		5SY7502-7	1AC	5SY7502-8	1	1 unit	1AA	0.319					
	3		5SY7503-7	1AC	5SY7503-8	1	1 unit	1AA	0.298					
	4		5SY7504-7	1AC	5SY7504-8	1	1 unit	1AA	0.308					
	6		5SY7506-7	1AC	5SY7506-8	1	1 unit	1AA	0.310					
	8		5SY7508-7	1AC	5SY7508-8	1	1 unit	1AA	0.286					
	10		5SY7510-7	1AC	5SY7510-8	1	1 unit	1AA	0.304					
	13		5SY7513-7	1AC	5SY7513-8	1	1 unit	1AA	0.304					
	16		5SY7516-7	1AC	5SY7516-8	1	1 unit	1AA	0.307					
	20		5SY7520-7	1AC	5SY7520-8	1	1 unit	1AA	0.320					
	25		5SY7525-7	1AC	5SY7525-8	1	1 unit	1AA	0.313					
	32		5SY7532-7	1AC	5SY7532-8	1	1 unit	1AA	0.326					
	40		5SY7540-7	1AC	5SY7540-8	1	1 unit	1AA	0.324					
50		5SY7550-7	1AC	5SY7550-8	1	1 unit	1AA	0.323						
63		5SY7563-7	1AC	5SY7563-8	1	1 unit	1AA	0.308						
	2P, 400 V AC													
	0.3	2	5SY7214-7	1AC	5SY7214-8	1	1 unit	1AA	0.322					
	0.5		5SY7205-7	1AC	5SY7205-8	1	1 unit	1AA	0.325					
	1		5SY7201-7	1AC	5SY7201-8	1	1 unit	1AA	0.328					
	1.6		5SY7215-7	1AC	5SY7215-8	1	1 unit	1AA	0.330					
	2		5SY7202-7	1AC	5SY7202-8	1	1 unit	1AA	0.318					
	3		5SY7203-7	1AC	5SY7203-8	1	1 unit	1AA	0.313					
	4		5SY7204-7	1AC	5SY7204-8	1	1 unit	1AA	0.308					
	6		5SY7206-7	1AC	5SY7206-8	1	1 unit	1AA	0.313					
	8		5SY7208-7	1AC	5SY7208-8	1	1 unit	1AA	0.302					
	10		5SY7210-7	1AC	5SY7210-8	1	1 unit	1AA	0.305					
	13		5SY7213-7	1AC	5SY7213-8	1	1 unit	1AA	0.320					
	16		5SY7216-7	1AC	5SY7216-8	1	1 unit	1AA	0.304					
	20		5SY7220-7	1AC	5SY7220-8	1	1 unit	1AA	0.316					
	25		5SY7225-7	1AC	5SY7225-8	1	1 unit	1AA	0.318					
	32		5SY7232-7	1AC	5SY7232-8	1	1 unit	1AA	0.323					
	40		5SY7240-7	1AC	5SY7240-8	1	1 unit	1AA	0.330					
50		5SY7250-7	1AC	5SY7250-8	1	1 unit	1AA	0.308						
63		5SY7263-7	1AC	5SY7263-8	1	1 unit	1AA	0.332						

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

5SY and 5SP Miniature Circuit Breakers

5SY7, 15000 A

15000		I_n	Mount- ing width	DT	Characteristic C			Characteristic D			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
					Article No. www.siemens.com/ product?Article No.	Price per PU	PG DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PG				
Miniature circuit breakers 15000 A														
3P, 400 V AC														
		0.3	3		5SY7314-7		1AC	5SY7314-8		1	1 unit	1AA	0.480	
		0.5			5SY7305-7		1AC	5SY7305-8		1	1 unit	1AA	0.480	
		1			5SY7301-7		1AC	5SY7301-8		1	1 unit	1AA	0.458	
		1.6			5SY7315-7		1AC	5SY7315-8		1	1 unit	1AA	0.470	
		2			5SY7302-7		1AC	5SY7302-8		1	1 unit	1AA	0.471	
		3			5SY7303-7		1AC	5SY7303-8		1	1 unit	1AA	0.460	
		4			5SY7104-7		1AC	5SY7304-8		1	1 unit	1AA	0.452	
		6			5SY7306-7		1AC	5SY7306-8		1	1 unit	1AA	0.470	
		8			5SY7308-7		1AC	5SY7308-8		1	1 unit	1AA	0.457	
		10			5SY7310-7		1AC	5SY7310-8		1	1 unit	1AA	0.450	
		13			5SY7313-7		1AC	5SY7313-8		1	1 unit	1AA	0.445	
		16			5SY7316-7		1AC	5SY7316-8		1	1 unit	1AA	0.451	
		20			5SY7320-7		1AC	5SY7320-8		1	1 unit	1AA	0.473	
		25			5SY7325-7		1AC	5SY7325-8		1	1 unit	1AA	0.469	
		32			5SY7332-7		1AC	5SY7332-8		1	1 unit	1AA	0.480	
		40			5SY7340-7		1AC	5SY7340-8		1	1 unit	1AA	0.478	
	50			5SY7350-7		1AC	5SY7350-8		1	1 unit	1AA	0.484		
	63			5SY7363-7		1AC	5SY7363-8		1	1 unit	1AA	0.492		
3P+N, 400 V AC														
		0.3	4		5SY7614-7		1AC	5SY7614-8		1	1 unit	1AA	0.660	
		0.5			5SY7605-7		1AC	5SY7605-8		1	1 unit	1AA	0.660	
		1			5SY7601-7		1AC	5SY7601-8		1	1 unit	1AA	0.660	
		1.6			5SY7615-7		1AC	5SY7615-8		1	1 unit	1AA	0.660	
		2			5SY7602-7		1AC	5SY7602-8		1	1 unit	1AA	0.624	
		3			5SY7603-7		1AC	5SY7603-8		1	1 unit	1AA	0.660	
		4			5SY7604-7		1AC	5SY7604-8		1	1 unit	1AA	0.608	
		6			5SY7606-7		1AC	5SY7606-8		1	1 unit	1AA	0.590	
		8			5SY7608-7		1AC	5SY7608-8		1	1 unit	1AA	0.600	
		10			5SY7610-7		1AC	5SY7610-8		1	1 unit	1AA	0.593	
		13			5SY7613-7		1AC	5SY7613-8		1	1 unit	1AA	0.599	
		16			5SY7616-7		1AC	5SY7616-8		1	1 unit	1AA	0.585	
		20			5SY7620-7		1AC	5SY7620-8		1	1 unit	1AA	0.617	
		25			5SY7625-7		1AC	5SY7625-8		1	1 unit	1AA	0.621	
		32			5SY7632-7		1AC	5SY7632-8		1	1 unit	1AA	0.634	
		40			5SY7640-7		1AC	5SY7640-8		1	1 unit	1AA	0.645	
	50			5SY7650-7		1AC	5SY7650-8		1	1 unit	1AA	0.660		
	63			5SY7663-7		1AC	5SY7663-8		1	1 unit	1AA	0.643		
4P, 400 V AC														
		0.3	4		5SY7414-7		1AC	5SY7414-8		1	1 unit	1AA	0.635	
		0.5			5SY7405-7		1AC	5SY7405-8		1	1 unit	1AA	0.655	
		1			5SY7401-7		1AC	5SY7401-8		1	1 unit	1AA	0.630	
		1.6			5SY7415-7		1AC	5SY7415-8		1	1 unit	1AA	0.660	
		2			5SY7402-7		1AC	5SY7402-8		1	1 unit	1AA	0.624	
		3			5SY7403-7		1AC	5SY7403-8		1	1 unit	1AA	0.616	
		4			5SY7404-7		1AC	5SY7404-8		1	1 unit	1AA	0.624	
		6			5SY7406-7		1AC	5SY7406-8		1	1 unit	1AA	0.615	
		8			5SY7408-7		1AC	5SY7408-8		1	1 unit	1AA	0.603	
		10			5SY7410-7		1AC	5SY7410-8		1	1 unit	1AA	0.602	
		13			5SY7413-7		1AC	5SY7413-8		1	1 unit	1AA	0.608	
		16			5SY7416-7		1AC	5SY7416-8		1	1 unit	1AA	0.598	
		20			5SY7420-7		1AC	5SY7420-8		1	1 unit	1AA	0.624	
		25			5SY7425-7		1AC	5SY7425-8		1	1 unit	1AA	0.622	
		32			5SY7432-7		1AC	5SY7432-8		1	1 unit	1AA	0.638	
		40			5SY7440-7		1AC	5SY7440-8		1	1 unit	1AA	0.636	
	50			5SY7450-7		1AC	5SY7450-8		1	1 unit	1AA	0.658		
	63			5SY7463-7		1AC	5SY7463-8		1	1 unit	1AA	0.654		

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

5SY and 5SP Miniature Circuit Breakers

5SY8, 25000 A

Selection and ordering data

I_n	Mounting width	DT	Characteristic C			Characteristic D			PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
			Article No. www.siemens.com/product?Article.No.	Price per PU	PG	DT	Article No. www.siemens.com/product?Article.No.	Price per PU				
Miniature circuit breakers 25000 A												
1P, 230/400 V AC												
0.3	1		5SY8114-7		1AC	5SY8114-8		1	1 unit	1AA	0.165	
0.5			5SY8105-7		1AC	5SY8105-8		1	1 unit	1AA	0.165	
1			5SY8101-7		1AC	5SY8101-8		1	1 unit	1AA	0.172	
1.6			5SY8115-7		1AC	5SY8115-8		1	1 unit	1AA	0.162	
2			5SY8102-7		1AC	5SY8102-8		1	1 unit	1AA	0.162	
3			5SY8103-7		1AC	5SY8103-8		1	1 unit	1AA	0.161	
4			5SY8104-7		1AC	5SY8104-8		1	1 unit	1AA	0.158	
6			5SY8106-7		1AC	5SY8106-8		1	1 unit	1AA	0.160	
8			5SY8108-7		1AC	5SY8108-8		1	1 unit	1AA	0.156	
10			5SY8110-7		1AC	5SY8110-8		1	1 unit	1AA	0.157	
13			5SY8113-7		1AC	5SY8113-8		1	1 unit	1AA	0.154	
16			5SY8116-7		1AC	5SY8116-8		1	1 unit	1AA	0.157	
20			5SY8120-7		1AC	5SY8120-8		1	1 unit	1AA	0.165	
25			5SY8125-7		1AC	5SY8125-8		1	1 unit	1AA	0.162	
32			5SY8132-7		1AC	5SY8132-8		1	1 unit	1AA	0.165	
40			5SY8140-7		1AC	5SY8140-8		1	1 unit	1AA	0.169	
50			5SY8150-7		1AC	5SY8150-8		1	1 unit	1AA	0.170	
63			5SY8163-7		1AC	5SY8163-8		1	1 unit	1AA	0.160	
1P+N, 230 V AC												
0.3	2		5SY8514-7		1AC	5SY8514-8		1	1 unit	1AA	0.322	
0.5			5SY8505-7		1AC	5SY8505-8		1	1 unit	1AA	0.323	
1			5SY8501-7		1AC	5SY8501-8		1	1 unit	1AA	0.330	
1.6			5SY8515-7		1AC	5SY8515-8		1	1 unit	1AA	0.324	
2			5SY8502-7		1AC	5SY8502-8		1	1 unit	1AA	0.317	
3			5SY8503-7		1AC	5SY8503-8		1	1 unit	1AA	0.318	
4			5SY8504-7		1AC	5SY8504-8		1	1 unit	1AA	0.307	
6			5SY8506-7		1AC	5SY8506-8		1	1 unit	1AA	0.319	
8			5SY8508-7		1AC	5SY8508-8		1	1 unit	1AA	0.313	
10			5SY8510-7		1AC	5SY8510-8		1	1 unit	1AA	0.304	
13			5SY8513-7		1AC	5SY8513-8		1	1 unit	1AA	0.305	
16			5SY8516-7		1AC	5SY8516-8		1	1 unit	1AA	0.303	
20			5SY8520-7		1AC	5SY8520-8		1	1 unit	1AA	0.313	
25			5SY8525-7		1AC	5SY8525-8		1	1 unit	1AA	0.312	
32			5SY8532-7		1AC	5SY8532-8		1	1 unit	1AA	0.323	
40			5SY8540-7		1AC	5SY8540-8		1	1 unit	1AA	0.325	
50			5SY8550-7		1AC	5SY8550-8		1	1 unit	1AA	0.326	
63			5SY8563-7		1AC	5SY8563-8		1	1 unit	1AA	0.336	
2P, 400 V AC												
0.3	2		5SY8214-7		1AC	5SY8214-8		1	1 unit	1AA	0.330	
0.5			5SY8205-7		1AC	5SY8205-8		1	1 unit	1AA	0.325	
1			5SY8201-7		1AC	5SY8201-8		1	1 unit	1AA	0.322	
1.6			5SY8215-7		1AC	5SY8215-8		1	1 unit	1AA	0.316	
2			5SY8202-7		1AC	5SY8202-8		1	1 unit	1AA	0.318	
3			5SY8203-7		1AC	5SY8203-8		1	1 unit	1AA	0.314	
4			5SY8204-7		1AC	5SY8204-8		1	1 unit	1AA	0.310	
6			5SY8206-7		1AC	5SY8206-8		1	1 unit	1AA	0.309	
8			5SY8208-7		1AC	5SY8208-8		1	1 unit	1AA	0.306	
10			5SY8210-7		1AC	5SY8210-8		1	1 unit	1AA	0.301	
13			5SY8213-7		1AC	5SY8213-8		1	1 unit	1AA	0.305	
16			5SY8216-7		1AC	5SY8216-8		1	1 unit	1AA	0.304	
20			5SY8220-7		1AC	5SY8220-8		1	1 unit	1AA	0.305	
25			5SY8225-7		1AC	5SY8225-8		1	1 unit	1AA	0.315	
32			5SY8232-7		1AC	5SY8232-8		1	1 unit	1AA	0.340	
40			5SY8240-7		1AC	5SY8240-8		1	1 unit	1AA	0.332	
50			5SY8250-7		1AC	5SY8250-8		1	1 unit	1AA	0.330	
63			5SY8263-7		1AC	5SY8263-8		1	1 unit	1AA	0.330	

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

Miniature Circuit Breakers

5SY and 5SP Miniature Circuit Breakers

5SY8, 25000 A

I_n	Mounting width	DT	Characteristic C			Characteristic D			PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
			Article No. www.siemens.com/product?Article No.	Price per PU	PG	DT	Article No. www.siemens.com/product?Article No.	Price per PU				
Miniature circuit breakers 25000 A												
3P, 400 V AC												
0.3	3		5SY8314-7		1AC	5SY8314-8		1	1 unit	1AA	0.477	
0.5			5SY8305-7		1AC	5SY8305-8		1	1 unit	1AA	0.482	
1			5SY8301-7		1AC	5SY8301-8		1	1 unit	1AA	0.480	
1.6			5SY8315-7		1AC	5SY8315-8		1	1 unit	1AA	0.466	
2			5SY8302-7		1AC	5SY8302-8		1	1 unit	1AA	0.471	
3			5SY8303-7		1AC	5SY8303-8		1	1 unit	1AA	0.467	
4			5SY8304-7		1AC	5SY8304-8		1	1 unit	1AA	0.473	
6			5SY8306-7		1AC	5SY8306-8		1	1 unit	1AA	0.459	
8			5SY8308-7		1AC	5SY8308-8		1	1 unit	1AA	0.451	
10			5SY8310-7		1AC	5SY8310-8		1	1 unit	1AA	0.444	
13			5SY8313-7		1AC	5SY8313-8		1	1 unit	1AA	0.453	
16			5SY8316-7		1AC	5SY8316-8		1	1 unit	1AA	0.446	
20			5SY8320-7		1AC	5SY8320-8		1	1 unit	1AA	0.476	
25			5SY8325-7		1AC	5SY8325-8		1	1 unit	1AA	0.469	
32			5SY8332-7		1AC	5SY8332-8		1	1 unit	1AA	0.486	
40			5SY8340-7		1AC	5SY8340-8		1	1 unit	1AA	0.494	
50			5SY8350-7		1AC	5SY8350-8		1	1 unit	1AA	0.491	
63			5SY8363-7		1AC	5SY8363-8		1	1 unit	1AA	0.498	
3P+N, 400 V AC												
0.3	4		5SY8614-7		1AC	5SY8614-8		1	1 unit	1AA	0.660	
0.5			5SY8605-7		1AC	5SY8605-8		1	1 unit	1AA	0.660	
1			5SY8601-7		1AC	5SY8601-8		1	1 unit	1AA	0.660	
1.6			5SY8615-7		1AC	5SY8615-8		1	1 unit	1AA	0.624	
2			5SY8602-7		1AC	5SY8602-8		1	1 unit	1AA	0.631	
3			5SY8603-7		1AC	5SY8603-8		1	1 unit	1AA	0.621	
4			5SY8604-7		1AC	5SY8604-8		1	1 unit	1AA	0.609	
6			5SY8606-7		1AC	5SY8606-8		1	1 unit	1AA	0.611	
8			5SY8608-7		1AC	5SY8608-8		1	1 unit	1AA	0.660	
10			5SY8610-7		1AC	5SY8610-8		1	1 unit	1AA	0.596	
13			5SY8613-7		1AC	5SY8613-8		1	1 unit	1AA	0.609	
16			5SY8616-7		1AC	5SY8616-8		1	1 unit	1AA	0.601	
20			5SY8620-7		1AC	5SY8620-8		1	1 unit	1AA	0.612	
25			5SY8625-7		1AC	5SY8625-8		1	1 unit	1AA	0.601	
32			5SY8632-7		1AC	5SY8632-8		1	1 unit	1AA	0.627	
40			5SY8640-7		1AC	5SY8640-8		1	1 unit	1AA	0.652	
50			5SY8650-7		1AC	5SY8650-8		1	1 unit	1AA	0.652	
63			5SY8663-7		1AC	5SY8663-8		1	1 unit	1AA	0.651	
4P, 400 V AC												
0.3	4		5SY8414-7		1AC	5SY8414-8		1	1 unit	1AA	0.637	
0.5			5SY8405-7		1AC	5SY8405-8		1	1 unit	1AA	0.660	
1			5SY8401-7		1AC	5SY8401-8		1	1 unit	1AA	0.636	
1.6			5SY8415-7		1AC	5SY8415-8		1	1 unit	1AA	0.624	
2			5SY8402-7		1AC	5SY8402-8		1	1 unit	1AA	0.660	
3			5SY8403-7		1AC	5SY8403-8		1	1 unit	1AA	0.638	
4			5SY8404-7		1AC	5SY8404-8		1	1 unit	1AA	0.604	
6			5SY8406-7		1AC	5SY8406-8		1	1 unit	1AA	0.609	
8			5SY8408-7		1AC	5SY8408-8		1	1 unit	1AA	0.598	
10			5SY8410-7		1AC	5SY8410-8		1	1 unit	1AA	0.589	
13			5SY8413-7		1AC	5SY8413-8		1	1 unit	1AA	0.600	
16			5SY8416-7		1AC	5SY8416-8		1	1 unit	1AA	0.594	
20			5SY8420-7		1AC	5SY8420-8		1	1 unit	1AA	0.624	
25			5SY8425-7		1AC	5SY8425-8		1	1 unit	1AA	0.627	
32			5SY8432-7		1AC	5SY8432-8		1	1 unit	1AA	0.640	
40			5SY8440-7		1AC	5SY8440-8		1	1 unit	1AA	0.655	
50			5SY8450-7		1AC	5SY8450-8		1	1 unit	1AA	0.634	
63			5SY8463-7		1AC	5SY8463-8		1	1 unit	1AA	0.658	

¹⁾ 1 MW (modular width) = 18 mm.

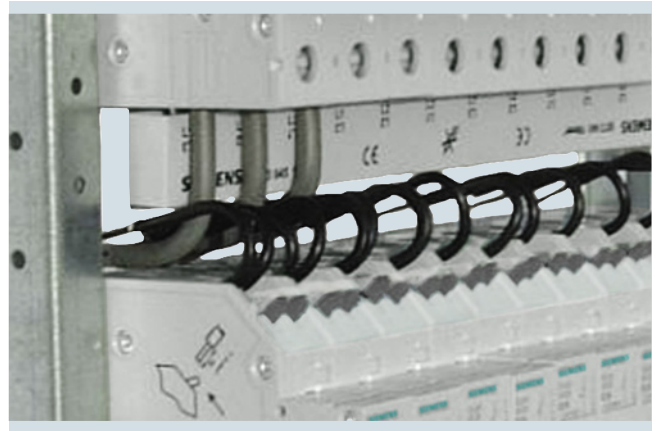
Overview

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

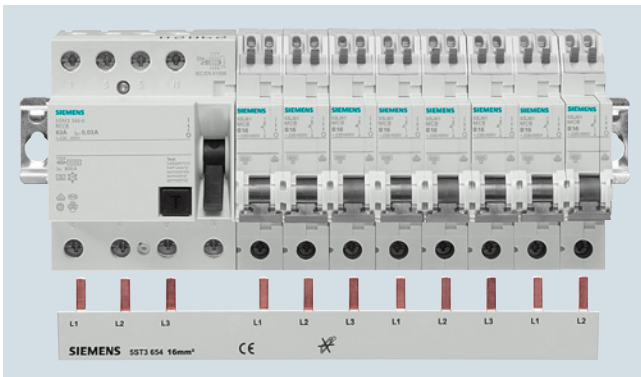
Benefits



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



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



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

Miniature Circuit Breakers

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






Technical specifications

		5SJ6...-KS
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
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.

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

Selection and ordering data

6000 3		I_n	Mounting width	DT	Characteristic B		PG DT	Characteristic C		PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg				
					Article No. www.siemens.com/product?Article No.	Price per PU		Article No. www.siemens.com/product?Article No.	Price per PU								
Miniature circuit breakers with plug-in terminal																	
	1P	10	1			5SJ6110-6KS		1AB	5SJ6110-7KS	1	1 unit	1AC	0.115				
		13				5SJ6113-6KS			5SJ6113-7KS					1	1 unit	1AC	0.124
		16				5SJ6116-6KS			5SJ6116-7KS					1	1/12 units	1AC	0.113
		20				5SJ6120-6KS			5SJ6120-7KS					1	1 unit	1AC	0.122
	1P+N	10	2			5SJ6510-6KS		1AB	5SJ6510-7KS	1	1 unit	1AC	0.220				
		13				5SJ6513-6KS			5SJ6513-7KS					1	1 unit	1AC	0.221
		16				5SJ6516-6KS			5SJ6516-7KS					1	1 unit	1AC	0.218
		20				5SJ6520-6KS			5SJ6520-7KS					1	1 unit	1AC	0.218
	2P	10	2			5SJ6210-6KS		1AB	5SJ6210-7KS	1	1 unit	1AC	0.239				
		13				5SJ6213-6KS			5SJ6213-7KS					1	1 unit	1AC	0.239
		16				5SJ6216-6KS			5SJ6216-7KS					1	1 unit	1AC	0.239
		20				5SJ6220-6KS			5SJ6220-7KS					1	1 unit	1AC	0.239
	3P	10	3			5SJ6310-6KS		1AB	5SJ6310-7KS	1	1/4 units	1AC	0.356				
		13				5SJ6313-6KS			5SJ6313-7KS					1	1/4 units	1AC	0.353
		16				5SJ6316-6KS			5SJ6316-7KS					1	1/4 units	1AC	0.351
		20				5SJ6320-6KS			5SJ6320-7KS					1	1/4 units	1AC	0.350

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

Miniature Circuit Breakers

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

Introduction

Overview

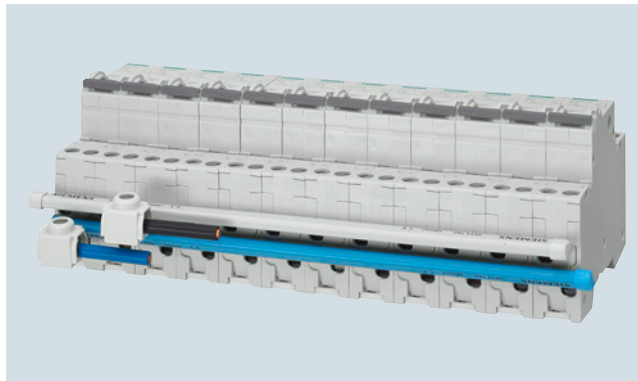
These miniature circuit breakers are used for the protection of systems and installations with switched neutral conductors in distribution boards with little space. They are just a single modular width.

Compact busbars facilitate installation in space-saving distribution boards.

Benefits



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



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

Technical specifications

		5SY30..	5SY60..
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	250	
	V	72	
	DC/pole		
Rated making and 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	± Screw (Pozidriv)	2	
• Solid and stranded, top and bottom terminal	mm 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 sec)

Miniature Circuit Breakers

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

5SY30, 4500 A

Selection and ordering data

4 500 3		I_n	Mounting width	DT	Characteristic B			Characteristic C			PU	PS*/P. unit	PG	Weight per PU approx.
		A	MW ¹⁾		Article No. www.siemens.com/product?Article No.	Price per PU	PG	DT	Article No. www.siemens.com/product?Article No.	Price per PU	(UNIT, SET, M)			kg
Miniature circuit breakers 4500 A														
1P+N, 230 V AC														
N connection, right														
2														
4														
6														
8														
10														
13														
16														
20														
25														
32														
40														
N connection, left														
2														
4														
6														
8														
10														
13														
16														
20														
25														
32														
40														




¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

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

5SY60, 6000 A

Selection and ordering data

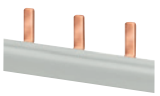
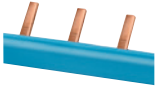
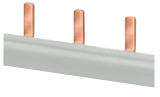





6000 3			I_n	Mount- ing width	DT	Characteristic B			Characteristic C			PU	PS*/ P. unit	PG	Weight per PU approx.	
				A	MW ¹⁾	Article No. www.siemens.com/ product?Article No.	Price per PU	PG	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	(UNIT, SET, M)			kg	
Miniature circuit breakers, compact, 1+N (1P+N), 230 V AC																
N pole, right																
				2	1	--				5SY6002-7		1	1 unit	1AC	0.120	
				4		--				5SY6004-7		1	1 unit	1AC	0.120	
				6		5SY6006-6		1AB		5SY6006-7		1	1/120 units	1AC	0.108	
				8		--				5SY6008-7		1	1 unit	1AC	0.120	
				10		5SY6010-6		1AB		5SY6010-7		1	1/120 units	1AC	0.109	
				13		5SY6013-6		1AB		5SY6013-7		1	1 unit	1AC	0.109	
				16		5SY6016-6		1AB		5SY6016-7		1	1/120 units	1AC	0.108	
				20		5SY6020-6		1AB		5SY6020-7		1	1/120 units	1AC	0.110	
				25		5SY6025-6		1AB		5SY6025-7		1	1 unit	1AC	0.117	
				32		5SY6032-6		1AB		5SY6032-7		1	1 unit	1AC	0.126	
				40		5SY6040-6		1AB		5SY6040-7		1	1 unit	1AC	0.127	
N pole, left																
				2	1	--				5SY6002-7KL		1	1 unit	1AC	0.101	
				4		--				5SY6004-7KL		1	1 unit	1AC	0.122	
				6		5SY6006-6KL		1AB		5SY6006-7KL		1	1 unit	1AC	0.126	
				8		--				5SY6008-7KL		1	1 unit	1AC	0.122	
				10		5SY6010-6KL		1AB		5SY6010-7KL		1	1 unit	1AC	0.118	
				13		5SY6013-6KL		1AB		5SY6013-7KL		1	1 unit	1AC	0.111	
				16		5SY6016-6KL		1AB		5SY6016-7KL		1	1 unit	1AC	0.103	
				20		5SY6020-6KL		1AB		5SY6020-7KL		1	1 unit	1AC	0.122	
				25		5SY6025-6KL		1AB		5SY6025-7KL		1	1 unit	1AC	0.126	
				32		5SY6032-6KL		1AB		5SY6032-7KL		1	1 unit	1AC	0.133	
				40		5SY6040-6KL		1AB		5SY6040-7KL		1	1 unit	1AC	0.100	

Miniature Circuit Breakers

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

5SY60, 6000 A

3

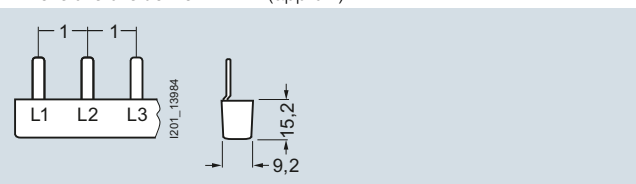
	Pin spacing	Length	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
	MW ¹⁾	mm							kg	
5ST37 busbar system, 10 mm², for 1+N miniature circuit breakers in 1 MW of the compact range, can be cut, with end caps										
	Single-phase, 12 MW									
	For 12 MCBs 1+N, gray	1	216	5ST3762		1	10 units	1AD	0.034	
	For 12 MCBs 1+N, blue									
			216	5ST3763		1	10 units	1AD	0.034	
Single-phase										
	For MCBs 1+N, gray		1	1016	5ST3764		1	10 units	1AD	0.134
		For MCBs 1+N, blue			1016	5ST3765		1	10 units	1AD
End caps for 5ST376 busbars										
	1 set comprises a right and a left cap									
	Gray				5ST3766		1	10 sets	1AD	0.001
	Blue									
				5ST3767		1	10 sets	1AD	0.001	
5ST36 busbar systems, 10 mm², 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	0.033
	For 9 MCBs 1+N			257.5	5ST3614		1	10 units	1AD	0.055
	For 12 MCBs 1+N			210	5ST3615		1	10 units	1AD	0.078
Terminals for 5ST376										
	Side terminal version									
	For conductors up to 25 mm ²				5ST3768		1	25 units	1AD	0.012

¹⁾ 1 MW (modular width) = 18 mm.

Dimensional drawings

5ST36
Pin spacing in MW

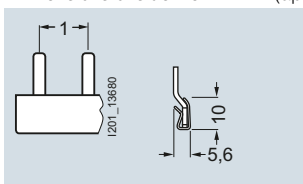
Dimensions of side view in mm (approx.).



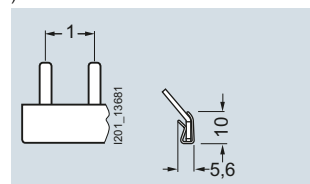
5ST3613
5ST3614
5ST3615

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

Auxiliary switches (AS)

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

Fault signal contacts (FC)

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

Shunt trips (ST)

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

Undervoltage releases (UR)

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

Remote controlled mechanisms (RC)

Remote controlled mechanisms are used for the remote ON/OFF switching of miniature circuit breakers and the remote ON switching of RC units, as well as the local manual switching of these devices. A blocking function permits maintenance work. In the event that a miniature circuit breaker or RC unit is tripped, an acknowledgment must be carried out prior to switching back on. The remote controlled mechanism has an operating mode selector switch with the functions: "Locked", "Manual" and "Remote Switching".

Selector switch position:

OFF: 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.

In the event that a device is tripped by a fault (RC units, miniature circuit breakers), the handle of the basic device and remote controlled mechanism switches to the OFF position. The operator must then acknowledge the tripping by resetting the remote controlled mechanism (OFF command) before it can be reactivated. This serves the safety of the installation or to protect personnel during maintenance work.

In an RC unit/miniature circuit breaker combination, the RC unit is switched on asynchronously, i.e. before switching on the miniature circuit breaker. The RC units for 5SY and 5SP4 can be switched ON via the MCB handle jumper using the supplied actuator attachment. There is no need to switch off the RC unit via the remote controlled mechanism as the MCB contacts ensure disconnection of the electrical circuit.

The switching frequency is max. 2 actuations per minute. If this actuation frequency is exceeded it may cause internal tripping of the remote controlled mechanism as a protection against possible overload. In this case, the remote controlled mechanism must be switched OFF at the function selector switch and not switched back on again for at least 5 minutes. More additional 5ST3... 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.

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)".

Benefits

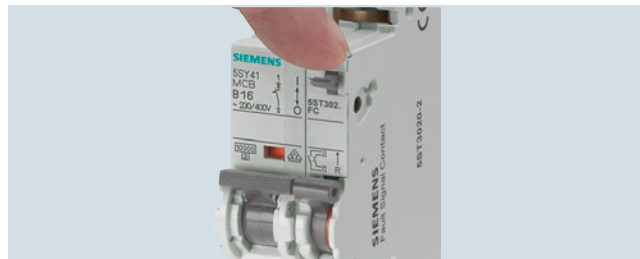
Can be universally retrofitted with all additional components



- 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.

Technical specifications

	Auxiliary switches (AS)			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⁾		5ST3020, 5ST3020-2 5ST3021, 5ST3021-2 5ST3022, 5ST3022-2	
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 mA/5 V DC		50 mA, 24 V	
• Max.	--	1) = 100 mA/30 V DC 2) = 50 mA/30 V DC		--	
• 400 V AC, AC-14, NO	A 2	--		2	
• 230 V AC, AC-14, NO	A 6	--		6	
• 400 V AC, AC-13, NC	A 2	--		2	
• 230 V AC, AC-13, NC	A 6	--		6	
• 220 V DC, DC-13, NO+NC	A 1	--		1	
• 110 V DC, DC-13, NO+NC	A 1	--		1	
• 60 V DC, DC-13, NO+NC	A 3	--		3	
• 24 V DC, DC-13, NO+NC	A 6	--		6	
Service life, on average, with rated load	20000 actuations	20000 actuations		20000 actuations	
Conductor cross-sections	mm ² AWG	0.5 ... 2.5 22 ... 14	0.5 ... 2.5 22 ... 14	0.5 ... 2.5 22 ... 14	
Terminals					
• Terminal tightening torque	Nm lbs/in.	0.5 4.5	0.5 4.5	0.5 4.5	
Rated frequency	Hz	50/60			
Mounting position		Any	Any	Any	
Ambient temperature	°C	-25 ... +55	-25 ... +55	-25 ... +55	
Storage temperature	°C	-40 ... +75	-40 ... +75	-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			
	Undervoltage releases (UR)		Shunt trips (ST)		Remote controlled mechanisms (RC)
	5ST304.		5ST3030	5ST3031	5ST3050, 5ST3052
Standards	EN 60947-1				
Rated voltages U_n	V AC	230	110 ... 415	24 ... 48	230
	V DC	24, 110	110	24 ... 48	--
• Operating range U_n		0.85 ... 1.1 x U_n	0.7 ... 1.1 x U_n		0.9 ... 1.15 x U_n
• Rated frequency f_n	Hz	--	50 ... 60		50 ... 60
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	50 mA, 24 V		--
Tripping operations		max. 2000	max. 2000		--
Service life, on average, with rated load		20000 actuations	20000 actuations		20000 actuations 5000 at RC unit
Conductor cross-sections	mm ² AWG	0.5 ... 2.5 22 ... 14	0.5 ... 2.5 22 ... 14		0.5 ... 2.5 22 ... 14
Terminals					
• Terminal tightening torque	Nm lbs/in.	0.8 6.8	0.8 6.8		0.4 ... 0.5 4.5
Mounting position		Any	Any		Any
Ambient temperature	°C	-25 ... +55	-25 ... +55		-20 ... +55
Storage temperature	°C	-40 ... +75	-40 ... +75		-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		--			2 actuations per minute
Switching duration	s	--			< 2
Minimum command duration	s	--			0.2 continuous command possible
Rated power dissipation	VA	--			No power consumption, in switching operation 26
Rated frequency	Hz	50/60			
Behavior in the event of control voltage failure		--			No change








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

Miniature Circuit Breakers



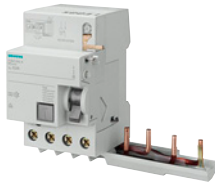


Additional Components

Electrical components

Selection and ordering data

	Rated voltage U_n V	Mounting width MW ¹⁾	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	
	Auxiliary switches (AS) For 5SL, 5SY, 5SP and 5TL1 miniature circuit breakers, 5SU1 RCBOs, for 5SV residual current protective device and 5TE8 switches									
	1 NO + 1 NC For low power	0.5	▶	5ST3010 5ST3013		1 1	1 unit 1/138 units	1AD 1AD	0.055 0.064	
	2 NO For low power			5ST3011 5ST3014		1 1	1/138 units 1 unit	1AD 1AD	0.065 0.065	
	2 NC For low power			5ST3012 5ST3015		1 1	1/138 units 1 unit	1AD 1AD	0.066 0.064	
	Auxiliary switches (AS) with TEST button For 5SL, 5SY, 5SP and 5TL1 miniature circuit breakers, 5SU1, 5TL1 RCBOs, for 5SV residual current protective device and 5TE8 switches									
	1 NO + 1 NC For low power	0.5		5ST3010-2 5ST3013-2		1 1	1 unit 1 unit	1AD 1AD	0.071 0.069	
	2 NO For low power			5ST3011-2 5ST3014-2		1 1	1 unit 1 unit	1AD 1AD	0.068 0.065	
	2 NC For low power			5ST3012-2 5ST3015-2		1 1	1 unit 1 unit	1AD 1AD	0.071 0.071	
	Fault signal contacts (FC) For 5SL, 5SY, 5SP miniature circuit breakers, 5SU1 RCBOs, for 5SV residual current protective device									
	1 NO + 1 NC	0.5	▶	5ST3020		1	1/138 units	1AD	0.066	
	2 NO 2 NC			5ST3021 5ST3022		1 1	1 unit 1 unit	1AD 1AD	0.065 0.065	
	Fault signal contacts (FC) with TEST and ACKNOWLEDGE button For 5SL, 5SY, 5SP miniature circuit breakers, 5SU1 RCBOs, for 5SV residual current protective device									
	1 NO + 1 NC	0.5	▶	5ST3020-2		1	1 unit	1AD	0.072	
	2 NO 2 NC			5ST3021-2 5ST3022-2		1 1	1 unit 1 unit	1AD 1AD	0.067 0.068	
	Undervoltage releases (UR) For 5SL4, 5SY, 5SP miniature circuit breakers, 5SU1 RCBOs, for 5SV residual current protective device, but not for 5SY60.. and 5SL6 miniature circuit breakers									
	With integrated auxiliary switch									
	230 AC	1	▶	5ST3040		1	1/100 units	1AD	0.114	
	110 DC			5ST3041		1	1 unit	1AD	0.110	
	24 DC			5ST3042		1	1 unit	1AD	0.111	
	Without integrated auxiliary switch									
230 AC	1	▶	5ST3043		1	1 unit	1AD	0.102		
110 DC			5ST3044		1	1 unit	1AD	0.098		
24 DC			5ST3045		1	1 unit	1AD	0.097		
	Shunt trips (ST) For 5SL4, 5SY, 5SP miniature circuit breakers, 5SU1 RCBOs, for 5SV residual current protective device, but not for 5SY60.. and 5SL6 miniature circuit breakers									
	110 ... 415 V AC	1	▶	5ST3030		1	1/100 units	1AD	0.099	
	24 ... 48 V AC/DC	1	▶	5ST3031		1	1/100 units	1AD	0.099	
	Remote controlled mechanisms (RC) For 5SY and 5SP miniature circuit breakers and 5SU1 RCBOs, but not for 5SL3, 5SL6, 5TE8...CC miniature circuit breakers									
	230 AC	3.5	▶	5ST3050		1	1 unit	1AD	0.447	
For 5SL4 miniature circuit breakers only NEW										
	230 AC	3.5		5ST3052		1	1 unit	1AD	0.448	

¹⁾ 1 MW (modular width) = 18 mm.





	Rated residual current	Rated current	Mounting width	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	$I_{\Delta n}$ mA	I_n A		MW ¹⁾						kg
RC units, type A, instantaneous tripping										
	For 5SY miniature circuit breakers, but not for 5SY5, 5SY8, 5SY60... and 5SL miniature circuit breakers									
	2P, 230 ... 400 V AC, 50 ... 60 Hz									
	10	0.3 ... 16	2		5SM2121-6		1	1 unit	1AH	0.203
	30	0.3 ... 40			5SM2322-6		1	1/24 units	1AH	0.201
	300				5SM2622-6		1	1/24 units	1AH	0.194
	30	0.3 ... 63			5SM2325-6		1	1 unit	1AH	0.212
100				5SM2425-6		1	1 unit	1AH	0.207	
300				5SM2625-6		1	1 unit	1AH	0.194	
500				5SM2725-6		1	1 unit	1AH	0.194	
	For 5SY miniature circuit breakers, but not for 5SY5, 5SY8, 5SY60... and 5SL miniature circuit breakers									
	3P; 230 ... 400 V AC; 50 ... 60 Hz									
	30	0.3 ... 40	3		5SM2332-6		1	1 unit	1AH	0.300
	300				5SM2632-6		1	1 unit	1AH	0.288
	30	0.3 ... 63			5SM2335-6		1	1 unit	1AH	0.338
	100				5SM2435-6		1	1 unit	1AH	0.312
300				5SM2635-6		1	1 unit	1AH	0.289	
500				5SM2735-6		1	1 unit	1AH	0.294	
	For 5SY miniature circuit breakers, but not for 5SY5, 5SY8, 5SY60... and 5SL miniature circuit breakers									
	4P, 230 ... 400 V AC, 50 ... 60 Hz									
	30	0.3 ... 40	3		5SM2342-6		1	1 unit	1AH	0.327
	300				5SM2642-6		1	1 unit	1AH	0.322
	30	0.3 ... 63			5SM2345-6		1	1 unit	1AH	0.375
	100				5SM2445-6		1	1 unit	1AH	0.338
300				5SM2645-6		1	1 unit	1AH	0.319	
500				5SM2745-6		1	1 unit	1AH	0.319	
	For 5SP4 miniature circuit breakers (B and C characteristics)									
	2P, 125 ... 230 V AC, 50 ... 60 Hz									
	30	80 ... 100	3.5		5SM2327-6		1	1 unit	1AH	0.516
300				5SM2627-6		1	1 unit	1AH	0.467	
	For 5SP4 miniature circuit breakers (B and C characteristics)									
	4P, 230 ... 400 V AC, 50 ... 60 Hz									
	30	80 ... 100	5		5SM2347-6		1	1 unit	1AH	0.899
300				5SM2647-6		1	1 unit	1AH	0.682	

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

Additional Components

Electrical components

	Rated residual current	Rated current	Mounting width	DT	Article No. www.siemens.com/product?ArticleNo.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	$I_{\Delta n}$ mA	I_n A		MW ¹⁾						kg
RC units, type A, super resistant K										
	For 5SY miniature circuit breakers, but not for 5SY5, 5SY8, 5SY60... and 5SL miniature circuit breakers									
	2P, 230 ... 400 V AC, 50 ... 60 Hz									
	30	0.3 ... 40		2	5SM2322-6KK01		1	1 unit	1AH	0.211
	30	0.3 ... 63			5SM2325-6KK01		1	1 unit	1AH	0.213
	For 5SY miniature circuit breakers, but not for 5SY5, 5SY8, 5SY60... and 5SL miniature circuit breakers									
	3P; 230 ... 400 V AC; 50 ... 60 Hz									
30	0.3 ... 40		3	5SM2332-6KK01		1	1 unit	1AH	0.351	
	30	0.3 ... 63			5SM2335-6KK01		1	1 unit	1AH	0.338
For 5SY miniature circuit breakers, but not for 5SY5, 5SY8, 5SY60... and 5SL miniature circuit breakers										
4P, 230 ... 400 V AC, 50 ... 60 Hz										
30	0.3 ... 40		3	5SM2342-6KK01		1	1 unit	1AH	0.381	
	30	0.3 ... 63			5SM2345-6KK01		1	1 unit	1AH	0.386
RC units, type A, selective S										
	For 5SY miniature circuit breakers, but not for 5SY5, 5SY8, 5SY60... and 5SL miniature circuit breakers									
	2P, 230 ... 400 V AC, 50 ... 60 Hz									
	300	0.3 ... 40		2	5SM2622-8		1	1 unit	1AH	0.207
	300	0.3 ... 63			5SM2625-8		1	1 unit	1AH	0.205
	For 5SY miniature circuit breakers, but not for 5SY5, 5SY8, 5SY60... and 5SL miniature circuit breakers									
	3P; 230 ... 400 V AC; 50 ... 60 Hz									
300	0.3 ... 63		3	5SM2635-8		1	1 unit	1AH	0.338	
500				5SM2735-8		1	1 unit	1AH	0.301	
1000				5SM2835-8		1	1 unit	1AH	0.295	
	For 5SY miniature circuit breakers, but not for 5SY5, 5SY8, 5SY60... and 5SL miniature circuit breakers									
	4P, 230 ... 400 V AC, 50 ... 60 Hz									
	300	0.3 ... 63		3	5SM2645-8		1	1 unit	1AH	0.366
	500				5SM2745-8		1	1 unit	1AH	0.325
	1000				5SM2845-8		1	1 unit	1AH	0.327
		For 5SP4 miniature circuit breakers (B and C characteristics)								
2P, 125 ... 230 V AC, 50 ... 60 Hz										
300		80 ... 100		3.5	5SM2627-8		1	1 unit	1AH	0.514
For 5SP4 miniature circuit breakers (B and C characteristics)										
4P, 230 ... 400 V AC, 50 ... 60 Hz										
300		80 ... 100		5	5SM2647-8		1	1 unit	1AH	0.798
1000				5SM2847-8		1	1 unit	1AH	0.703	

¹⁾ 1 MW (modular width) = 18 mm.

Selection and ordering data





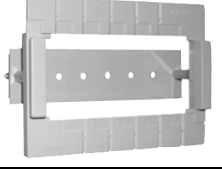

Version	Mounting width MW ¹⁾	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
 <p>Mechanical rotary operating mechanism complete with handle NEW</p> <ul style="list-style-type: none"> For 5SY, but not for 5SYx0 1+N in 1 MW For 5SP4, 5SL, 5TL1, 5TE2, 5TE8, 5SU1 <p>Versions</p> <ul style="list-style-type: none"> Handle black Handle red/yellow 			5ST3060 5ST3061		1 1	1 unit 1 unit	1AD 1AD	0.244 0.242
 <p>Terminal covers</p> <p>For miniature circuit breakers, but not for 5SY60 ...</p> <p>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.</p>			5ST3800		1	10 units	1AD	0.002
 <p>Handle locking devices</p> <p>Sealable to prevent undesired mechanical ON/OFF switching</p> <p>For 5SP and 5SY miniature circuit breakers For padlock with max. 3 mm shackle</p> <p>For 5SL, 5SV, 5TL1 miniature circuit breakers For padlock with 3 ... 6 mm shackle</p>			5ST3801		1	1 unit	1AD	0.011
				5ST3806		1	5 units	1AD
 <p>Padlocks</p> <p>For 5ST3801 and 5ST3806 handle locking device</p>			5ST3802		1	1 unit	1AD	0.033
<p>Locking devices</p> <p>For 5SP and 5SY miniature circuit breakers comprising 5ST3801 handle locking device and 5ST3802 padlock</p>			5ST3803		1	1 set	1AD	0.044
<p>Locking devices</p> <p>For 5SL, 5SV, 5TL1 miniature circuit breakers, comprising 5ST3806 handle locking device and 5ST3802 padlock</p>			5ST3807		1	1 set	1AD	0.024
 <p>Spacers</p> <p>Can be placed on either side of the standard mounting rail. Two spacers allow for convenient cable routing</p>	0.5		5TG8240		1	2 units	1BK	0.017
 <p>Fixing parts</p> <p>Made of plastic, for use on a mounting plate</p>			5ST2201		1	1 unit	1AD	0.012
 <p>Device labels NEW</p> <p>Adhesive, for modular installation devices, e.g. 5SY, 5SL, 5TL1, etc.</p> <p>Versions</p> <ul style="list-style-type: none"> 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	0.010 0.010

* You can order this quantity or a multiple thereof.

Miniature Circuit Breakers

Additional Components

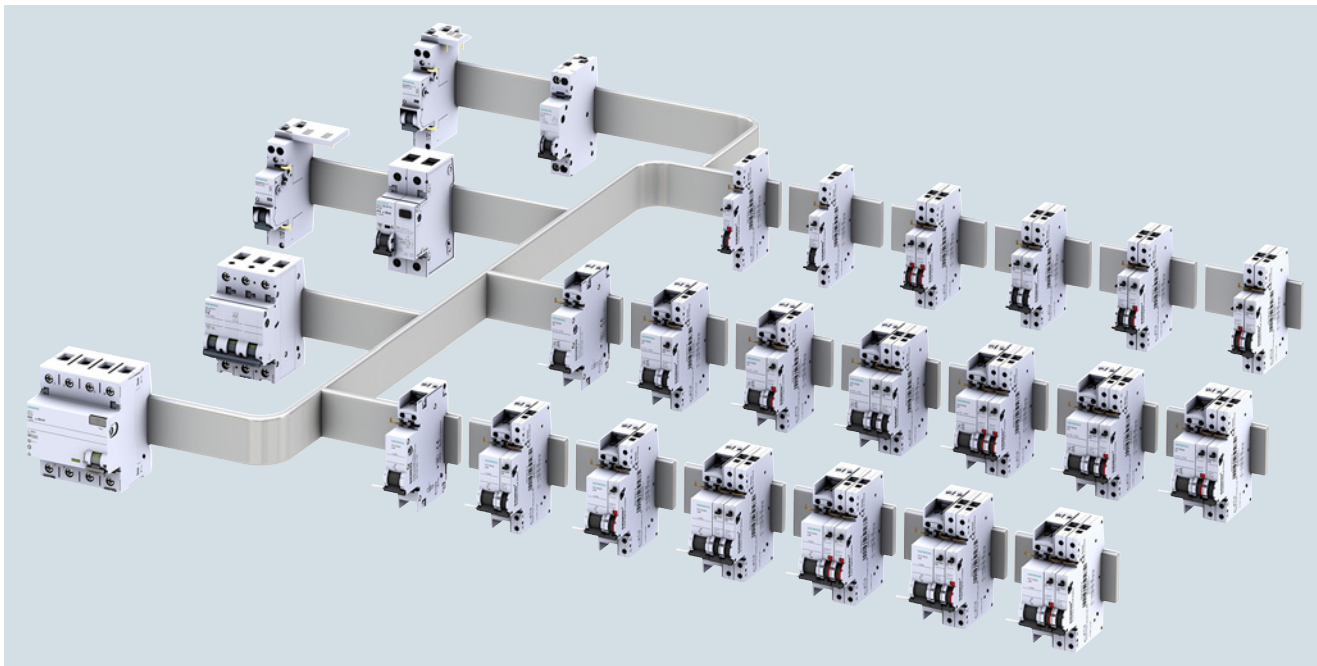
Mechanical components

Version	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Labeling system Available from:		Murrplastik Systemtechnik GmbH Postfach 1143 71570 Oppenweiler, Germany Telephone: +49 7191-482-0 e-mail: 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	0.086 0.185
	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	1/4 units 1 unit	1BE 1BE	0.131 0.162
	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	0.476
	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	0.026 0.288 0.239
	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	0.070
	Intermediate frames for 70 mm devices in 55 mm ALPHA SIMBOX small distribution boards Versions • 1-tier • 2-tier • 3-tier • 4-tier	8GB4561 8GB4562 8GB4563 8GB4564		1 1 1 1	1 unit 1 unit 1 unit 1 unit	1BO 1BO 1BO 1BO	0.795 0.911 1.111 1.238
For further information on ALPHA distribution boards, ALPHA SIMBOX small distribution boards and intermediate frames, see chapter "Distribution Boards / Power Distribution Boards".							

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)".

Miniature Circuit Breakers

Busbars

5ST standard busbars

Overview

The busbar system with pin-type connections can be used for all 5SL6 and 5SJ6 miniature circuit breakers . . . -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.

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

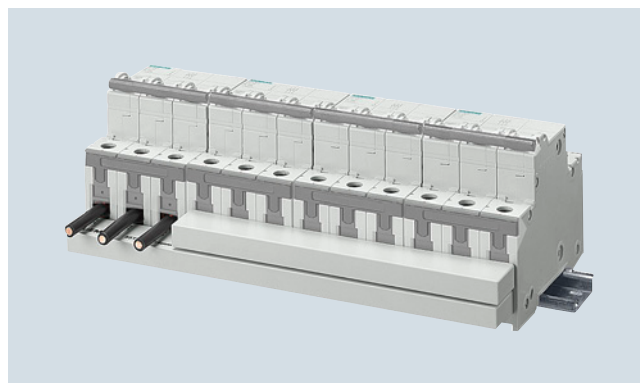
Any free pins on the busbars can be made safe by covering with touch protection.

For further information on the bus-mounting of miniature circuit breakers with residual current operated circuit breakers, [please refer to the chapter "Residual Current Protective Devices/ Arc Fault Detection Devices \(AFDDs\)"](#).

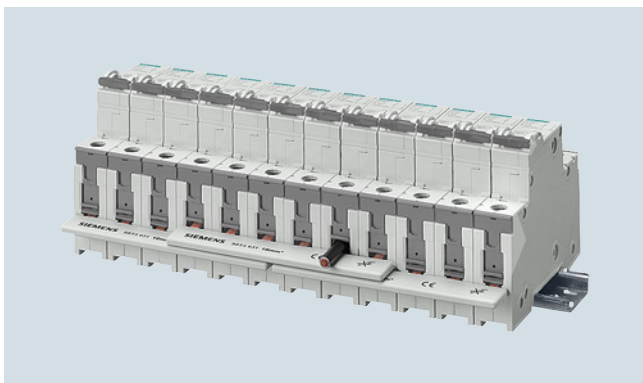
Benefits



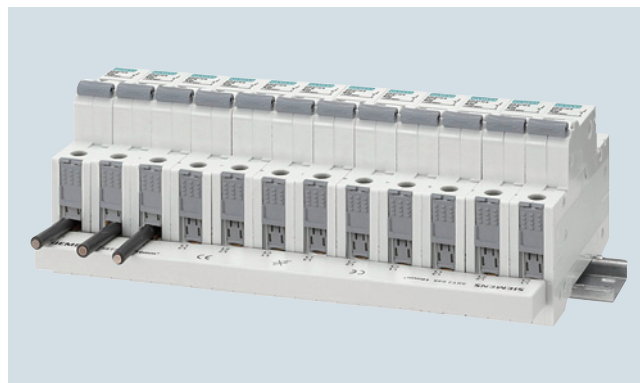
- Between the rows of devices, the busbar, that is located at the bottom and behind the conductor, provides an optimum wiring space with easy view of the inserted conductor. This enables easy control of connections.



- 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

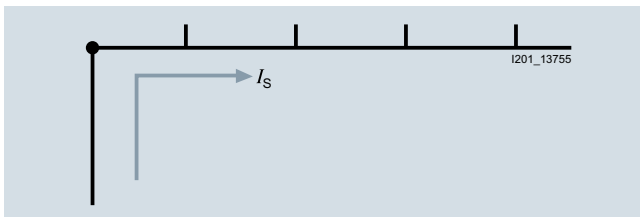


- The fact that the connection of the conductor is always clearly visible facilitates cable entry of all pole types and considerably reduces mounting times

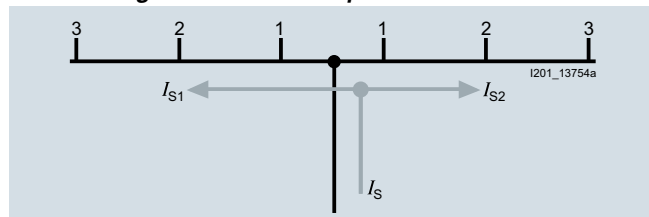
Technical specifications

		5ST3
Standards		EN 60439-1 (VDE 0660-500): 2005-01
Busbar material		SF-Cu F 24
Partition material		Plastic, Cycoloy 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	23/83; 40/92; 55/20
• Humid heat	Acc. to IEC 60068-2-30	28 cycles
Insulation coordination		
• Overvoltage category		III
• Pollution degree		2
Maximum busbar current I_S/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.

Miniature Circuit Breakers



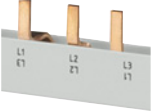
Busbars

5ST standard busbars

Selection and ordering data

	Pin spacing	Length	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	MW ¹⁾	mm							kg
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	0.008
	For 6 MCBs 1P		105	5ST3601		1	10 units	1AD	0.024
	For 12 MCBs 1P		210	5ST3602		1	10 units	1AD	0.047
	Single-phase, for MCBs with AS or FC								
	For 2 MCBs 1P	1.5	40	5ST3603		1	10 units	1AD	0.010
	For 6 MCBs 1P		156.5	5ST3604		1	10 units	1AD	0.033
	For 9 MCBs 1P		237	5ST3605		1	10 units	1AD	0.050
	Two-phase								
	For 2 MCBs 2P	1	75.5	5ST3606		1	10 units	1AD	0.019
For 3 MCBs 2P		105	5ST3607		1	10 units	1AD	0.028	
For 6 MCBs 2P		210	5ST3608		1	10 units	1AD	0.063	
Three-phase									
For 2 MCBs 3P	1	102	5ST3613		1	10 units	1AD	0.033	
For 3 MCBs 3P		157.5	5ST3614		1	10 units	1AD	0.055	
For 4 MCBs 3P		210	5ST3615		1	10 units	1AD	0.078	
Three-phase, for MCBs with AS or FC									
For 2 MCBs 3P	1+1+1.5	115	5ST3616		1	10 units	1AD	0.037	
For 4 MCBs 3P		237	5ST3617		1	10 units	1AD	0.090	
For 6 MCBs 1P	1.5	125	5ST3618		1	10 units	1AD	0.046	
For 9 MCBs 1P		229	5ST3620		1	10 units	1AD	0.079	
Three-phase									
For 1 RCCB 4P N right and 8 MCBs 1P	1	210	5ST3624		1	10 units	1AD	0.078	
For 1 RCCB 4P N left and 8 MCBs 1P	1	192	5ST3667		1	10 units	1AD	0.070	
Four-phase									
For 2 MCBs 4P or 3P+N	1	145	5ST3621		1	10 units	1AD	0.054	
For 3 MCBs 4P or 3P+N		215	5ST3622		1	10 units	1AD	0.092	
For 6 MCBs 2P or 1P+N		215	5ST3623		1	10 units	1AD	0.087	
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	0.009
	For 6 MCBs 1P		105	5ST3631		1	10 units	1AD	0.026
	For 12 MCBs 1P		210	5ST3632		1	10 units	1AD	0.052
	Single-phase, for MCBs with AS or FC								
	For 2 MCBs 1P	1.5	40	5ST3633		1	10 units	1AD	0.011
	For 6 MCBs 1P		156.5	5ST3634		1	10 units	1AD	0.036
	For 9 MCBs 1P		237	5ST3635		1	10 units	1AD	0.055
	Two-phase								
	For 2 MCBs 2P	1	75.5	5ST3636		1	10 units	1AD	0.026
For 3 MCBs 2P		105	5ST3637		1	10 units	1AD	0.042	
For 6 MCBs 2P		210	5ST3638		1	10 units	1AD	0.089	
Two-phase For MCBs with AS or FC									
For 2 MCBs 2P	1 + 1.5	75.5	5ST3640		1	10 units	1AD	0.029	
For 3 MCBs 2P		120.5	5ST3641		1	10 units	1AD	0.048	
For 5 MCBs 2P		210	5ST3642		1	10 units	1AD	0.086	

¹⁾ 1 MW (modular width) = 18 mm.

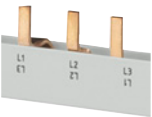
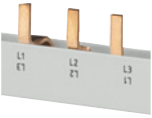

	Pin spacing	Length	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	MW ¹⁾	mm							
5ST36 busbars, 16 mm², for miniature circuit breakers, fixed lengths, cannot be cut, fully insulated									
Three-phase									
For 2 MCBs 3P	1	102.5		5ST3643		1	10 units	1AD	0.048
For 3 MCBs 3P		157.5		5ST3644		1	10 units	1AD	0.082
For 4 MCBs 3P		210	▶	5ST3645		1	10 units	1AD	0.113
Three-phase, for MCBs with AS or FC									
For 2 MCBs 3P	1+1+1.5	115		5ST3646		1	10 units	1AD	0.054
For 4 MCBs 3P		237		5ST3647		1	10 units	1AD	0.132
For 6 MCBs 1P	1.5	156		5ST3648		1	10 units	1AD	0.067
For 9 MCBs 1P		245		5ST3650		1	10 units	1AD	0.110
Three-phase,									
For 1 RCCB 4P N right and 8 MCBs 1P	1	210		5ST3654		1	10 units	1AD	0.113
For 1 RCCB 4P N left and 8 MCBs 1P	1	210		5ST3668		1	10 units	1AD	0.100
Four-phase									
For 2 MCBs 4P or 3P+N	1			5ST3651		1	10 units	1AD	0.080
For 3 MCBs 4P or 3P+N				5ST3652		1	10 units	1AD	0.137
For 6 MCBs 2P or 1P+N				5ST3653		1	10 units	1AD	0.126
Touch protection									
For free connections, yellow (RAL 1004) 5 x 1 pin									
		10 mm ²	▶	5ST3655		1	10 units	1AD	0.009
		20 x 5ST3613 + 10 x 5ST3614 + 50 x 5ST3615 + 50 x 5ST3655		5ST3656		1	1 set	1AD	5.348
		16 mm ²		5ST3657		1	1 set	1AD	7.765
		20 x 5ST3643 + 10 x 5ST3644 + 50 x 5ST3645 + 50 x 5ST3655							
5ST37 busbar system, 10 mm², 12 MW for miniature circuit breakers, can be cut, with end caps									
									
Single-phase, angled									
For 12 MCBs 1P	1	214		5ST3730		1	1/400 units	1AD	0.033
For 9 MCBs 1P with AS or FC	1.5			5ST3732		1	1 unit	1AD	0.030
Two-phase									
For 6 MCBs 2P	1			5ST3734		1	1 unit	1AD	0.072
For 4 MCBs 2P with AS or FC	1+1.5			5ST3736		1	1 unit	1AD	0.071
Three-phase									
For 4 MCBs 3P	1		▶	5ST3738		1	1/125 units	1AD	0.086
For 3 MCBs 3P with AS or FC	1+1+1.5			5ST3741		1	1 unit	1AD	0.074
For 3 MCBs 1P with AS or FC	1.5			5ST3743		1	1 unit	1AD	0.075
Four-phase									
For 3 MCBs 4P or 3P+N	1			5ST3745		1	1 unit	1AD	0.108
5ST37 busbar system, 10 mm², 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	0.153
For MCBs 1P with AS or FC	1.5			5ST3733		1	1 unit	1AD	0.157
Two-phase									
For MCBs 1P and UR or AR	2			5ST3735-2		1	1 unit	1AD	0.505
For MCBs 2P	1			5ST3735		1	1 unit	1AD	0.343
For MCBs 2P with AS or FC	1+1.5			5ST3737		1	1 unit	1AD	0.327
Three-phase									
For MCBs 3P	1		▶	5ST3740		1	1 unit	1AD	0.430
For MCBs 3P with AS or FC	1+1+1.5			5ST3742		1	1 unit	1AD	0.421
For MCBs 1P with AS or FC	1.5			5ST3744		1	1 unit	1AD	0.420
Four-phase									
For MCBs 4P or 3P+N	1			5ST3746		1	1 unit	1AD	0.600
For MCBs 2P with AS or FC and RCBOs 1P+N with AS or FC	1+1.5			5ST3746-2		1	1 unit	1AD	0.505

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


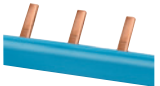

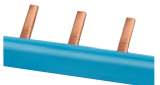



Miniature Circuit Breakers

Busbars

5ST standard busbars

	Pin spacing MW ¹⁾	Length mm	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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	0.042
	For MCBs 1P with AS or FC	1.5		▶ 5ST3702		1	1 unit	1AD	0.040
	Two-phase								
	For MCBs 2P	1		▶ 5ST3704		1	1 unit	1AD	0.097
	For MCBs 2P with AS or FC	1+1.5		▶ 5ST3706		1	1 unit	1AD	0.090
	Three-phase								
	For MCBs 3P	1		▶ 5ST3708		1	1/125 units	1AD	0.116
	For MCBs 3P with AS or FC	1+1+1.5		▶ 5ST3711		1	1 unit	1AD	0.013
	For MCBs 1P with AS or FC	1.5		▶ 5ST3713		1	1 unit	1AD	0.102
Four-phase									
For MCBs 4P or 3P+N	1		▶ 5ST3715		1	1 unit	1AD	0.152	
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	0.201
	For MCBs 1P with AS or FC	1.5		▶ 5ST3703		1	1 unit	1AD	0.185
	Two-phase								
	For MCBs 2P	1		▶ 5ST3705		1	1 unit	1AD	0.452
	For MCBs 2P with AS or FC	1+1.5		▶ 5ST3707		1	1 unit	1AD	0.446
	Three-phase								
	For MCBs 3P	1		▶ 5ST3710		1	1 unit	1AD	0.610
	For MCBs 3P with AS or FC	1+1+1.5		▶ 5ST3712		1	1 unit	1AD	0.580
	For MCBs 1P with AS or FC	1.5		▶ 5ST3714		1	1 unit	1AD	0.540
Four-phase									
For MCBs 4P or 3P+N	1		▶ 5ST3716		1	1 unit	1AD	0.798	
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	0.578	
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	0.779	
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	0.159	
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	0.203	
End caps for 5ST37, can be cut									
	For single-phase busbars		▶ 5ST3748		1	10/5000 units	1AD	0.001	
	For two-phase and three-phase busbars		▶ 5ST3750		1	10/2000 units	1AD	0.002	
	For four-phase busbars		▶ 5ST3718		1	10 units	1AD	0.001	

¹⁾ 1 MW (modular width) = 18 mm.

	Pin spacing	Length	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx. kg
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	0.034
	For 12 MCBs 1+N, blue	1		5ST3763		1	10 units	1AD	0.034
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	0.134
	For MCBs 1+N, blue	1		5ST3765		1	10 units	1AD	0.134
End caps for 5ST376									
 	1 set comprises a right and a left cap								
	Gray			5ST3766		1	10 sets	1AD	0.001
	Blue			5ST3767		1	10 sets	1AD	0.001
Terminals for 5ST376									
	Terminal version S For conductors up to 25 mm ²			5ST3768		1	25 units	1AD	0.012

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

Busbars

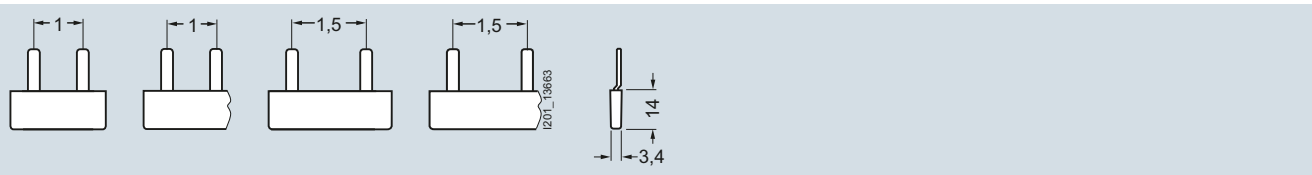
5ST standard busbars

Dimensional drawings

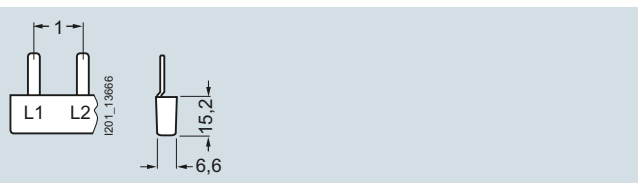
5ST36

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

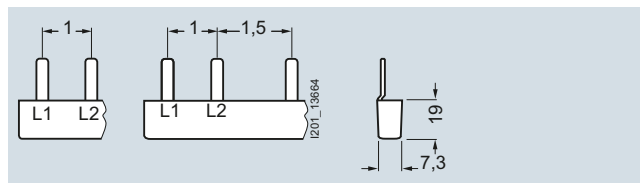
Dimensions of side view in mm (approx.)



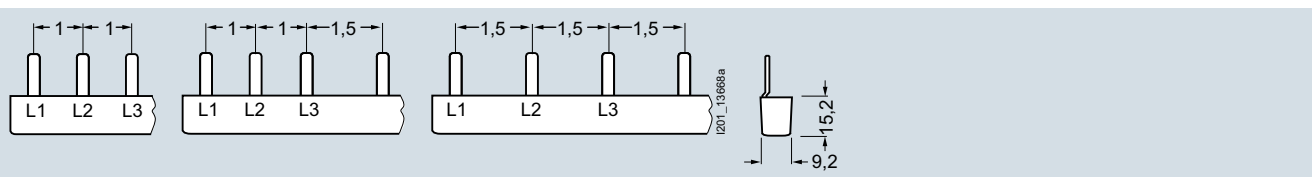
- | | | | |
|--------------------|--|--------------------|--|
| 5ST3600
5ST3630 | 5ST3601
5ST3602
5ST3631
5ST3632 | 5ST3603
5ST3633 | 5ST3604
5ST3605
5ST3634
5ST3635 |
|--------------------|--|--------------------|--|



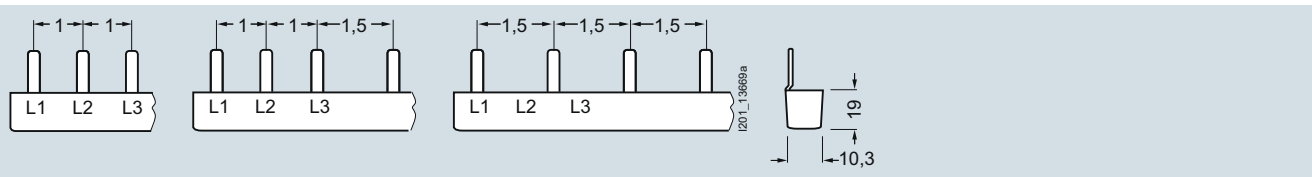
- 5ST3606
5ST3607
5ST3608



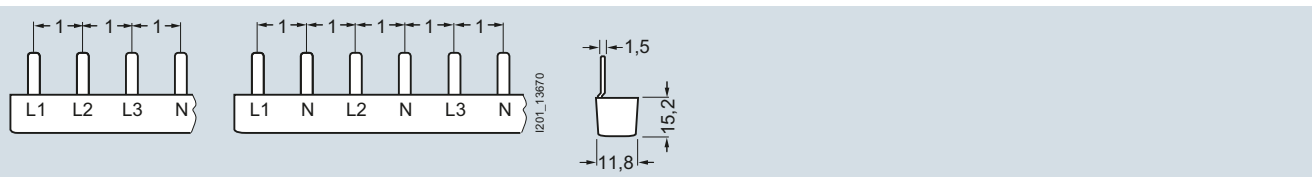
- | | |
|-------------------------------|-------------------------------|
| 5ST3636
5ST3637
5ST3638 | 5ST3640
5ST3641
5ST3642 |
|-------------------------------|-------------------------------|



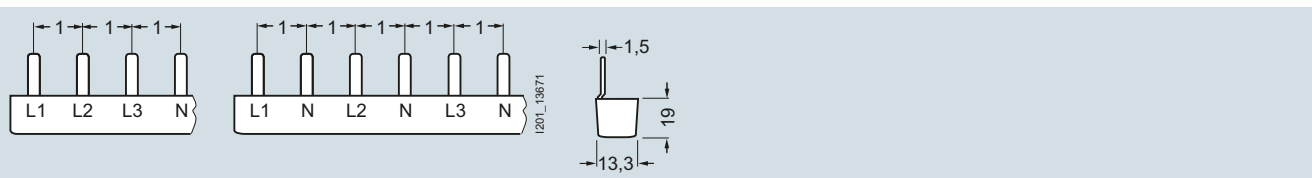
- | | | |
|--|--------------------|--------------------|
| 5ST3613
5ST3614
5ST3615
5ST3667 | 5ST3616
5ST3617 | 5ST3618
5ST3620 |
|--|--------------------|--------------------|



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



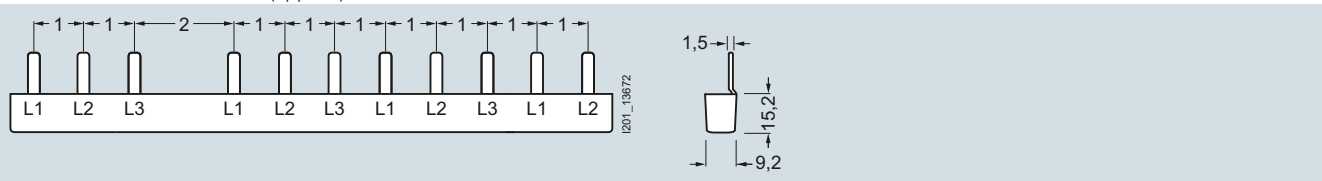
- | | |
|--------------------|---------|
| 5ST3621
5ST3622 | 5ST3623 |
|--------------------|---------|



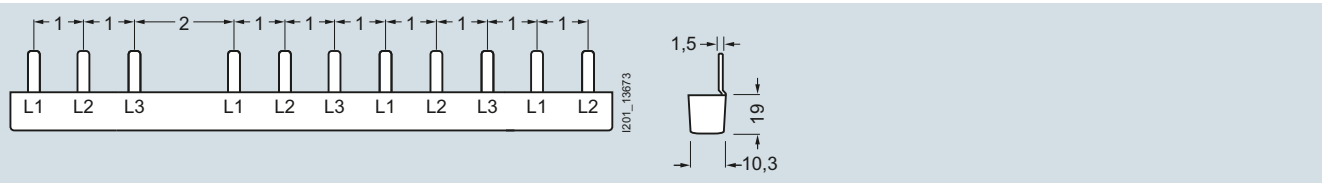
- | | |
|--------------------|---------|
| 5ST3651
5ST3652 | 5ST3653 |
|--------------------|---------|

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

Dimensions of side view in mm (approx.)



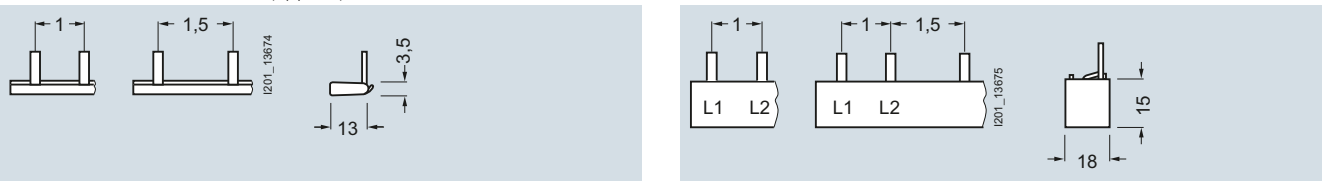
5ST3624



5ST3654

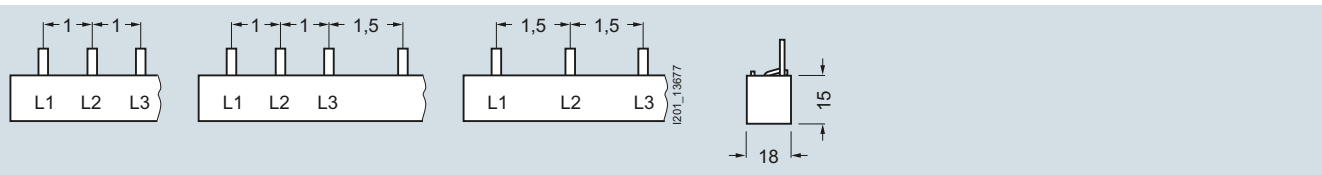
5ST37
Pin spacing in MW (modular width; 1 MW = 18 mm)

Dimensions of side view in mm (approx.)

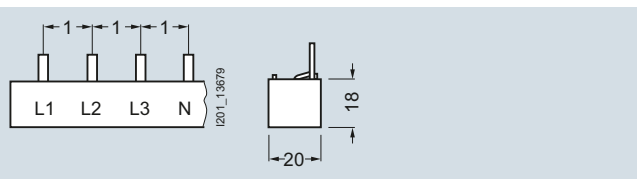


5ST3700 5ST3702
5ST3701 5ST3703
5ST3730 5ST3732
5ST3731 5ST3733
Single-phase Single-phase

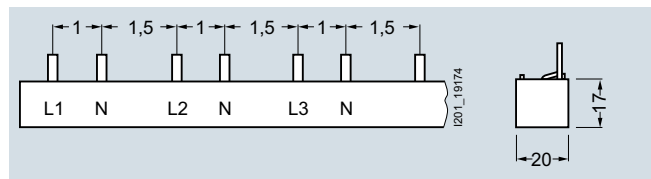
5ST3704 5ST3706
5ST3705 5ST3707
5ST3734 5ST3736
5ST3735 5ST3737
Two-phase Two-phase



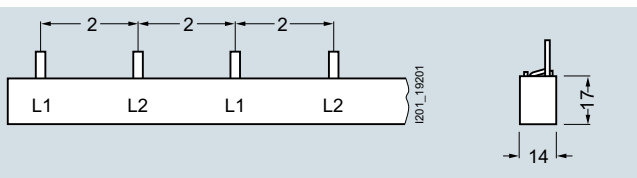
5ST3708 5ST3711 5ST3713
5ST3710 5ST3712 5ST3714
5ST3738 5ST3741 5ST3743
5ST3740 5ST3742 5ST3744



5ST3715
5ST3716
5ST3745
5ST3746



5ST3746-2



5ST3735-2

Miniature Circuit Breakers

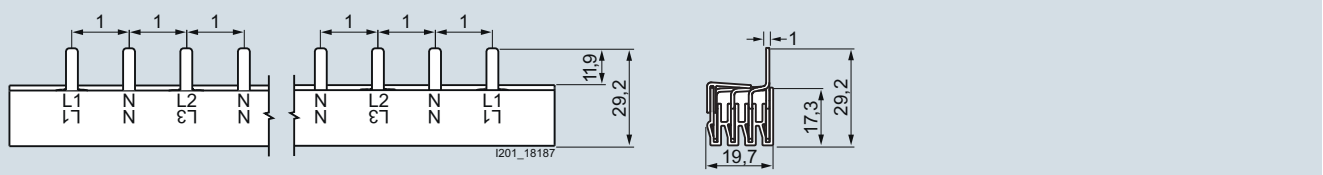
Busbars

5ST standard busbars

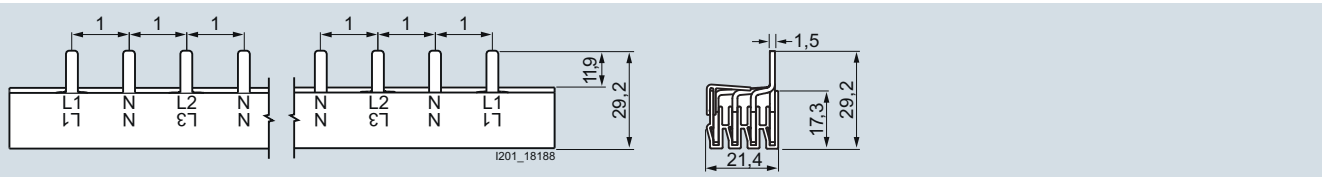
5ST37

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

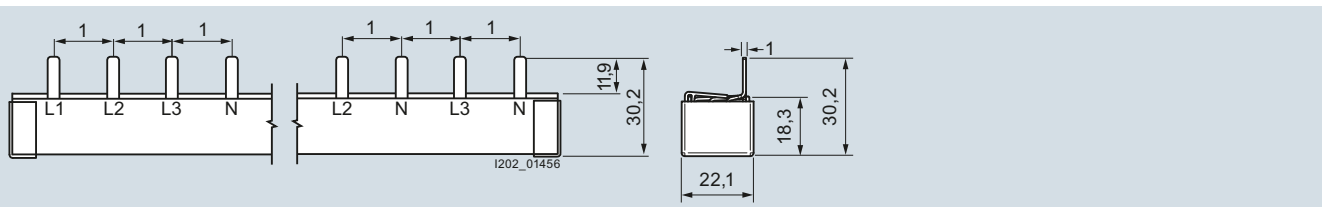
Dimensions of side view in mm (approx.)



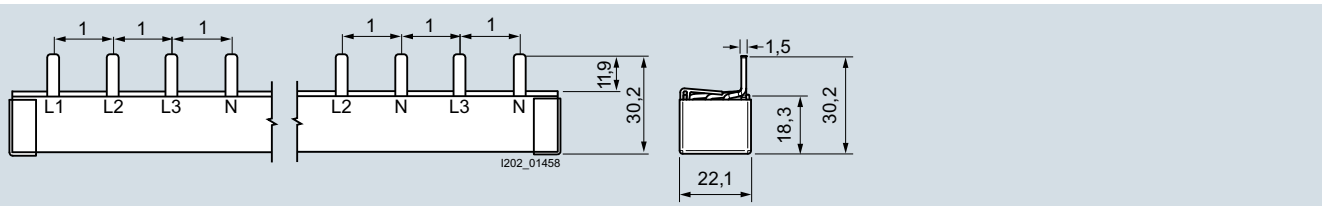
5ST3770-2



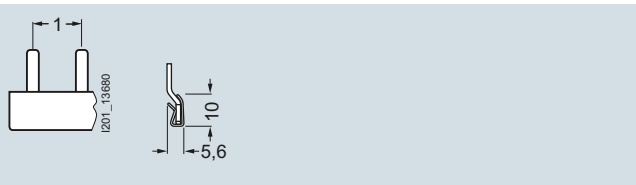
5ST3770-3



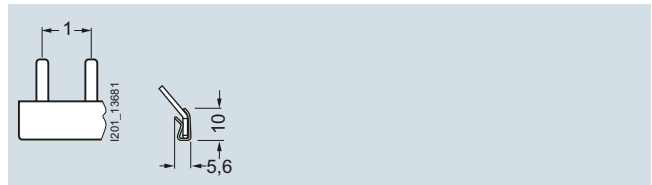
5ST3770-4



5ST3770-5



5ST3762
5ST3764



5ST3763
5ST3765

Overview

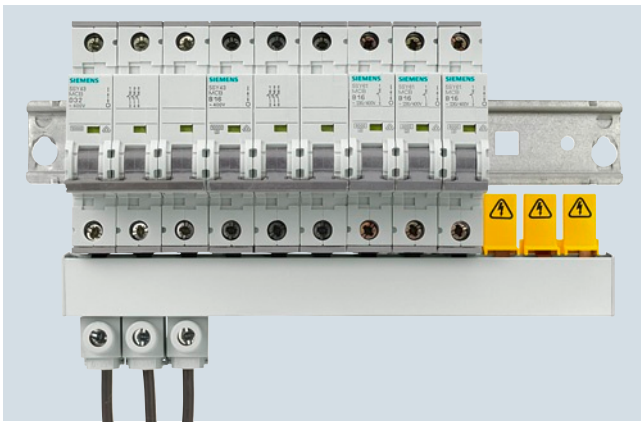
Products according to UL standards are used in North America, but also in several other countries. This is important in particular for exporting machines or electrical switchboard assemblies and equipment to the USA. Acceptance and delivery are possible only if the relevant UL standards are satisfied.

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.

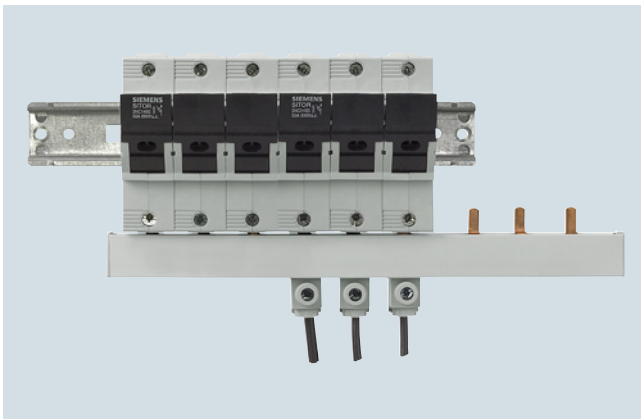
Benefits



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



- Infeed directly on the miniature circuit breaker up to a cross-section of 35 mm² and connection terminal for connection directly on the busbar up to conductor cross-sections 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, SITOR cylindrical and semiconductor fuse holders
- UL-tested combination – device and busbar
- Different cross-sections 18 mm² and 25 mm²



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

Miniature Circuit Breakers

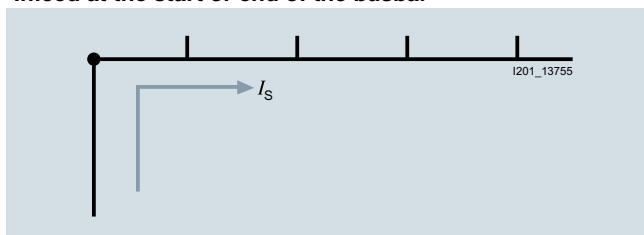
Busbars

5ST3 busbars acc. to UL 508

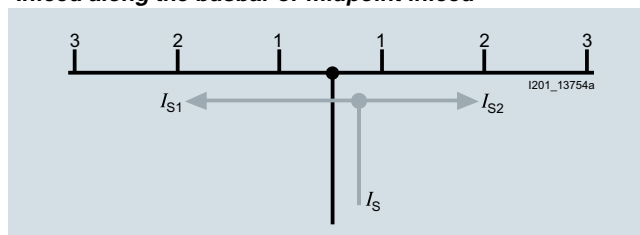
Technical specifications

		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						
• Dielectric strength	kA	10				
• Surge strength	kV/mm	25				
	kV	> 9.5				
Max.current						
	UL	A	--	--	115	
	IEC	A	--	--	160	
Maximum busbar current I_S/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						
	18 mm ²	10000 A RMS sym. 600 V for three connections				
	25 mm ²	100000 A RMS sym. for protection with Class J 175 A				
		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
		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
		lbs/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	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	MW ¹⁾	mm							kg
5ST37...-HG busbars acc. to UL 508, 18 mm², 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	0.320
	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	0.277
	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	0.640
	For MCBs 2P (5SY) with AS or FC	1+1.5	1000	5ST3707-0HG		1	1 unit	1AE	0.690
	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	0.820
	For MCBs 3P (5SY) with AS or FC	1+1+1.5	1000	5ST3712-0HG		1	1 unit	1AE	0.800
	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	0.780
5ST37...-HG busbars acc. to UL 508, 25 mm², 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	0.340
	Two-phase								
	For MCBs 2P (5SP) or fuse holders 14 x 51 mm (3NC1492, 3NW7121)	1.5	1000	5ST3705-2HG		1	1 unit	1AE	0.770
	Three-phase								
	For MCBs 3P (5SP) or fuse holders 14 x 51 mm (3NC1493, 3NW7131)	1.5	1000	5ST3710-2HG		1	1 unit	1AE	1.090
End caps for 5ST37...-HG									
	For single-phase busbars			5ST3748-0HG		1	10 units	1AE	0.001
	For two- and three-phase busbars			5ST3750-0HG		1	10 units	1AE	0.002
Terminals according to UL 508									
	Infeed to device 35 mm ²			5ST3770-0HG		1	10 units	1AE	0.033
	Infeed to busbar 50 mm ²			5ST3770-1HG		1	10 units	1AE	0.032
Touch protection cover for busbars according to UL 508									
	5 x 1 pin			5ST3655-0HG		1	10 units	1AE	0.011

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

Busbars

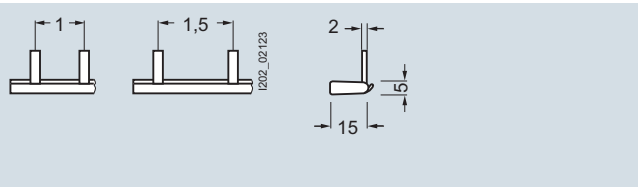
5ST3 busbars acc. to UL 508

Dimensional drawings

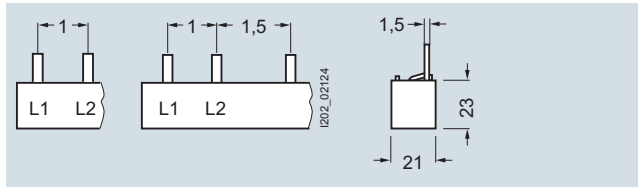
5ST37 busbars

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

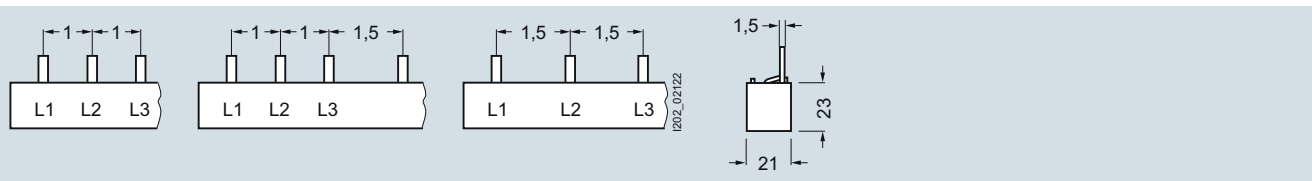
Dimensions of side view in mm (approx.)



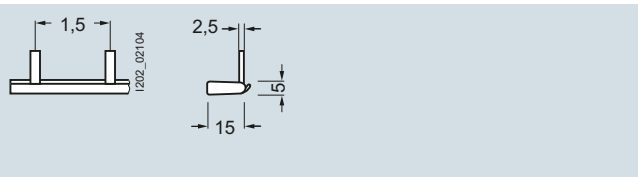
5ST3701-0HG 5ST3703-0HG



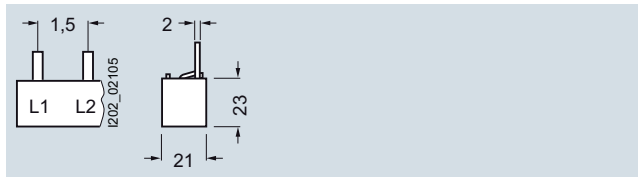
5ST3705-0HG 5ST3707-0HG



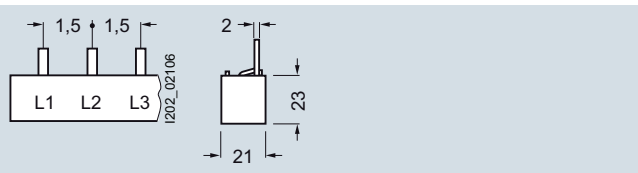
5ST3710-0HG 5ST3712-0HG 5ST3714-0HG



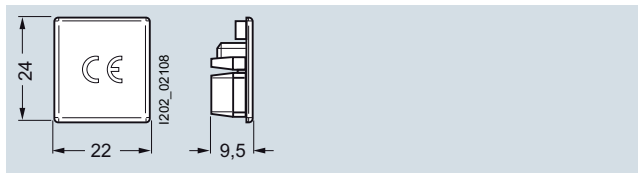
5ST3701-2HG



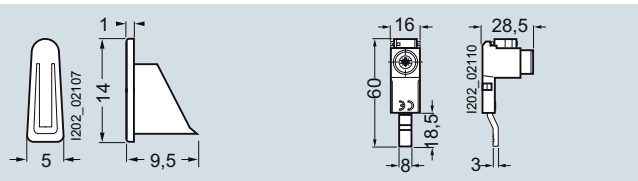
5ST3705-2HG



5ST3710-2HG

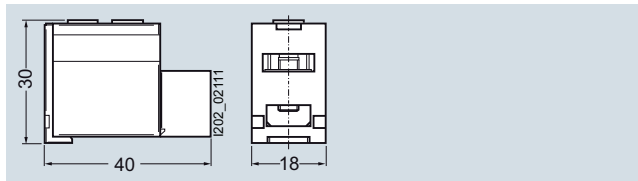


5ST3750-0HG



5ST3748-0HG

5ST3770-0HG

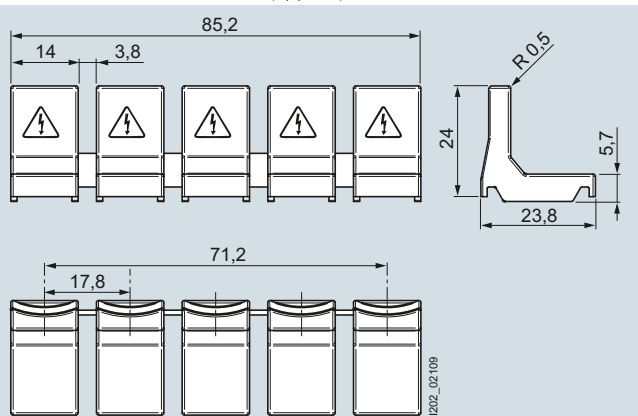


5ST3770-1HG

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 one, 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				IP 20			
Poles				4			
Approved cable				Copper			
Conductor cross-section							
• Inputs per pole							
- Solid/stranded conductor acc. to IEC	Neutral conductor	Large	mm ²	1 x 2.5 ... 16	1 x 6 ... 35	1 x 10 ... 35	
		Small	mm ²	--	1 x 6 ... 35	--	
- Finely stranded with end sleeve	Neutral conductor	Large	mm ²	1 x 2.5 ... 10	1 x 6 ... 25	1 x 10 ... 25	
		Small	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 6 ... 25	
		Small	mm ²	--	5 x 1.5 ... 6	8 x 2.5 ... 16	
- Finely stranded with end sleeve	Neutral conductor	Large	mm ²	--	6 x 4 ... 16	--	
		Small	mm ²	--	4 x 1.5 ... 10	--	
- Finely stranded with end sleeve	Neutral conductor	Large	mm ²	8 x 1.5 ... 10	2 x 4 ... 10	3 x 6 ... 16	
		Small	mm ²	--	5 x 1.5 ... 6	8 x 2.5 ... 10	
- Finely stranded with end sleeve	Neutral conductor	Large	mm ²	--	6 x 4 ... 10	--	
		Small	mm ²	--	4 x 1.5 ... 6	--	
Tightening torque							
• Inputs							
- Solid/stranded conductor acc. to IEC	Plug-in connection	Large	lbs/in. Nm	13.5 1.5	13.5 1.5	3.5 ... 5 2	
		Small	lbs/in. Nm	PZ2	PZ2	PZ2	
• Outputs							
- Solid/stranded conductor acc. to IEC	Plug-in connection	Large	lbs/in. Nm	13.5 1.5	13.5 1.5	13.5 1.5	
		Small	lbs/in. Nm	PZ1	PZ2	PZ2	
- Finely stranded with end sleeve	Plug-in connection	Large	lbs/in. Nm	-- --	7.2 0.8	13.5 1.5	
		Small	lbs/in. Nm	-- --	PZ1	PZ2	
Operational voltage							
• IEC, max.				V	690	690	1000 V AC 1500 V DC
Overcurrent protection							
• Max. rated current				A	80	125	175
• Rated peak withstand current (I_{pk})				kA	21.6	24	20
• Rated short-time withstand current (I_{cw} 1 s)				kA	3	4.2	6.2
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






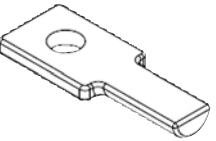
5ST2 distribution blocks

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			UL 1059 / UL 486E / IEC 60947-7-1 UL File No. E80027 / XCFR2		
Degree of protection			IP 20					
Poles			1					
Approved cable			Copper					
Wiring type			Factory and field wiring					
• Front/back			Pressure wire connector					
Conductor cross-section								
• Inputs								
- Solid and stranded conductor acc. to UL	Large	AWG	1 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	2.5 ... 16	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	--	6 ... 16	--	--	--	
- Finely stranded with end sleeve acc. to UL	Large	AWG	1 x 14 ... 4	1 x 8 ... 2	1 x 8 ... 1	1 x 2 ... 3 / 0	3 / 0 ... 5 / 0	
- Finely stranded with end sleeve acc. to IEC		mm ²	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	--	6 ... 16	--	--	--	
• Outputs								
- Solid and stranded conductor acc. to UL	Top	AWG	4 x 14 ... 10	6 x 14 ... 6	6 x 14 ... 6	4 x 16 ... 8	--	
- Solid and stranded acc. to IEC		mm ²	2.5 ... 6	2.5 ... 16	2.5 ... 16	1.5 ... 10	--	
- Solid and stranded conductor acc. to UL	Medium	AWG	--	--	--	5 x 16 ... 6	--	
- Solid and stranded acc. to IEC		mm ²	--	--	--	1.5 ... 16	--	
- Solid and stranded conductor acc. to UL	Bottom	AWG	2 x 14 ... 6	--	--	2 x 14 ... 2	--	
- Solid and stranded acc. to IEC		mm ²	2.5 ... 16	--	--	2 x 2.5 ... 35	--	
- 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	2 x 14 ... 6	--	--	2 x 14 ... 4	--	
- Finely stranded with end sleeve acc. to IEC		mm ²	2.5 ... 16	--	--	2 x 2.5 ... 25	--	
Tightening torque								
• Inputs								
		lbs/in.	13.2 ... 26.5	31 ... 44	44 ... 53	170 ... 186	222	
		Nm	1.5 ... 3	3.5 ... 5	5 ... 6	19 ... 21	25	
	Plug-in connection			Allen key (4 mm)	Allen key (5 mm)	Allen key (6 mm)	Allen key (8 mm)	
• Outputs								
	Large	lbs/in.	13.2 ... 26.5	17.7 ... 26.5	13.2 ... 26.5	31 ... 62		
		Nm	1.5 ... 3	2 ... 3	1.5 ... 3	3.5 ... 7		
	Plug-in connection			PZ2		Standard screwdriver		
	Small	lbs/in.	7 ... 13.2	--	--	18 ... 27		
		Nm	0.8 ... 1.5	--	--	2 ... 3		
	Plug-in connection			PZ1		Standard screwdriver		
Ampere 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	21		
Clearance								
• Air		inches (mm)	3 / 8 (9.5)					
• Creepage distance		inches (mm)	1 / 2 (12.7)					
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

Selection and ordering data

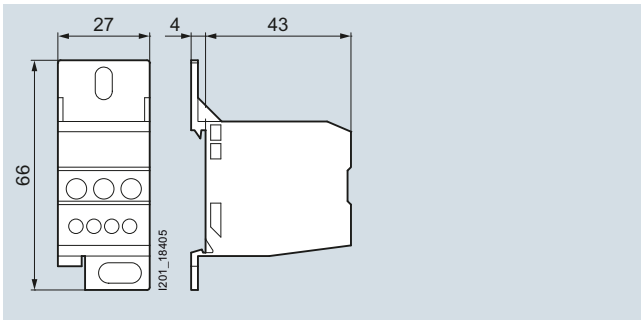
Version	Standard	I	U	Mounting width	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
		A	V	MW							
Distribution blocks											
	1-pole	UL 1059 / UL 486E / IEC 60947-7-1	80	600	1.5	5ST2504		1	1 unit	1AD	0.076
		UL File No. E80027 / XCFR2	125	600	1.5	5ST2505		1	1 unit	1AD	0.149
		C22.2 No158 -1987 / XCFR8	160	600	2	5ST2507		1	1 unit	1AD	0.259
		UL 486E / IEC 60947-7-1	250	600	2.5	5ST2508		1	1 unit	1AD	0.430
		UL File No. E80027 / XCFR2	350	600	2.5	5ST2511		1	1 unit	1AD	0.407
5ST2504											
	4-pole	IEC 60947-7-1	80	500	5	5ST2501		1	1 unit	1AD	0.224
5ST2501											
		IEC 60947-7-1	125	690	5.5	5ST2502		1	1 unit	1AD	0.337
5ST2502											
		IEC 60947-7-1	160	500	9	5ST2503		1	1 unit	1AD	0.716
5ST2503											
Accessories											
	Connector for 5ST2505 distribution board		--	--	--	5ST2506		1	10 units	1AD	0.015
		<ul style="list-style-type: none"> With touch protection 20 mm² Single-phase 32 mm 									
5ST2506											
	Terminal lug ring terminal end for distribution block <i>NEW</i>					5ST2510		1	10 units	1AD	0.057
		Versions <ul style="list-style-type: none"> For 5ST2508 distribution block For 5ST2511 distribution block 				5ST2512		1	10 units	1AD	0.086

Miniature Circuit Breakers

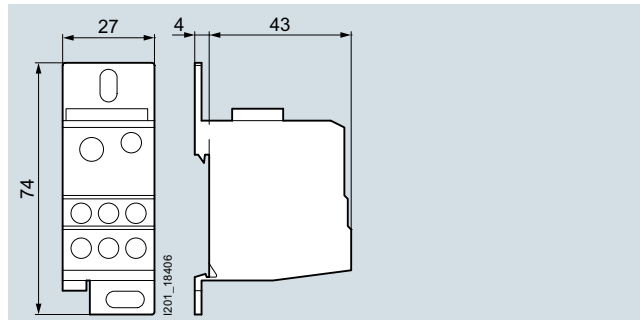
Busbars

5ST2 distribution blocks

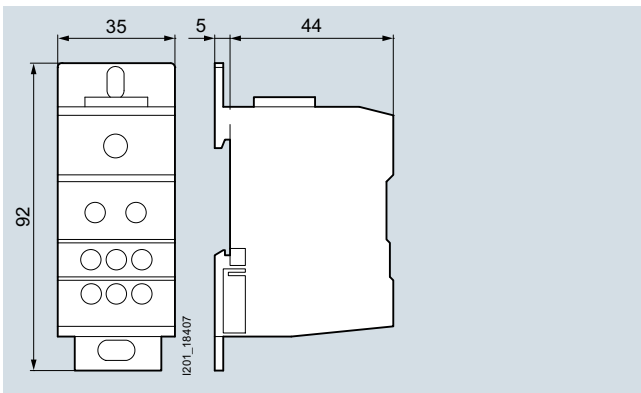
Dimensional drawings



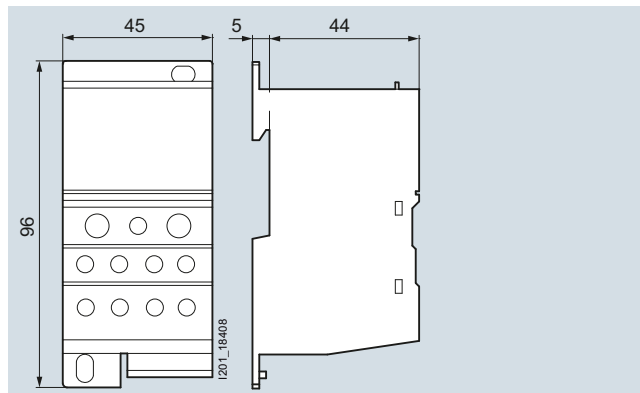
5ST2504



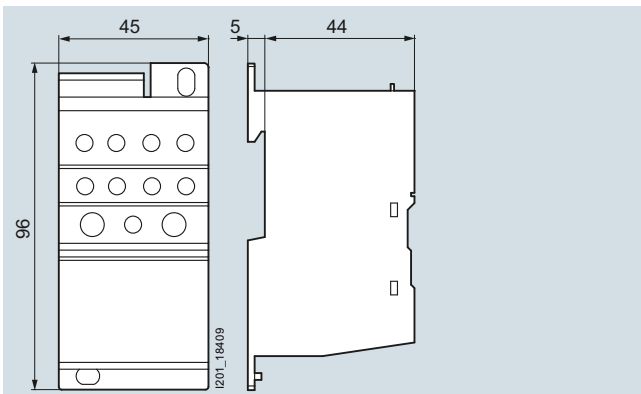
5ST2505



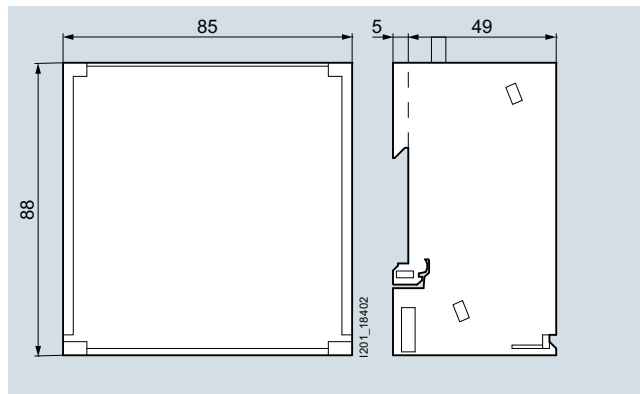
5ST2507



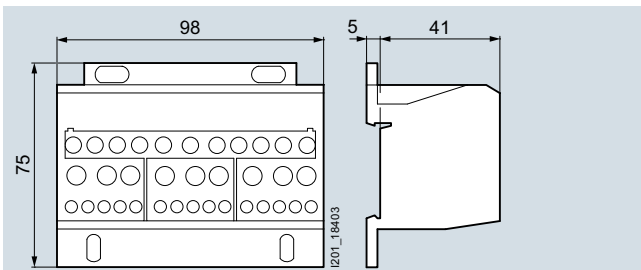
5ST2508



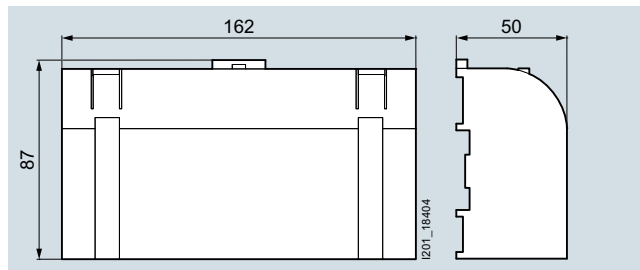
5ST2511



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 DIN rail.

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


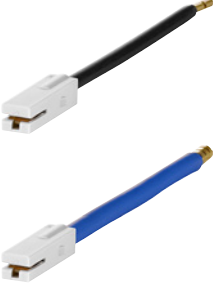


High degree of protection because each contact is locked individually.

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	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	mm	mm ²								
	SIKclip busbar									
	12 MW				▶ 5ST2520		1	1 unit	1AD	0.781
	24 MW				▶ 5ST2521		1	1 unit	1AD	1.460
	36 MW				▶ 5ST2522		1	1 unit	1AD	2.041
	Connecting cables with plug									
	120	6	Black	▶	5ST2523		1	10 units	1AD	0.012
			Blue	▶	5ST2524		1	10 units	1AD	0.012
	220	10	Black		5ST2525		1	10 units	1AD	0.017
			Blue		5ST2526		1	10 units	1AD	0.019
	220	6	Black		5ST2527		1	10 units	1AD	0.019
Blue				5ST2528		1	10 units	1AD	0.018	
	10	Black		5ST2530		1	10 units	1AD	0.029	
		Blue		5ST2531		1	10 units	1AD	0.029	
	Crimp connectors									
					▶ 5ST2532		1	20 units	1AD	0.006
	For connection to cables 4/6 mm ²									
	Fixing brackets									
					▶ 5ST2533		1	2 units	1AD	0.056
	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.

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, in residential and non-residential buildings, as well as in industry. The tripping characteristics B, C and D to EN/IEC 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.

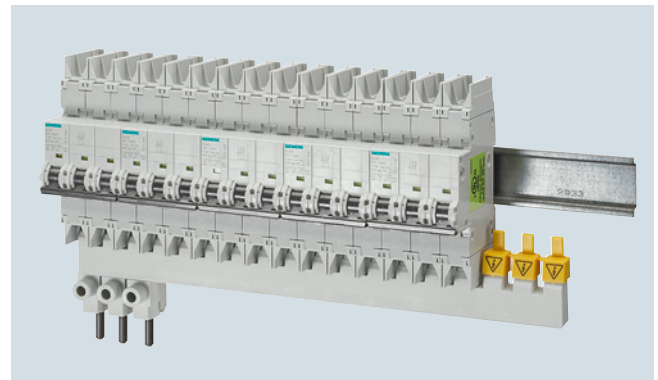
The terminals are suitable for "field wiring". This means that the devices can be installed not only in factory-built distribution boards and control cabinets, but also on-site in a customer system.

Using this mounting concept, all additional 5ST3...-HG 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.

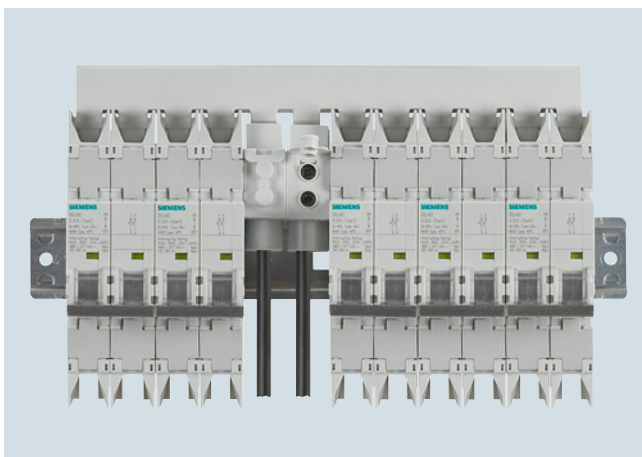
Single, two and three-phase busbars in 3 lengths with 6, 12 or 18 pins are available as accessories for all device series for "field wiring". The infeed is via connection terminals, which are available in two versions, for direct infeed at either the busbar or the miniature circuit breakers. Pins that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

Benefits

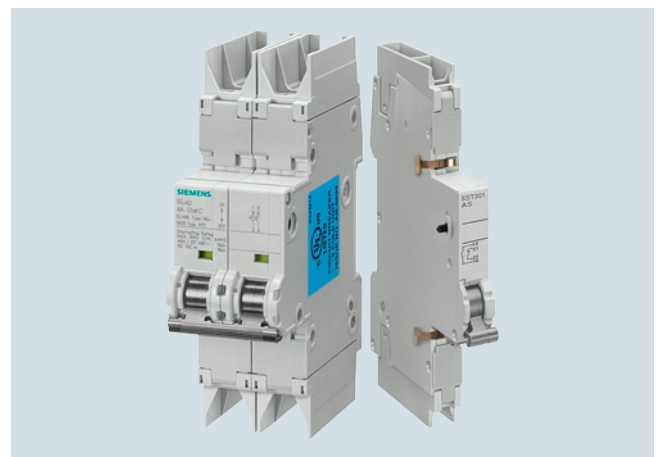
- Can be used globally for all applications in residential, non-residential and industrial buildings. This facilitates the planning of installations and enhances export opportunities
- The devices can be used according to IEC/EN 60898-1 and UL 489, which means these devices can be installed anywhere 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 making and 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 direct 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 C22.2 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	240/120	240	480/277
	DC V/1P	60	60	60
	DC V/2P	--	125	125
Operational voltage	Min.	V AC/DC per pole	24	
• Acc. to IEC 60898-1	Max.	V DC/pole	60	
	Max.	V AC	250/440	
• Acc. to UL 489	Max.	V DC/pole	72	
Rated breaking capacity				
• I_{cn} acc. to IEC 60898-1	kA AC	10		
• I_{cu} acc. to IEC 60947-2	kA AC	15		
• 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 according to EN 50274		Yes		
Handle end position, sealable		Yes		
Degree of protection in accordance with EN 60529		IP40 in the area of the handle		
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	3.5		
	lbs/in.	31		
Conductor cross-sections				
• Solid and stranded, acc. to UL489 and CSA C22.2 No.5-02	AWG	14 ... 4		
• Solid and stranded, according to IEC 60898-1	mm ²	1.5 ... 25		
• Finely stranded, with end sleeve	mm ²	1.5 ... 25		
Mains connection		Any		
Mounting position		Any		
Service life, on average, with rated load		20000 actuations		
EMC environment		Suitable for environment "B" (immunity to interference not applicable)		
• Acc. to EN 60947-2				
Ambient temperature	°C	-25 ... +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 sec)		

¹⁾ For detailed information about rated switching capacity, see Configuration Manual "Miniature circuit breakers" at: www.siemens.com/lowvoltage/manuals.

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

Additional components	Auxiliary switches (AS)		Fault signal contacts (FC)		Shunt trips (ST)	
	5ST3010-0HG 5ST3011-0HG 5ST3012-0HG		5ST3020-0HG 5ST3021-0HG 5ST3022-0HG		5ST3030-0HG	5ST3031-0HG
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	V AC	400	230		110 ... 415	24 ... 60
	A AC	2	6 (NC: 13 AC, S: AC14)		--	--
	V DC	220	110	60	24	24 ... 60
	A DC	1	1	3	6 (DC13)	--
• Acc. to UL	V AC	480	277	240	120	110 ... 480
	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 lbs/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	V AC	1000/1-pole		600/2- to 3-pole		
• Acc. to UL 489	V AC	1000/1-pole		600/2- to 3-pole (60 Hz)		
Rated conditional short-circuit current	kA	10 kA at 600 V	10 kA at 600 V with J 175 A fuse	10 kA at 600 V		10 kA at 600 V with J 175 A fuse
• Dielectric strength	kV/mm	35				
• Surge strength	kV	> 9.5	> 10	> 9.5		> 10
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		2				
• Overvoltage category		III				
Busbar cross-section (Cu)	mm ²	16	18	16		18
Infeed	Any					
Conductor cross-sections						
• AWG cables	AWG	--		14 ... 2		14 ... 2
• Solid and stranded	mm ²	--		2.5 ... 35		2.5 ... 35
Terminals				6 mm Allen key		6 mm Allen key
• Terminal tightening torque	Nm lbs/in.	-- --		5.5 50		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	DT	Characteristic B		Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
			Article No.	Article No.					
A	MW ¹⁾		www.siemens.com/ product?Article No.						kg
Miniature circuit breakers "same polarity only" 1P, 240 V AC									
6	1		5SJ4106-6HG40			1	1 unit	1AE	0.160
10			5SJ4110-6HG40			1	1 unit	1AE	0.166
13			5SJ4113-6HG40			1	1 unit	1AE	0.163
15			5SJ4118-6HG40			1	1 unit	1AE	0.168
16			5SJ4116-6HG40			1	1 unit	1AE	0.168
20			5SJ4120-6HG40			1	1 unit	1AE	0.164
25			5SJ4125-6HG40			1	1 unit	1AE	0.166
30			5SJ4130-6HG40			1	1 unit	1AE	0.166
32			5SJ4132-6HG40			1	1 unit	1AE	0.164
35			5SJ4135-6HG40			1	1 unit	1AE	0.164
40			5SJ4140-6HG40			1	1 unit	1AE	0.167
45			5SJ4145-6HG40			1	1 unit	1AE	0.190
50			5SJ4150-6HG40			1	1 unit	1AE	0.170
60			5SJ4160-6HG40			1	1 unit	1AE	0.175
63			5SJ4163-6HG40			1	1 unit	1AE	0.175

¹⁾ 1 MW (modular width) = 18 mm.



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

I_n	Mounting width	DT	Characteristic C		Characteristic D		Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
			Article No. www.siemens.com/product?Article No.	Price per PU	Article No. www.siemens.com/product?Article No.	Price per PU					
A	MW ¹⁾										kg
Miniature circuit breakers "same polarity only" 1P, 240 V AC											
	0.3	1	5SJ4114-7HG40	1AE	5SJ4114-8HG40	1	1 unit	1AE	0.168		
	0.5		5SJ4105-7HG40	1AE	5SJ4105-8HG40	1	1 unit	1AE	0.168		
	1		5SJ4101-7HG40	1AE	5SJ4101-8HG40	1	1 unit	1AE	0.165		
	1.6		5SJ4115-7HG40	1AE	5SJ4115-8HG40	1	1 unit	1AE	0.162		
	2		5SJ4102-7HG40	1AE	5SJ4102-8HG40	1	1 unit	1AE	0.163		
	3		5SJ4103-7HG40	1AE	5SJ4103-8HG40	1	1 unit	1AE	0.162		
	4		5SJ4104-7HG40	1AE	5SJ4104-8HG40	1	1 unit	1AE	0.163		
	5		5SJ4111-7HG40	1AE	5SJ4111-8HG40	1	1 unit	1AE	0.161		
	6		5SJ4106-7HG40	1AE	5SJ4106-8HG40	1	1 unit	1AE	0.161		
	8		5SJ4108-7HG40	1AE	5SJ4108-8HG40	1	1 unit	1AE	0.164		
	10		5SJ4110-7HG40	1AE	5SJ4110-8HG40	1	1 unit	1AE	0.163		
	13		5SJ4113-7HG40	1AE	5SJ4113-8HG40	1	1 unit	1AE	0.163		
	15		5SJ4118-7HG40	1AE	5SJ4118-8HG40	1	1 unit	1AE	0.163		
	16		5SJ4116-7HG40	1AE	5SJ4116-8HG40	1	1 unit	1AE	0.159		
	20		5SJ4120-7HG40	1AE	5SJ4120-8HG40	1	1 unit	1AE	0.165		
	25		5SJ4125-7HG40	1AE	5SJ4125-8HG40	1	1 unit	1AE	0.161		
	30		5SJ4130-7HG40	1AE	5SJ4130-8HG40	1	1 unit	1AE	0.170		
	32		5SJ4132-7HG40	1AE	5SJ4132-8HG40	1	1 unit	1AE	0.168		
	35		5SJ4135-7HG40	1AE	5SJ4135-8HG40	1	1 unit	1AE	0.161		
	40		5SJ4140-7HG40	1AE	5SJ4140-8HG40	1	1 unit	1AE	0.165		
45		5SJ4145-7HG40	1AE	5SJ4145-8HG40	1	1 unit	1AE	0.159			
50		5SJ4150-7HG40	1AE	5SJ4150-8HG40	1	1 unit	1AE	0.171			
60		5SJ4160-7HG40	1AE	5SJ4160-8HG40	1	1 unit	1AE	0.170			
63		5SJ4163-7HG40	1AE	5SJ4163-8HG40	1	1 unit	1AE	0.169			
Miniature circuit breakers 1P, 240 V AC											
	0.3	1	5SJ4114-7HG41	1AE	5SJ4114-8HG41	1	1 unit	1AE	0.177		
	0.5		5SJ4105-7HG41	1AE	5SJ4105-8HG41	1	1 unit	1AE	0.175		
	1		5SJ4101-7HG41	1AE	5SJ4101-8HG41	1	1 unit	1AE	0.173		
	1.6		5SJ4115-7HG41	1AE	5SJ4115-8HG41	1	1 unit	1AE	0.169		
	2		5SJ4102-7HG41	1AE	5SJ4102-8HG41	1	1 unit	1AE	0.171		
	3		5SJ4103-7HG41	1AE	5SJ4103-8HG41	1	1 unit	1AE	0.171		
	4		5SJ4104-7HG41	1AE	5SJ4104-8HG41	1	1 unit	1AE	0.169		
	5		5SJ4111-7HG41	1AE	5SJ4111-8HG41	1	1 unit	1AE	0.169		
	6		5SJ4106-7HG41	1AE	5SJ4106-8HG41	1	1 unit	1AE	0.169		
	8		5SJ4108-7HG41	1AE	5SJ4108-8HG41	1	1 unit	1AE	0.166		
	10		5SJ4110-7HG41	1AE	5SJ4110-8HG41	1	1 unit	1AE	0.171		
	13		5SJ4113-7HG41	1AE	5SJ4113-8HG41	1	1 unit	1AE	0.174		
	15		5SJ4118-7HG41	1AE	5SJ4118-8HG41	1	1 unit	1AE	0.170		
	16		5SJ4116-7HG41	1AE	5SJ4116-8HG41	1	1 unit	1AE	0.175		
	20		5SJ4120-7HG41	1AE	5SJ4120-8HG41	1	1 unit	1AE	0.172		
	25		5SJ4125-7HG41	1AE	5SJ4125-8HG41	1	1 unit	1AE	0.170		
	30		5SJ4130-7HG41	1AE	5SJ4130-8HG41	1	1 unit	1AE	0.177		
	32		5SJ4132-7HG41	1AE	5SJ4132-8HG41	1	1 unit	1AE	0.177		
	35		5SJ4135-7HG41	1AE	5SJ4135-8HG41	1	1 unit	1AE	0.155		
	40		5SJ4140-7HG41	1AE	5SJ4140-8HG41	1	1 unit	1AE	0.175		
45		5SJ4145-7HG41	1AE	5SJ4145-8HG41	1	1 unit	1AE	0.155			
50		5SJ4150-7HG41	1AE	5SJ4150-8HG41	1	1 unit	1AE	0.177			
60		5SJ4160-7HG41	1AE	5SJ4160-8HG41	1	1 unit	1AE	0.177			
63		5SJ4163-7HG41	1AE	5SJ4163-8HG41	1	1 unit	1AE	0.177			

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	DT	Characteristic C			Characteristic D			PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
			Article No. www.siemens.com/product?Article.No.	Price per PU	PG DT	Article No. www.siemens.com/product?Article.No.	Price per PU	PG				
A	MW ¹⁾										kg	
Miniature circuit breakers 2P, 240 V AC												
0.3	2		5SJ4214-7HG41		1AE	5SJ4214-8HG41		1	1 unit	1AE	0.310	
0.5			5SJ4205-7HG41		1AE	5SJ4205-8HG41		1	1 unit	1AE	0.341	
1			5SJ4201-7HG41		1AE	5SJ4201-8HG41		1	1 unit	1AE	0.332	
1.6			5SJ4215-7HG41		1AE	5SJ4215-8HG41		1	1 unit	1AE	0.310	
2			5SJ4202-7HG41		1AE	5SJ4202-8HG41		1	1 unit	1AE	0.326	
3			5SJ4203-7HG41		1AE	5SJ4203-8HG41		1	1 unit	1AE	0.328	
4			5SJ4204-7HG41		1AE	5SJ4204-8HG41		1	1 unit	1AE	0.322	
5			5SJ4211-7HG41		1AE	5SJ4211-8HG41		1	1 unit	1AE	0.325	
6			5SJ4206-7HG41		1AE	5SJ4206-8HG41		1	1 unit	1AE	0.325	
8			5SJ4208-7HG41		1AE	5SJ4208-8HG41		1	1 unit	1AE	0.333	
10			5SJ4210-7HG41		1AE	5SJ4210-8HG41		1	1 unit	1AE	0.330	
13			5SJ4213-7HG41		1AE	5SJ4213-8HG41		1	1 unit	1AE	0.329	
15			5SJ4218-7HG41		1AE	5SJ4218-8HG41		1	1 unit	1AE	0.328	
16			5SJ4216-7HG41		1AE	5SJ4216-8HG41		1	1 unit	1AE	0.329	
20			5SJ4220-7HG41		1AE	5SJ4220-8HG41		1	1 unit	1AE	0.332	
25			5SJ4225-7HG41		1AE	5SJ4225-8HG41		1	1 unit	1AE	0.334	
30			5SJ4230-7HG41		1AE	5SJ4230-8HG41		1	1 unit	1AE	0.345	
32			5SJ4232-7HG41		1AE	5SJ4232-8HG41		1	1 unit	1AE	0.340	
35			5SJ4235-7HG41		1AE	5SJ4235-8HG41		1	1 unit	1AE	0.310	
40			5SJ4240-7HG41		1AE	5SJ4240-8HG41		1	1 unit	1AE	0.343	
45			5SJ4245-7HG41		1AE	5SJ4245-8HG41		1	1 unit	1AE	0.342	
50			5SJ4250-7HG41		1AE	5SJ4250-8HG41		1	1 unit	1AE	0.340	
60			5SJ4260-7HG41		1AE	5SJ4260-8HG41		1	1 unit	1AE	0.343	
63			5SJ4263-7HG41		1AE	5SJ4263-8HG41		1	1 unit	1AE	0.339	
Miniature circuit breakers 3P, 240 V AC												
0.3	3		5SJ4314-7HG41		1AE	5SJ4314-8HG41		1	1 unit	1AE	0.499	
0.5			5SJ4305-7HG41		1AE	5SJ4305-8HG41		1	1 unit	1AE	0.465	
1			5SJ4301-7HG41		1AE	5SJ4301-8HG41		1	1 unit	1AE	0.489	
1.6			5SJ4315-7HG41		1AE	5SJ4315-8HG41		1	1 unit	1AE	0.482	
2			5SJ4302-7HG41		1AE	5SJ4302-8HG41		1	1 unit	1AE	0.479	
3			5SJ4303-7HG41		1AE	5SJ4303-8HG41		1	1 unit	1AE	0.487	
4			5SJ4304-7HG41		1AE	5SJ4304-8HG41		1	1 unit	1AE	0.465	
5			5SJ4311-7HG41		1AE	5SJ4311-8HG41		1	1 unit	1AE	0.484	
6			5SJ4306-7HG41		1AE	5SJ4306-8HG41		1	1 unit	1AE	0.485	
8			5SJ4308-7HG41		1AE	5SJ4308-8HG41		1	1 unit	1AE	0.491	
10			5SJ4310-7HG41		1AE	5SJ4310-8HG41		1	1 unit	1AE	0.491	
13			5SJ4313-7HG41		1AE	5SJ4313-8HG41		1	1 unit	1AE	0.487	
15			5SJ4318-7HG41		1AE	5SJ4318-8HG41		1	1 unit	1AE	0.488	
16			5SJ4316-7HG41		1AE	5SJ4316-8HG41		1	1 unit	1AE	0.490	
20			5SJ4320-7HG41		1AE	5SJ4320-8HG41		1	1 unit	1AE	0.484	
25			5SJ4325-7HG41		1AE	5SJ4325-8HG41		1	1 unit	1AE	0.491	
30			5SJ4330-7HG41		1AE	5SJ4330-8HG41		1	1 unit	1AE	0.506	
32			5SJ4332-7HG41		1AE	5SJ4332-8HG41		1	1 unit	1AE	0.510	
35			5SJ4335-7HG41		1AE	5SJ4335-8HG41		1	1 unit	1AE	0.507	
40			5SJ4340-7HG41		1AE	5SJ4340-8HG41		1	1 unit	1AE	0.498	
45			5SJ4345-7HG41		1AE	5SJ4345-8HG41		1	1 unit	1AE	0.500	
50			5SJ4350-7HG41		1AE	5SJ4350-8HG41		1	1 unit	1AE	0.523	
60			5SJ4360-7HG41		1AE	5SJ4360-8HG41		1	1 unit	1AE	0.506	
63			5SJ4363-7HG41		1AE	5SJ4363-8HG41		1	1 unit	1AE	0.504	

¹⁾ 1 MW (modular width) = 18 mm.

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

I_n	Mounting width	DT	Characteristic C			Characteristic D			PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
			Article No. www.siemens.com/product?Article.No.	Price per PU	PG DT	Article No. www.siemens.com/product?Article.No.	Price per PU	PG				
A	MW ¹⁾										kg	
Miniature circuit breakers 1P, 480Y/277 V AC												
	0.3	1	5SJ4114-7HG42		1AE	5SJ4114-8HG42		1	1 unit	1AE	0.155	
	0.5		5SJ4105-7HG42		1AE	5SJ4105-8HG42		1	1 unit	1AE	0.179	
	1		5SJ4101-7HG42		1AE	5SJ4101-8HG42		1	1 unit	1AE	0.179	
	1.6		5SJ4115-7HG42		1AE	5SJ4115-8HG42		1	1 unit	1AE	0.174	
	2		5SJ4102-7HG42		1AE	5SJ4102-8HG42		1	1 unit	1AE	0.175	
	3		5SJ4103-7HG42		1AE	5SJ4103-8HG42		1	1 unit	1AE	0.173	
	4		5SJ4104-7HG42		1AE	5SJ4104-8HG42		1	1 unit	1AE	0.175	
	5		5SJ4111-7HG42		1AE	5SJ4111-8HG42		1	1 unit	1AE	0.171	
	6		5SJ4106-7HG42		1AE	5SJ4106-8HG42		1	1 unit	1AE	0.175	
	8		5SJ4108-7HG42		1AE	5SJ4108-8HG42		1	1 unit	1AE	0.175	
	10		5SJ4110-7HG42		1AE	5SJ4110-8HG42		1	1 unit	1AE	0.175	
	13		5SJ4113-7HG42		1AE	5SJ4113-8HG42		1	1 unit	1AE	0.175	
	15		5SJ4118-7HG42		1AE	5SJ4118-8HG42		1	1 unit	1AE	0.175	
	16		5SJ4116-7HG42		1AE	5SJ4116-8HG42		1	1 unit	1AE	0.173	
	20		5SJ4120-7HG42		1AE	5SJ4120-8HG42		1	1 unit	1AE	0.174	
	25		5SJ4125-7HG42		1AE	5SJ4125-8HG42		1	1 unit	1AE	0.174	
	30		5SJ4130-7HG42		1AE	5SJ4130-8HG42		1	1 unit	1AE	0.182	
	32		5SJ4132-7HG42		1AE	5SJ4132-8HG42		1	1 unit	1AE	0.155	
	35		5SJ4135-7HG42		1AE	--						
	40		5SJ4140-7HG42		1AE	--						
Miniature circuit breakers 2P, 480Y/277 V AC												
	0.3	2	5SJ4214-7HG42		1AE	5SJ4214-8HG42		1	1 unit	1AE	0.346	
	0.5		5SJ4205-7HG42		1AE	5SJ4205-8HG42		1	1 unit	1AE	0.342	
	1		5SJ4201-7HG42		1AE	5SJ4201-8HG42		1	1 unit	1AE	0.338	
	1.6		5SJ4215-7HG42		1AE	5SJ4215-8HG42		1	1 unit	1AE	0.335	
	2		5SJ4202-7HG42		1AE	5SJ4202-8HG42		1	1 unit	1AE	0.335	
	3		5SJ4203-7HG42		1AE	5SJ4203-8HG42		1	1 unit	1AE	0.330	
	4		5SJ4204-7HG42		1AE	5SJ4204-8HG42		1	1 unit	1AE	0.335	
	5		5SJ4211-7HG42		1AE	5SJ4211-8HG42		1	1 unit	1AE	0.330	
	6		5SJ4206-7HG42		1AE	5SJ4206-8HG42		1	1 unit	1AE	0.334	
	8		5SJ4208-7HG42		1AE	5SJ4208-8HG42		1	1 unit	1AE	0.339	
	10		5SJ4210-7HG42		1AE	5SJ4210-8HG42		1	1 unit	1AE	0.338	
	13		5SJ4213-7HG42		1AE	5SJ4213-8HG42		1	1 unit	1AE	0.334	
	15		5SJ4218-7HG42		1AE	5SJ4218-8HG42		1	1 unit	1AE	0.337	
	16		5SJ4216-7HG42		1AE	5SJ4216-8HG42		1	1 unit	1AE	0.334	
	20		5SJ4220-7HG42		1AE	5SJ4220-8HG42		1	1 unit	1AE	0.342	
	25		5SJ4225-7HG42		1AE	5SJ4225-8HG42		1	1 unit	1AE	0.338	
	30		5SJ4230-7HG42		1AE	5SJ4230-8HG42		1	1 unit	1AE	0.342	
	32		5SJ4232-7HG42		1AE	5SJ4232-8HG42		1	1 unit	1AE	0.350	
	35		5SJ4235-7HG42		1AE	--						
	40		5SJ4240-7HG42		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	DT	Characteristic C			Characteristic D			PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
			Article No. www.siemens.com/product?Article No.	Price per PU	PG DT	Article No. www.siemens.com/product?Article No.	Price per PU	PG DT				
A	MW ¹⁾										kg	
Miniature circuit breakers 3P, 480Y/277 V AC												
0.3	3		5SJ4314-7HG42		1AE	5SJ4314-8HG42		1	1 unit	1AE	0.510	
0.5			5SJ4305-7HG42		1AE	5SJ4305-8HG42		1	1 unit	1AE	0.529	
1			5SJ4301-7HG42		1AE	5SJ4301-8HG42		1	1 unit	1AE	0.507	
1.6			5SJ4315-7HG42		1AE	5SJ4315-8HG42		1	1 unit	1AE	0.495	
2			5SJ4302-7HG42		1AE	5SJ4302-8HG42		1	1 unit	1AE	0.495	
3			5SJ4303-7HG42		1AE	5SJ4303-8HG42		1	1 unit	1AE	0.492	
4			5SJ4304-7HG42		1AE	5SJ4304-8HG42		1	1 unit	1AE	0.488	
5			5SJ4311-7HG42		1AE	5SJ4311-8HG42		1	1 unit	1AE	0.485	
6			5SJ4306-7HG42		1AE	5SJ4306-8HG42		1	1 unit	1AE	0.491	
8			5SJ4308-7HG42		1AE	5SJ4308-8HG42		1	1 unit	1AE	0.500	
10			5SJ4310-7HG42		1AE	5SJ4310-8HG42		1	1 unit	1AE	0.497	
13			5SJ4313-7HG42		1AE	5SJ4313-8HG42		1	1 unit	1AE	0.500	
15			5SJ4318-7HG42		1AE	5SJ4318-8HG42		1	1 unit	1AE	0.496	
16			5SJ4316-7HG42		1AE	5SJ4316-8HG42		1	1 unit	1AE	0.497	
20			5SJ4320-7HG42		1AE	5SJ4320-8HG42		1	1 unit	1AE	0.498	
25			5SJ4325-7HG42		1AE	5SJ4325-8HG42		1	1 unit	1AE	0.502	
30			5SJ4330-7HG42		1AE	5SJ4330-8HG42		1	1 unit	1AE	0.514	
32			5SJ4332-7HG42		1AE	5SJ4332-8HG42		1	1 unit	1AE	0.511	
35			5SJ4335-7HG42		1AE	--						
40			5SJ4340-7HG42		1AE	--						

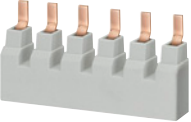
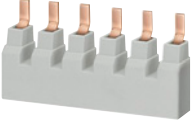






Mounting width	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Auxiliary switches (AS) acc. to UL 489							
0.5		5ST3010-0HG		1	1 unit	1AE	0.085
		5ST3011-0HG		1	1 unit	1AE	0.085
		5ST3012-0HG		1	1 unit	1AE	0.089
Fault signal contacts (FC) acc. to UL 489							
0.5		5ST3020-0HG		1	1 unit	1AE	0.085
		5ST3021-0HG		1	1 unit	1AE	0.085
		5ST3022-0HG		1	1 unit	1AE	0.083
Shunt trips (ST) acc. to UL 489							
1		5ST3030-0HG		1	1 unit	1AE	0.127
	▶	5ST3031-0HG		1	1 unit	1AE	0.128

¹⁾ 1 MW (modular width) = 18 mm.

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

Accessories




	Pin spacing	Length	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.	
	MW ¹⁾	mm							kg	
Busbars acc. to UL 489 specially for 5SJ4...-HG.. miniature circuit breakers, fixed lengths, cannot be cut²⁾, UL File E321559										
	Single-phase									
	For 6 MCBs 1P	1	100	5ST3663-0HG		1	10 units	1AE	0.058	
	For 12 MCBs 1P		205	5ST3663-1HG		1	10 units	1AE	0.115	
	For 18 MCBs 1P		310	5ST3663-2HG		1	10 units	1AE	0.173	
	Two-phase									
	For 3 MCBs 2P	1	100	5ST3664-0HG		1	10 units	1AE	0.067	
	For 6 MCBs 2P		205	5ST3664-1HG		1	10 units	1AE	0.138	
	For 9 MCBs 2P		310	5ST3664-2HG		1	10 units	1AE	0.212	
	Three-phase									
For 2 MCBs 3P	1	100	5ST3665-0HG		1	10 units	1AE	0.069		
For 4 MCBs 3P		205	5ST3665-1HG		1	10 units	1AE	0.156		
For 6 MCBs 3P		310	5ST3665-2HG		1	10 units	1AE	0.249		
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	0.820	
	For MCBs 1P with AS or FC		1016	5ST3703-3HG		1	1 unit	1AE	0.710	
	Two-phase									
	For MCBs 2P	1	1016	5ST3705-3HG		1	1 unit	1AE	1.010	
	For MCBs 2P with AS or FC		1016	5ST3707-3HG		1	1 unit	1AE	0.990	
	Three-phase									
	For MCBs 3P	1	1016	5ST3710-3HG		1	1 unit	1AE	1.230	
	For MCBs 3P with AS or FC	1+1+1.5	1016	5ST3712-3HG		1	1 unit	1AE	1.170	
	For MCBs 3x (1P with AS or FC)		1016	5ST3714-3HG		1	1 unit	1AE	1.160	
	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	0.036	
	• Max. 35 mm ²									
	Infeed at the miniature circuit breaker									
	• Specially for 5SJ4...-HG.. miniature circuit breakers			5ST3770-3HG		1	10 units	1AE	0.038	
• For 5ST37...-3HG busbars that can be cut only										
• Max. 35 mm ²										
	Infeed at the busbar									
	Max. 50 mm ²			5ST3666-2HG		1	10 units	1AE	0.034	
End cap for 5ST37...-3HG, can be cut acc. to UL 489										
	End cap									
	For 1-, 2-, 3-phase busbars			5ST3750-3HG		1	10 units	1AE	0.003	

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	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	MW ¹⁾	mm							
Touch protection covers for busbars acc. to UL 489									
	Touch protection covers 3 × 1 pin			5ST3666-1HG		1	10 units	1AE	0.004
	Touch protection covers <ul style="list-style-type: none"> For 5ST337...-3HG busbars that can be cut only 3 × 1 pin 			5ST3655-3HG		1	10 units	1AE	0.004
Handle locking devices according to UL, UL File E321559									
	Can be sealed against undesired manual ON/OFF switching, padlock with max. 3 mm shackle			5ST3801		1	1 unit	1AD	0.011
Padlocks									
	For 5ST3801 handle locking device			5ST3802		1	1 unit	1AD	0.033

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

SHU 5SP3 main miniature circuit breakers

Overview

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

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

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

Benefits

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

Technical specifications

		5SP37.., 5SP37..-1	5SP37..-2, 5SP37..-2KK0.	5SP38..-2
Standards		DIN VDE 0645	DIN VDE 0641-21	
Rated voltage U_n				
• 1-pole	V AC	230/400		--
• 3 x 1-pole	V AC	400	--	400
Operational voltage	Min.	V AC	110	
	Max.	V AC	440	
Rated frequency		Hz	50 ... 60	
Rated current I_n		A	16 ... 100	16 ... 63
Rated insulation voltage U_i		V AC	690	
Rated making and breaking capacity I_{cn}		A	25000	
Insulation coordination				
• Overvoltage category			IV	
• Pollution degree			3	
Surge strength 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	





Selection and ordering data

I_n	Mounting width	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
A	MW ¹⁾							kg
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	0.503
20			5SP3720-2KK01		1	1 unit	1AE	0.483
25			5SP3725-2KK01		1	1 unit	1AE	0.400
35			5SP3735-2KK01		1	1 unit	1AE	0.511
40			5SP3740-2KK01		1	1 unit	1AE	0.495
50			5SP3750-2KK01		1	1 unit	1AE	0.511
63			5SP3763-2KK01		1	1 unit	1AE	0.517
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	0.473
20			5SP3720-2KK02		1	1 unit	1AE	0.474
25			5SP3725-2KK02		1	1 unit	1AE	0.474
35			5SP3735-2KK02		1	1 unit	1AE	0.509
40			5SP3740-2KK02		1	1 unit	1AE	0.476
50			5SP3750-2KK02		1	1 unit	1AE	0.483
63			5SP3763-2KK02		1	1 unit	1AE	0.509
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	0.468
20			5SP3720-2KK03		1	1 unit	1AE	0.466
25			5SP3725-2KK03		1	1 unit	1AE	0.472
35			5SP3735-2KK03		1	1 unit	1AE	0.489
40			5SP3740-2KK03		1	1 unit	1AE	0.469
50			5SP3750-2KK03		1	1 unit	1AE	0.488
63			5SP3763-2KK03		1	1 unit	1AE	0.503
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	1.270
20			5SP3720-2		1	1 set	1AE	1.310
25			5SP3725-2		1	1 set	1AE	1.305
35			5SP3735-2		1	1 set	1AE	1.341
40			5SP3740-2		1	1 set	1AE	1.324
50			5SP3750-2		1	1 set	1AE	1.309
63			5SP3763-2		1	1 set	1AE	1.354
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	1.256
20			5SP3820-2		1	1 unit	1AE	1.281
25			5SP3825-2		1	1 unit	1AE	1.256
35			5SP3835-2		1	1 unit	1AE	1.277
40			5SP3840-2		1	1 unit	1AE	1.284
50			5SP3850-2		1	1 unit	1AE	1.262
63			5SP3863-2		1	1 unit	1AE	1.303

¹⁾ 1 MW (modular width) = 18 mm.







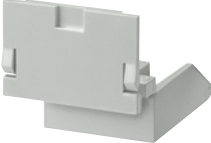
Miniature Circuit Breakers

SHU 5SP3 main miniature circuit breakers

I_n	Mounting width MW ¹⁾	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Acc. to DIN 0641-21 for mounting on 35 mm DIN rail								
Main miniature circuit breakers, 1P								
	16	1.5	5SP3716-3		1	1 unit	1AE	0.455
	20		5SP3720-3		1	1 unit	1AE	0.445
	25		5SP3725-3		1	1 unit	1AE	0.446
	35		5SP3735-3		1	1 unit	1AE	0.444
	40		5SP3740-3		1	1 unit	1AE	0.444
	50		5SP3750-3		1	1 unit	1AE	0.479
	63		5SP3763-3		1	1 unit	1AE	0.453
Main miniature circuit breakers, 3 x 1P								
	16	4.5	5SP3816-3		1	1 unit	1AE	1.086
	20		5SP3820-3		1	1 unit	1AE	1.082
	25		5SP3825-3		1	1 unit	1AE	1.082
	35		5SP3835-3		1	1 unit	1AE	1.087
	40		5SP3840-3		1	1 unit	1AE	1.088
	50		5SP3850-3		1	1 unit	1AE	1.100
	63		5SP3863-3		1	1 unit	1AE	1.110
Main miniature circuit breakers, 2P								
	16	3	5SP3216-3		1	1 unit	1AE	0.752
	20		5SP3220-3		1	1 unit	1AE	0.766
	25		5SP3225-3		1	1 unit	1AE	0.756
	35		5SP3235-3		1	1 unit	1AE	0.753
	40		5SP3240-3		1	1 unit	1AE	0.756
	50		5SP3250-3		1	1 unit	1AE	0.760
	63		5SP3263-3		1	1 unit	1AE	0.769
Main miniature circuit breakers, 3P								
	16	4.5	5SP3316-3		1	1 unit	1AE	1.090
	20		5SP3320-3		1	1 unit	1AE	1.089
	25		5SP3325-3		1	1 unit	1AE	1.104
	35		5SP3335-3		1	1 unit	1AE	1.089
	40		5SP3340-3		1	1 unit	1AE	1.091
	50		5SP3350-3		1	1 unit	1AE	1.102
	63		5SP3363-3		1	1 unit	1AE	1.111
Main miniature circuit breakers, 4P								
	16	6	5SP3416-3		1	1 unit	1AE	1.440
	20		5SP3420-3		1	1 unit	1AE	1.443
	25		5SP3425-3		1	1 unit	1AE	1.454
	35		5SP3435-3		1	1 unit	1AE	1.438
	40		5SP3440-3		1	1 unit	1AE	1.445
	50		5SP3450-3		1	1 unit	1AE	1.454
	63		5SP3463-3		1	1 unit	1AE	1.467

¹⁾ 1 MW (modular width) = 18 mm.

SHU 5SP3 main miniature circuit breakers

I_n	Mounting width	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx.
A	MW ¹⁾							kg
	Main miniature circuit breakers, 1P		5SP3780 5SP3791		1 1	1 unit 1 unit	1AE 1AE	0.515 0.529
	For mounting on standard mounting rail, busbar (spacing: 40 mm, with 5ST1 busbar adapter), or for screw fixing							
80								
100								
	Main miniature circuit breakers, 3 x 1P		5SP3780-1 5SP3791-1		1 1	1 set 1 set	1AE 1AE	1.785 1.857
	Premounted on 5ST1324 busbar adapter; can be clipped onto busbars (spacing: 40 mm); including three 5ST1323 transparent operating protective covers							
80		6						
100								
	Mounting plates		5ST1322		1	10 units	1AE	0.030
	For mounting on standard mounting rails according to EN 50022							
For 1 or 2 standard mounting rails, universal application, tier spacing 125 mm								
	Busbar adapters for 5SP37.. and 5SP37..-1		5ST1328		1	1 unit	1AE	0.250
	Suitable for busbar spacing 40 mm can be equipped with 3 selective main miniature circuit breakers							
	Breaker blocking covers for 5SP37.. and 5SP37..-1		5ST1318		1	10 units	1AE	0.003
	To prevent manual switching OFF							
	Operating protective covers, transparent, for 5SP37.. and 5SP37..-1		5ST1323		1	3 units	1AE	0.011
	Multiple locking options against accidental and intentional operation							
<ul style="list-style-type: none"> • Padlocks • Phillips screwdrivers • Special wrenches (Antilux) • These can be installed by the operator or the power utility 								
	Terminal covers for 5SP37.. and 5SP37..-1		5ST1316		1	6 units	1AE	0.005
	2 units required per device							
Terminal covers in compliance with cladding dimensions acc. to DIN 43880								

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

Miniature Circuit Breakers

Notes

3