

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.)

3KD2832-0NE10-0

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

Service & Support Portal:

www.siemens.com/lowvoltage/product-support






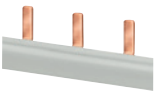


→ Product List:
 Technical specifications

→ Entry List:
 Certificates / Characteristics /
 Download / FAQ / Manuals /
 Updates

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.

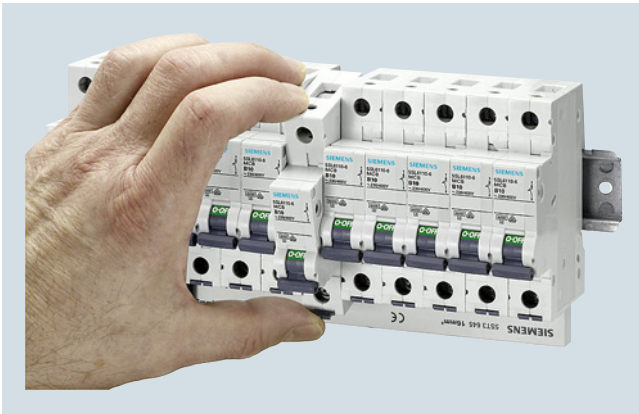
Benefits



- 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 5SL 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	www.siemens.com/lowvoltage/certificates		
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 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	
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 ... 1A, characteristic D: 0.3 ... 2A.

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	PG				
Miniature circuit breakers 4500 A														
	1P, 230/400 V AC													
	0.3	1	--											
	0.5		--											
	1		--											
	1.6		--											
	2		--											
	3		--											
	4		--											
	6		5SL3106-6					019						
	8		--											
	10		5SL3110-6					019						
	13		5SL3113-6					019						
	16		5SL3116-6					019						
	20		5SL3120-6					019						
	25		5SL3125-6					019						
	32		5SL3132-6					019						
40		5SL3140-6					019							
50		5SL3150-6					019							
63		5SL3163-6					019							
	1P+N, 230 V AC													
	0.3	2	--											
	0.5		--											
	1		--											
	1.6		--											
	2		--											
	3		--											
	4		--											
	6		5SL3506-6					019						
	8		--											
	10		5SL3510-6					019						
	13		5SL3513-6					019						
	16		5SL3516-6					019						
	20		5SL3520-6					019						
	25		5SL3525-6					019						
	32		5SL3532-6					019						
40		5SL3540-6					019							
50		5SL3550-6					019							
63		5SL3563-6					019							
	2P, 400 V AC													
	0.3	2	--											
	0.5		--											
	1		--											
	1.6		--											
	2		--											
	3		--											
	4		--											
	6		5SL3206-6					019						
	8		--											
	10		5SL3210-6					019						
	13		5SL3213-6					019						
	16		5SL3216-6					019						
	20		5SL3220-6					019						
	25		5SL3225-6					019						
	32		5SL3232-6					019						
40		5SL3240-6					019							
50		5SL3250-6					019							
63		5SL3263-6					019							

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers





5SL Miniature Circuit Breakers

5SL3, 4500 A

4500 3		I_n	Mounting width MW ¹⁾	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 DT				
Miniature circuit breakers 4500 A														
	3P, 400 V AC													
	1	--												
	2	--												
	3	--												
	4	--												
	6	5SL3306-6			019			5SL3306-7						
	10	5SL3310-6			019			5SL3310-7						
	16	5SL3316-6			019			5SL3316-7						
	20	5SL3320-6			019			5SL3320-7						
	25	5SL3325-6			019			5SL3325-7						
	32	5SL3332-6			019			5SL3332-7						
	40	5SL3340-6			019			5SL3340-7						
	50	5SL3350-6			019			5SL3350-7						
63	5SL3363-6			019			5SL3363-7							
	3P+N, 400 V AC													
	1	--												
	2	--												
	3	--												
	4	--												
	6	5SL3606-6			019			5SL3606-7						
	8	--												
	10	5SL3610-6			019			5SL3610-7						
	13	5SL3613-6			019			5SL3613-7						
	16	5SL3616-6			019			5SL3616-7						
	20	5SL3620-6			019			5SL3620-7						
	25	5SL3625-6			019			5SL3625-7						
	32	5SL3632-6			019			5SL3632-7						
40	5SL3640-6			019			5SL3640-7							
50	5SL3650-6			019			5SL3650-7							
63	5SL3663-6			019			5SL3663-7							
	4P, 400 V AC													
	1	--												
	2	--												
	3	--												
	4	--												
	6	--												
	10	--												
	13	--												
	16	--												
	20	--												
	25	--												
	32	--												
	40	--												
50	--													
63	--													

¹⁾ 1 MW (modular width) = 18 mm.

Selection and ordering data





6000 3		I_n	Mount- ing width MW ¹⁾	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	Article No. www.siemens.com/ product?Article.No.	Price per PU					
Miniature circuit breakers 6000 A																	
	1P, 230/400 V AC																
	0.3	1	--										1	1 unit	001	0.165	
	0.5		--										1	1 unit	001	0.159	
	1		--										1	1/12 units	001	0.149	
	1.6		--										1	1 unit	001	0.156	
	2		--										1	1/12 units	001	0.150	
	3		--										1	1 unit	001	0.154	
	4		--											1	1/12 units	001	0.139
	6		5SL6106-6					001						1	1/12 units	001	0.115
	8		--											1	1 unit	001	0.138
	10		5SL6110-6					001						1	1/12 units	001	0.123
	13		5SL6113-6					001						1	1/12 units	001	0.136
	16		5SL6116-6					001						1	1/12 units	001	0.119
	20		5SL6120-6					001						1	1/12 units	001	0.121
	25		5SL6125-6					001						1	1/12 units	001	0.123
	32		5SL6132-6					001						1	1/12 units	001	0.147
40		5SL6140-6					001						1	1/12 units	001	0.147	
50		5SL6150-6					001						1	1/12 units	001	0.174	
63		5SL6163-6					001						1	1/12 units	001	0.130	
	1P+N, 230 V AC																
	0.3	2	--										1	1 unit	001	0.287	
	0.5		--										1	1 unit	001	0.286	
	1		--										1	1 unit	001	0.280	
	1.6		--										1	1 unit	001	0.267	
	2		--										1	1 unit	001	0.281	
	3		--										1	1 unit	001	0.279	
	4		--											1	1 unit	001	0.277
	6		5SL6506-6					001						1	1/6 units	001	0.226
	8		--											1	1 unit	001	0.210
	10		5SL6510-6					001						1	1/6 units	001	0.227
	13		5SL6513-6					001						1	1/6 units	001	0.226
	16		5SL6516-6					001						1	1/6 units	001	0.218
	20		5SL6520-6					001						1	1 unit	001	0.230
	25		5SL6525-6					001						1	1 unit	001	0.251
	32		5SL6532-6					001						1	1 unit	001	0.277
40		5SL6540-6					001						1	1 unit	001	0.284	
50		5SL6550-6					001						1	1 unit	001	0.303	
63		5SL6563-6					001						1	1 unit	001	0.301	
	2P, 400 V AC																
	0.3	2	--										1	1 unit	001	0.309	
	0.5		--										1	1 unit	001	0.307	
	1		--										1	1 unit	001	0.303	
	1.6		--										1	1 unit	001	0.304	
	2		--										1	1/6 units	001	0.300	
	3		--										1	1/6 units	001	0.286	
	4		--											1	1/6 units	001	0.284
	6		5SL6206-6					001						1	1/6 units	001	0.217
	8		--											1	1 unit	001	0.255
	10		5SL6210-6					001						1	1/6 units	001	0.235
	13		5SL6213-6					001						1	1 unit	001	0.249
	16		5SL6216-6					001						1	1/6 units	001	0.240
	20		5SL6220-6					001						1	1/6 units	001	0.205
	25		5SL6225-6					001						1	1/6 units	001	0.246
	32		5SL6232-6					001						1	1/6 units	001	0.294
40		5SL6240-6					001						1	1 unit	001	0.307	
50		5SL6250-6					001						1	1 unit	001	0.324	
63		5SL6263-6					001						1	1 unit	001	0.319	

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers





5SL Miniature Circuit Breakers

5SL6, 6000 A

6000 3			I_n	Mounting width MW ¹⁾	DT	Characteristic B		Characteristic C		PU	PS*/ P. unit	PG	Weight per PU approx.	
				A		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 6000 A														
3P, 400 V AC														
				0.3	3	--				5SL6314-7		1	1 unit	0.458
				0.5		--				5SL6305-7		1	1 unit	0.448
				1		--				5SL6301-7		1	1 unit	0.457
				1.6		--				5SL6315-7		1	1 unit	0.445
				2		--				5SL6302-7		1	1 unit	0.453
				3		--				5SL6303-7		1	1 unit	0.439
				4		--				5SL6304-7		1	1 unit	0.439
				6		5SL6306-6			0.01	5SL6306-7		1	1/4 units	0.368
				8		--				5SL6308-7		1	1 unit	0.376
				10		5SL6310-6			0.01	5SL6310-7		1	1/4 units	0.368
				13		5SL6313-6			0.01	5SL6313-7		1	1 unit	0.370
				16		5SL6316-6			0.01	5SL6316-7		1	1/4 units	0.362
				20		5SL6320-6			0.01	5SL6320-7		1	1/4 units	0.362
				25		5SL6325-6			0.01	5SL6325-7		1	1/4 units	0.330
		32		5SL6332-6			0.01	5SL6332-7		1	1/4 units	0.424		
		40		5SL6340-6			0.01	5SL6340-7		1	1/4 units	0.446		
		50		5SL6350-6			0.01	5SL6350-7		1	1/4 units	0.481		
		63		5SL6363-6			0.01	5SL6363-7		1	1/4 units	0.452		
3P+N, 400 V AC														
				0.3	4	--				5SL6614-7		1	1 unit	0.660
				0.5		--				5SL6605-7		1	1 unit	0.576
				1		--				5SL6601-7		1	1 unit	0.660
				1.6		--				5SL6615-7		1	1 unit	0.580
				2		--				5SL6602-7		1	1 unit	0.576
				3		--				5SL6603-7		1	1 unit	0.566
				4		--				5SL6604-7		1	1 unit	0.564
				6		5SL6606-6			0.01	5SL6606-7		1	1 unit	0.558
				8		--				5SL6608-7		1	1 unit	0.563
				10		5SL6610-6			0.01	5SL6610-7		1	1 unit	0.569
				13		5SL6613-6			0.01	5SL6613-7		1	1/3 units	0.566
				16		5SL6616-6			0.01	5SL6616-7		1	1/3 units	0.560
				20		5SL6620-6			0.01	5SL6620-7		1	1 unit	0.569
				25		5SL6625-6			0.01	5SL6625-7		1	1 unit	0.568
		32		5SL6632-6			0.01	5SL6632-7		1	1 unit	0.568		
		40		5SL6640-6			0.01	5SL6640-7		1	1 unit	0.590		
		50		5SL6650-6			0.01	5SL6650-7		1	1 unit	0.599		
		63		5SL6663-6			0.01	5SL6663-7		1	1 unit	0.610		
4P, 400 V AC														
				0.3	4	--				5SL6414-7		1	1 unit	0.611
				0.5		--				5SL6405-7		1	1 unit	0.612
				1		--				5SL6401-7		1	1 unit	0.594
				1.6		--				5SL6415-7		1	1 unit	0.660
				2		--				5SL6402-7		1	1 unit	0.580
				3		--				5SL6403-7		1	1 unit	0.585
				4		--				5SL6404-7		1	1 unit	0.583
				6		5SL6406-6			0.01	5SL6406-7		1	1 unit	0.496
				8		--				5SL6408-7		1	1 unit	0.660
				10		5SL6410-6			0.01	5SL6410-7		1	1/3 units	0.488
				13		5SL6413-6			0.01	5SL6413-7		1	1 unit	0.488
				16		5SL6416-6			0.01	5SL6416-7		1	1 unit	0.486
				20		5SL6420-6			0.01	5SL6420-7		1	1 unit	0.484
				25		5SL6425-6			0.01	5SL6425-7		1	1 unit	0.495
		32		5SL6432-6			0.01	5SL6432-7		1	1 unit	0.590		
		40		5SL6440-6			0.01	5SL6440-7		1	1 unit	0.614		
		50		5SL6450-6			0.01	5SL6450-7		1	1 unit	0.642		
		63		5SL6463-6			0.01	5SL6463-7		1	1 unit	0.628		

¹⁾ 1 MW (modular width) = 18 mm.





Selection and ordering data

10000 3	 I _n	Mount- ing width MW ¹⁾	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													
	1P, 230/400 V AC												
	0.3	1	--				5SL4114-7		1	1 unit	002	0.165	
	0.5		--				5SL4105-7		1	1 unit	002	0.159	
	1		5SL4101-6			002	5SL4101-7		1	1/12 units	002	0.150	
	1.6		--				5SL4115-7		1	1 unit	002	0.154	
	2		5SL4102-6			002	5SL4102-7		1	1/12 units	002	0.153	
	3		5SL4103-6			002	5SL4103-7		1	1 unit	002	0.166	
	4		5SL4104-6			002	5SL4104-7		1	1/12 units	002	0.151	
	6		5SL4106-6			002	5SL4106-7		1	1/12 units	002	0.163	
	8		5SL4108-6			002	5SL4108-7		1	1 unit	002	0.161	
	10		5SL4110-6			002	5SL4110-7		1	1/12 units	002	0.153	
	13		5SL4113-6			002	5SL4113-7		1	1/12 units	002	0.150	
	16		5SL4116-6			002	5SL4116-7		1	1/12 units	002	0.153	
	20		5SL4120-6			002	5SL4120-7		1	1 unit	002	0.161	
	25		5SL4125-6			002	5SL4125-7		1	1 unit	002	0.156	
	32		5SL4132-6			002	5SL4132-7		1	1 unit	002	0.160	
40		5SL4140-6			002	5SL4140-7		1	1 unit	002	0.165		
50		5SL4150-6			002	5SL4150-7		1	1 unit	002	0.170		
63		5SL4163-6			002	5SL4163-7		1	1 unit	002	0.165		
	1P+N, 230 V AC												
	0.3	2	--				5SL4514-7		1	1 unit	002	0.330	
	0.5		--				5SL4505-7		1	1 unit	002	0.330	
	1		5SL4501-6			002	5SL4501-7		1	1 unit	002	0.330	
	1.6		--				5SL4515-7		1	1 unit	002	0.330	
	2		5SL4502-6			002	5SL4502-7		1	1 unit	002	0.330	
	3		5SL4503-6			002	5SL4503-7		1	1 unit	002	0.330	
	4		5SL4504-6			002	5SL4504-7		1	1 unit	002	0.330	
	6		5SL4506-6			002	5SL4506-7		1	1 unit	002	0.330	
	8		5SL4508-6			002	5SL4508-7		1	1 unit	002	0.330	
	10		5SL4510-6			002	5SL4510-7		1	1 unit	002	0.307	
	13		5SL4513-6			002	5SL4513-7		1	1 unit	002	0.330	
	16		5SL4516-6			002	5SL4516-7		1	1 unit	002	0.318	
	20		5SL4520-6			002	5SL4520-7		1	1 unit	002	0.330	
	25		5SL4525-6			002	5SL4525-7		1	1 unit	002	0.330	
	32		5SL4532-6			002	5SL4532-7		1	1 unit	002	0.311	
40		5SL4540-6			002	5SL4540-7		1	1 unit	002	0.330		
50		5SL4550-6			002	5SL4550-7		1	1 unit	002	0.330		
63		5SL4563-6			002	5SL4563-7		1	1 unit	002	0.330		
	2P, 400 V AC												
	0.3	2	--				5SL4214-7		1	1 unit	002	0.330	
	0.5		--				5SL4205-7		1	1 unit	002	0.308	
	1		5SL4201-6			002	5SL4201-7		1	1 unit	002	0.312	
	1.6		--				5SL4215-7		1	1 unit	002	0.307	
	2		5SL4202-6			002	5SL4202-7		1	1 unit	002	0.267	
	3		5SL4203-6			002	5SL4203-7		1	1 unit	002	0.330	
	4		5SL4204-6			002	5SL4204-7		1	1 unit	002	0.330	
	6		5SL4206-6			002	5SL4206-7		1	1 unit	002	0.313	
	8		5SL4208-6			002	5SL4208-7		1	1 unit	002	0.330	
	10		5SL4210-6			002	5SL4210-7		1	1 unit	002	0.330	
	13		5SL4213-6			002	5SL4213-7		1	1 unit	002	0.330	
	16		5SL4216-6			002	5SL4216-7		1	1 unit	002	0.313	
	20		5SL4220-6			002	5SL4220-7		1	1 unit	002	0.312	
	25		5SL4225-6			002	5SL4225-7		1	1 unit	002	0.313	
	32		5SL4232-6			002	5SL4232-7		1	1 unit	002	0.311	
40		5SL4240-6			002	5SL4240-7		1	1 unit	002	0.315		
50		5SL4250-6			002	5SL4250-7		1	1 unit	002	0.330		
63		5SL4263-6			002	5SL4263-7		1	1 unit	002	0.330		

Miniature Circuit Breakers

5SL Miniature Circuit Breakers






5SL4, 10000 A

10000 3			I_n	Mount- ing 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 unit	002	0.465
	0.5					--			5SL4305-7		1	1 unit	002	0.465
	1					5SL4301-6		002	5SL4301-7		1	1 unit	002	0.465
	1.6					--			5SL4315-7		1	1 unit	002	0.465
	2					5SL4302-6		002	5SL4302-7		1	1 unit	002	0.463
	3					5SL4303-6		002	5SL4303-7		1	1 unit	002	0.465
	4					5SL4304-6		002	5SL4304-7		1	1 unit	002	0.465
	6					5SL4306-6		002	5SL4306-7		1	1 unit	002	0.461
	8					5SL4308-6		002	5SL4308-7		1	1 unit	002	0.465
	10					5SL4310-6		002	5SL4310-7		1	1 unit	002	0.463
	13					5SL4313-6		002	5SL4313-7		1	1 unit	002	0.465
	16					5SL4316-6		002	5SL4316-7		1	1/4 units	002	0.460
	20					5SL4320-6		002	5SL4320-7		1	1 unit	002	0.463
	25					5SL4325-6		002	5SL4325-7		1	1 unit	002	0.463
	32					5SL4332-6		002	5SL4332-7		1	1/4 units	002	0.456
40					5SL4340-6		002	5SL4340-7		1	1 unit	002	0.464	
50					5SL4350-6		002	5SL4350-7		1	1 unit	002	0.481	
63					5SL4363-6		002	5SL4363-7		1	1 unit	002	0.489	
3P+N, 400 V AC														
	0.3		4			--			5SL4614-7		1	1 unit	002	0.660
	0.5					--			5SL4605-7		1	1 unit	002	0.660
	1					5SL4601-6		002	5SL4601-7		1	1 unit	002	0.660
	1.6					--			5SL4615-7		1	1 unit	002	0.660
	2					5SL4602-6		002	5SL4602-7		1	1 unit	002	0.660
	3					5SL4603-6		002	5SL4603-7		1	1 unit	002	0.660
	4					5SL4604-6		002	5SL4604-7		1	1 unit	002	0.660
	6					5SL4606-6		002	5SL4606-7		1	1 unit	002	0.660
	8					5SL4608-6		002	5SL4608-7		1	1 unit	002	0.660
	10					5SL4610-6		002	5SL4610-7		1	1 unit	002	0.607
	13					5SL4613-6		002	5SL4613-7		1	1 unit	002	0.598
	16					5SL4616-6		002	5SL4616-7		1	1 unit	002	0.613
	20					5SL4620-6		002	5SL4620-7		1	1 unit	002	0.660
	25					5SL4625-6		002	5SL4625-7		1	1 unit	002	0.613
	32					5SL4632-6		002	5SL4632-7		1	1 unit	002	0.610
40					5SL4640-6		002	5SL4640-7		1	1 unit	002	0.616	
50					5SL4650-6		002	5SL4650-7		1	1 unit	002	0.660	
63					5SL4663-6		002	5SL4663-7		1	1 unit	002	0.645	
4P, 400 V AC														
	0.3		4			--			5SL4414-7		1	1 unit	002	0.660
	0.5					--			5SL4405-7		1	1 unit	002	0.660
	1					5SL4401-6		002	5SL4401-7		1	1 unit	002	0.660
	1.6					--			5SL4415-7		1	1 unit	002	0.660
	2					5SL4402-6		002	5SL4402-7		1	1 unit	002	0.660
	3					5SL4403-6		002	5SL4403-7		1	1 unit	002	0.660
	4					5SL4404-6		002	5SL4404-7		1	1 unit	002	0.660
	6					5SL4406-6		002	5SL4406-7		1	1 unit	002	0.660
	8					5SL4408-6		002	5SL4408-7		1	1 unit	002	0.660
	10					5SL4410-6		002	5SL4410-7		1	1 unit	002	0.614
	13					5SL4413-6		002	5SL4413-7		1	1 unit	002	0.660
	16					5SL4416-6		002	5SL4416-7		1	1 unit	002	0.620
	20					5SL4420-6		002	5SL4420-7		1	1 unit	002	0.660
	25					5SL4425-6		002	5SL4425-7		1	1 unit	002	0.614
	32					5SL4432-6		002	5SL4432-7		1	1 unit	002	0.605
40					5SL4440-6		002	5SL4440-7		1	1 unit	002	0.660	
50					5SL4450-6		002	5SL4450-7		1	1 unit	002	0.660	
63					5SL4463-6		002	5SL4463-7		1	1 unit	002	0.628	

Miniature Circuit Breakers

5SL Miniature Circuit Breakers






5SL4, 10000 A

		I_n	Mounting width	DT	Characteristic D	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 10000 A										
	1P, 230/400 V AC									
		0.3	1		5SL4114-8		1	1 unit	002	0.165
		0.5			5SL4105-8		1	1 unit	002	0.165
		1			5SL4101-8		1	1 unit	002	0.165
		1.6			5SL4115-8		1	1 unit	002	0.165
		2			5SL4102-8		1	1 unit	002	0.165
		3			5SL4103-8		1	1 unit	002	0.165
		4			5SL4104-8		1	1 unit	002	0.165
		6			5SL4106-8		1	1 unit	002	0.165
		8			5SL4108-8		1	1 unit	002	0.158
		10			5SL4110-8		1	1 unit	002	0.165
		13			5SL4113-8		1	1 unit	002	0.165
		16			5SL4116-8		1	1 unit	002	0.165
		20			5SL4120-8		1	1 unit	002	0.165
		25			5SL4125-8		1	1 unit	002	0.165
		32			5SL4132-8		1	1 unit	002	0.165
	40			5SL4140-8		1	1 unit	002	0.165	
	50			5SL4150-8		1	1 unit	002	0.165	
	63			5SL4163-8		1	1 unit	002	0.165	
	1P+N, 230 V AC									
		0.3	2		5SL4514-8		1	1 unit	002	0.330
		0.5			5SL4505-8		1	1 unit	002	0.330
		1			5SL4501-8		1	1 unit	002	0.330
		1.6			5SL4515-8		1	1 unit	002	0.330
		2			5SL4502-8		1	1 unit	002	0.330
		3			5SL4503-8		1	1 unit	002	0.305
		4			5SL4504-8		1	1 unit	002	0.330
		6			5SL4506-8		1	1 unit	002	0.330
		8			5SL4508-8		1	1 unit	002	0.330
		10			5SL4510-8		1	1 unit	002	0.330
		13			5SL4513-8		1	1 unit	002	0.330
		16			5SL4516-8		1	1 unit	002	0.330
		20			5SL4520-8		1	1 unit	002	0.330
		25			5SL4525-8		1	1 unit	002	0.311
		32			5SL4532-8		1	1 unit	002	0.330
	40			5SL4540-8		1	1 unit	002	0.330	
	50			5SL4550-8		1	1 unit	002	0.330	
	63			5SL4563-8		1	1 unit	002	0.330	
	2P, 400 V AC									
		0.3	2		5SL4214-8		1	1 unit	002	0.330
		0.5			5SL4205-8		1	1 unit	002	0.330
		1			5SL4201-8		1	1 unit	002	0.330
		1.6			5SL4215-8		1	1 unit	002	0.330
		2			5SL4202-8		1	1 unit	002	0.330
		3			5SL4203-8		1	1/6 units	002	0.330
		4			5SL4204-8		1	1 unit	002	0.330
		6			5SL4206-8		1	1 unit	002	0.330
		8			5SL4208-8		1	1 unit	002	0.330
		10			5SL4210-8		1	1 unit	002	0.300
		13			5SL4213-8		1	1 unit	002	0.330
		16			5SL4216-8		1	1 unit	002	0.330
		20			5SL4220-8		1	1 unit	002	0.330
		25			5SL4225-8		1	1 unit	002	0.330
		32			5SL4232-8		1	1 unit	002	0.330
	40			5SL4240-8		1	1 unit	002	0.330	
	50			5SL4250-8		1	1 unit	002	0.330	
	63			5SL4263-8		1	1 unit	002	0.330	

Miniature Circuit Breakers

5SL Miniature Circuit Breakers

5SL4, 10000 A

 	I_n	Mounting width MW ¹⁾	DT	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							
Miniature circuit breakers 10000 A												
	3P, 400 V AC			3								
	0.3	5SL4314-8	1							1 unit	002	0.465
	0.5	5SL4305-8	1							1 unit	002	0.465
	1	5SL4301-8	1							1 unit	002	0.465
	1.6	5SL4315-8	1							1 unit	002	0.465
	2	5SL4302-8	1							1 unit	002	0.465
	3	5SL4303-8	1							1 unit	002	0.465
	4	5SL4304-8	1							1 unit	002	0.465
	6	5SL4306-8	1							1 unit	002	0.465
	8	5SL4308-8	1							1 unit	002	0.465
	10	5SL4310-8	1							1 unit	002	0.465
	13	5SL4313-8	1							1 unit	002	0.465
	16	5SL4316-8	1							1 unit	002	0.465
	20	5SL4320-8	1							1 unit	002	0.465
	25	5SL4325-8	1							1 unit	002	0.465
	32	5SL4332-8	1							1 unit	002	0.465
40	5SL4340-8	1	1 unit	002	0.465							
50	5SL4350-8	1	1 unit	002	0.489							
63	5SL4363-8	1	1 unit	002	0.465							
	3P+N, 400 V AC			4								
	0.3	5SL4614-8	1							1 unit	002	0.660
	0.5	5SL4605-8	1							1 unit	002	0.660
	1	5SL4601-8	1							1 unit	002	0.660
	1.6	5SL4615-8	1							1 unit	002	0.660
	2	5SL4602-8	1							1 unit	002	0.660
	3	5SL4603-8	1							1 unit	002	0.660
	4	5SL4604-8	1							1 unit	002	0.660
	6	5SL4606-8	1							1 unit	002	0.660
	8	5SL4608-8	1							1 unit	002	0.660
	10	5SL4610-8	1							1 unit	002	0.660
	13	5SL4613-8	1							1 unit	002	0.660
	16	5SL4616-8	1							1 unit	002	0.611
	20	5SL4620-8	1							1 unit	002	0.610
	25	5SL4625-8	1							1 unit	002	0.660
	32	5SL4632-8	1							1 unit	002	0.616
40	5SL4640-8	1	1 unit	002	0.617							
50	5SL4650-8	1	1 unit	002	0.660							
63	5SL4663-8	1	1 unit	002	0.660							
	4P, 400 V AC			4								
	0.3	5SL4414-8	1							1 unit	002	0.660
	0.5	5SL4405-8	1							1 unit	002	0.660
	1	5SL4401-8	1							1 unit	002	0.603
	1.6	5SL4415-8	1							1 unit	002	0.660
	2	5SL4402-8	1							1 unit	002	0.660
	3	5SL4403-8	1							1 unit	002	0.660
	4	5SL4404-8	1							1 unit	002	0.660
	6	5SL4406-8	1							1 unit	002	0.660
	8	5SL4408-8	1							1 unit	002	0.660
	10	5SL4410-8	1							1 unit	002	0.660
	13	5SL4413-8	1							1 unit	002	0.660
	16	5SL4416-8	1							1 unit	002	0.660
	20	5SL4420-8	1							1 unit	002	0.660
	25	5SL4425-8	1							1 unit	002	0.660
	32	5SL4432-8	1							1 unit	002	0.616
40	5SL4440-8	1	1 unit	002	0.618							
50	5SL4450-8	1	1 unit	002	0.660							
63	5SL4463-8	1	1 unit	002	0.660							

Overview

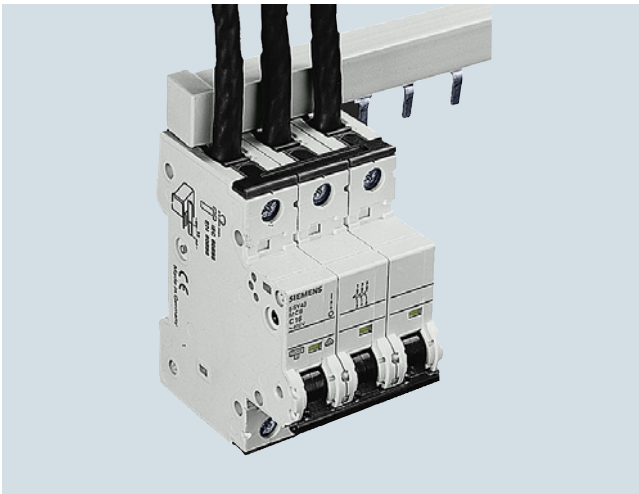
Miniature circuit breakers are used to protect systems and installations in buildings and for industrial applications.

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.

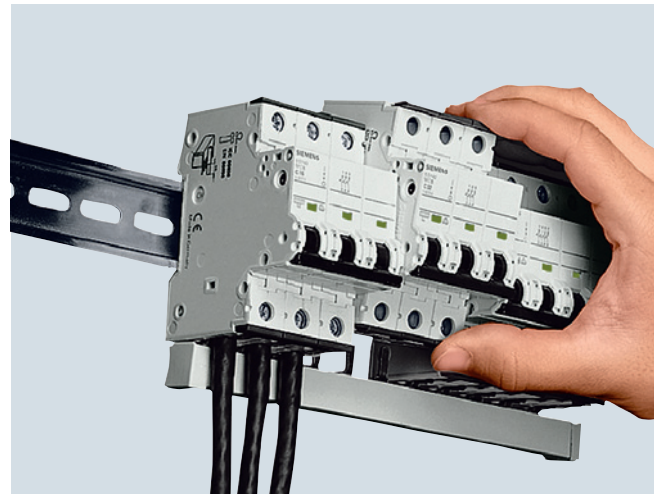
The devices are approved for worldwide use according to IEC standards for power supply systems up to 250/440 V AC. 72 V DC per pole is permitted in DC systems.

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".

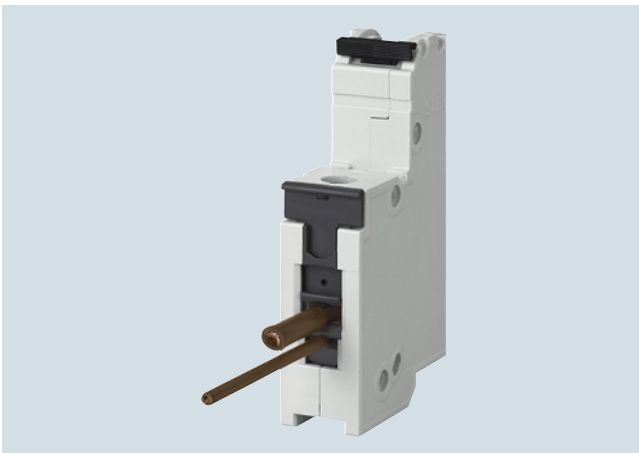
Benefits



- 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		www.siemens.com/lowvoltage/certificates					
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
• I_{cn} acc. to IEC/EN 60898-2	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 V DC/pole	250/440 --	--	250	--	--	--
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		--					
Terminals	± screw (Pozidriv)	2					
• Tunnel terminals at both ends		--					
• Combined terminals at both ends		Yes					
• Terminal tightening torque	Nm lbs/in.	2.5 ... 3 22 ... 26					
Conductor cross-sections							
• Solid and stranded	mm ²	0.75 ... 35					
• Finely stranded, with end sleeve	mm ²	0.75 ... 25					
• AWG conductors (Cu 60/75 °C $I_n \leq 40$ A; 60 °C $I_n > 40$ A)	AWG	14 ... 4					
Mains connection							
• AC		Any					
• DC		Any					
Mounting position		Any					
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 sec)					

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 III.

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 MW ¹⁾	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. kg
Miniature circuit breakers 6 000 A															
	1P, 230/400 V AC														
	0.3	1	--							5SY6114-7		1	1 unit	001	0.168
	0.5		--							5SY6105-7		1	1/12 units	001	0.157
	1		--							5SY6101-7		1	1/12 units	001	0.148
	1.6		--							5SY6115-7		1	1 unit	001	0.162
	2		--			5SY6102-6		001	▶	5SY6102-7		1	1/12 units	001	0.158
	3		--							5SY6103-7		1	1/12 units	001	0.152
	4		--			5SY6104-6		001	▶	5SY6104-7		1	1/12 units	001	0.160
	5		NEW							5SY6111-7		1	1 unit	001	0.161
	6		--			5SY6106-6		001	▶	5SY6106-7		1	1/12 units	001	0.150
	8		--							5SY6108-7		1	1/12 units	001	0.150
	10		--			5SY6110-6		001	▶	5SY6110-7		1	1/12 units	001	0.159
	13		--			5SY6113-6		001		5SY6113-7		1	1/12 units	001	0.152
	15		NEW							5SY6118-7		1	1 unit	001	0.158
	16		--			5SY6116-6		001	▶	5SY6116-7		1	1/12 units	001	0.150
	20		--			5SY6120-6		001		5SY6120-7		1	1/12 units	001	
25		--			5SY6125-6		001		5SY6125-7		1	1/12 units	001	0.153	
30		NEW							5SY6130-7		1	1 unit	001	0.148	
32		--			5SY6132-6		001		5SY6132-7		1	1/12 units	001	0.154	
40		--			5SY6140-6		001		5SY6140-7		1	1/12 units	001	0.154	
50		--			5SY6150-6		001		5SY6150-7		1	1/12 units	001	0.160	
63		--			5SY6163-6		001		5SY6163-7		1	1/12 units	001	0.164	
	1P+N, 230 V AC														
	0.3	2	--							5SY6514-7		1	1 unit	001	0.328
	0.5		--							5SY6505-7		1	1 unit	001	0.324
	1		--							5SY6501-7		1	1 unit	001	0.319
	1.6		--							5SY6515-7		1	1 unit	001	0.311
	2		--			5SY6506-6		001		5SY6502-7		1	1 unit	001	0.321
	3		--							5SY6503-7		1	1 unit	001	0.311
	4		--			5SY6510-6		001		5SY6504-7		1	1 unit	001	0.313
	6		--			5SY6513-6		001		5SY6506-7		1	1/6 units	001	0.302
	8		--							5SY6508-7		1	1 unit	001	0.313
	10		--			5SY6510-6		001		5SY6510-7		1	1/6 units	001	0.302
	13		--			5SY6513-6		001		5SY6513-7		1	1/6 units	001	0.309
	16		--			5SY6516-6		001		5SY6516-7		1	1/6 units	001	0.302
	20		--			5SY6520-6		001		5SY6520-7		1	1 unit	001	0.313
	25		--			5SY6525-6		001		5SY6525-7		1	1 unit	001	0.314
	32		--			5SY6532-6		001		5SY6532-7		1	1 unit	001	0.317
40		--			5SY6540-6		001		5SY6540-7		1	1 unit	001	0.317	
50		--			5SY6550-6		001		5SY6550-7		1	1 unit	001	0.323	
63		--			5SY6563-6		001		5SY6563-7		1	1 unit	001	0.344	
	2P, 400 V AC														
	0.3	2	--							5SY6214-7		1	1 unit	001	0.325
	0.5		--							5SY6205-7		1	1 unit	001	0.326
	1		--							5SY6201-7		1	1/6 units	001	0.313
	1.6		--							5SY6215-7		1	1 unit	001	0.316
	2		--							5SY6202-7		1	1/6 units	001	0.316
	3		--							5SY6203-7		1	1/6 units	001	0.305
	4		--							5SY6204-7		1	1/6 units	001	0.304
	5		NEW							5SY6211-7		1	1 unit	001	0.297
	6		--			5SY6206-6		001	▶	5SY6206-7		1	1/6 units	001	0.302
	8		--							5SY6208-7		1	1 unit	001	0.309
	10		--			5SY6210-6		001	▶	5SY6210-7		1	1/6 units	001	0.302
	13		--			5SY6213-6		001		5SY6213-7		1	1 unit	001	0.316
	15		NEW							5SY6218-7		1	1 unit	001	0.294
	16		--			5SY6216-6		001	▶	5SY6216-7		1	1/6 units	001	0.302
	20		--			5SY6220-6		001		5SY6220-7		1	1/6 units	001	0.310
25		--			5SY6225-6		001		5SY6225-7		1	1/6 units	001	0.309	
30		NEW							5SY6230-7		1	1 unit	001	0.300	
32		--			5SY6232-6		001		5SY6232-7		1	1/6 units	001	0.310	
40		--			5SY6240-6		001		5SY6240-7		1	1 unit	001	0.320	
50		--			5SY6250-6		001		5SY6250-7		1	1 unit	001	0.328	
63		--			5SY6263-6		001		5SY6263-7		1	1 unit	001	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 MW ¹⁾	DT	Characteristic B			Characteristic C			PU (UNIT, SET, M)	PS* P. unit	PG	Weight per PU approx. kg	
			A			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 6 000 A																
3P, 400 V AC																
	0.3	3	--							5SY6314-7		1	1 unit	001	0.483	
	0.5		--							5SY6305-7		1	1 unit	001	0.478	
	1		--							5SY6301-7		1	1 unit	001	0.472	
	1.6		--							5SY6315-7		1	1 unit	001	0.470	
	2		--							5SY6302-7		1	1/4 units	001	0.474	
	3		--							5SY6303-7		1	1 unit	001	0.463	
	4		--							5SY6304-7		1	1/4 units	001	0.464	
	5 NEW		--							5SY6311-7		1	1 unit	001	0.455	
	6		5SY6306-6			001	▶			5SY6306-7		1	1/4 units	001	0.453	
	8		--							5SY6308-7		1	1 unit	001	0.458	
	10		5SY6310-6			001	▶			5SY6310-7		1	1/4 units	001	0.458	
	13		5SY6313-6			001				5SY6313-7		1	1 unit	001	0.469	
	15 NEW		--							5SY6318-7		1	1 unit	001	0.461	
	16		5SY6316-6			▶			001	▶	5SY6316-7		1	1/4 units	001	0.452
	20		5SY6320-6						001		5SY6320-7		1	1/4 units	001	0.468
25		5SY6325-6						001		5SY6325-7		1	1/4 units	001	0.464	
30 NEW		--								5SY6330-7		1	1 unit	001	0.451	
32		5SY6332-6						001	▶	5SY6332-7		1	1/4 units	001	0.464	
40		5SY6340-6						001		5SY6340-7		1	1/4 units	001	0.470	
50		5SY6350-6						001		5SY6350-7		1	1/4 units	001	0.486	
63		5SY6363-6						001		5SY6363-7		1	1/4 units	001	0.499	
3P+N, 400 V AC																
	0.3	4	--							5SY6614-7		1	1 unit	001	0.631	
	0.5		--							5SY6605-7		1	1 unit	001	0.636	
	1		--							5SY6601-7		1	1 unit	001	0.635	
	1.6		--							5SY6615-7		1	1 unit	001	0.631	
	2		--							5SY6602-7		1	1 unit	001	0.642	
	3		--							5SY6603-7		1	1 unit	001	0.617	
	4		--							5SY6604-7		1	1 unit	001	0.616	
	6		5SY6606-6						001		5SY6606-7		1	1 unit	001	0.610
	8		--							5SY6608-7		1	1 unit	001	0.607	
	10		5SY6610-6						001		5SY6610-7		1	1 unit	001	0.608
	13		5SY6613-6						001		5SY6613-7		1	1/3 units	001	0.620
	16		5SY6616-6						001		5SY6616-7		1	1/3 units	001	0.612
	20		5SY6620-6						001		5SY6620-7		1	1 unit	001	0.621
	25		5SY6625-6						001		5SY6625-7		1	1 unit	001	0.623
	32		5SY6632-6						001		5SY6632-7		1	1 unit	001	0.627
40		5SY6640-6						001		5SY6640-7		1	1 unit	001	0.625	
50		5SY6650-6						001		5SY6650-7		1	1 unit	001	0.644	
63		5SY6663-6						001		5SY6663-7		1	1 unit	001	0.673	
4P, 400 V AC																
	0.3	4	--							5SY6414-7		1	1 unit	001	0.640	
	0.5		--							5SY6405-7		1	1 unit	001	0.644	
	1		--							5SY6401-7		1	1 unit	001	0.626	
	1.6		--							5SY6415-7		1	1 unit	001	0.621	
	2		--							5SY6402-7		1	1 unit	001	0.644	
	3		--							5SY6403-7		1	1 unit	001	0.623	
	4		--							5SY6404-7		1	1 unit	001	0.615	
	6		5SY6406-6						001		5SY6406-7		1	1 unit	001	0.606
	8		--							5SY6408-7		1	1 unit	001	0.608	
	10		5SY6410-6						001		5SY6410-7		1	1/3 units	001	0.604
	13		5SY6413-6						001		5SY6413-7		1	1 unit	001	0.624
	16		5SY6416-6						001		5SY6416-7		1	1/3 units	001	0.604
	20		5SY6420-6						001		5SY6420-7		1	1/3 units	001	0.618
	25		5SY6425-6						001		5SY6425-7		1	1/3 units	001	0.619
	32		5SY6432-6						001		5SY6432-7		1	1/3 units	001	0.622
40		5SY6440-6						001		5SY6440-7		1	1/3 units	001	0.627	
50		5SY6450-6						001		5SY6450-7		1	1 unit	001	0.646	
63		5SY6463-6						001		5SY6463-7		1	1/3 units	001	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 MW ¹⁾	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		002	--								
	1		5SY4101-5		002	--								
	1.6		5SY4115-5		002	--								
	2		5SY4102-5		002	5SY4102-6		1	1 unit	002			0.170	
	3		5SY4103-5		002	--								
	4		5SY4104-5		002	5SY4104-6		1	1 unit	002			0.149	
	6		5SY4106-5		002 ▶	5SY4106-6		1	1/12 units	002			0.147	
	8		5SY4108-5		002	--								
	10		5SY4110-5		002 ▶	5SY4110-6		1	1/12 units	002			0.151	
	13		5SY4113-5		002	5SY4113-6		1	1 unit	002			0.161	
	16		5SY4116-5		002 ▶	5SY4116-6		1	1/12 units	002			0.153	
	20		5SY4120-5		002	5SY4120-6		1	1 unit	002			0.165	
	25		5SY4125-5		002	5SY4125-6		1	1 unit	002			0.163	
	32		5SY4132-5		002	5SY4132-6		1	1 unit	002			0.166	
	40		5SY4140-5		002	5SY4140-6		1	1 unit	002			0.167	
50		5SY4150-5		002	5SY4150-6		1	1 unit	002			0.161		
63		5SY4163-5		002	5SY4163-6		1	1 unit	002			0.175		
80		--			5SY4180-6		1	1 unit	002			0.153		
	1P+N, 230 V AC													
	1	2	5SY4501-5		002	--								
	1.6		5SY4515-5		002	--								
	2		5SY4502-5		002	--								
	3		5SY4503-5		002	--								
	4		5SY4504-5		002	--								
	6		5SY4506-5		002	5SY4506-6		1	1 unit	002			0.313	
	8		5SY4508-5		002	--								
	10		5SY4510-5		002	5SY4510-6		1	1 unit	002			0.312	
	13		5SY4513-5		002	5SY4513-6		1	1/6 units	002			0.315	
	16		5SY4516-5		002	5SY4516-6		1	1/6 units	002			0.311	
	20		5SY4520-5		002	5SY4520-6		1	1 unit	002			0.294	
	25		5SY4525-5		002	5SY4525-6		1	1 unit	002			0.320	
32		5SY4532-5		002	5SY4532-6		1	1 unit	002			0.322		
40		5SY4540-5		002	5SY4540-6		1	1 unit	002			0.321		
50		5SY4550-5		002	5SY4550-6		1	1 unit	002			0.319		
63		5SY4563-5		002	5SY4563-6		1	1 unit	002			0.330		
	2P, 400 V AC													
	0.5	2	5SY4205-5		002	--								
	1		5SY4201-5		002	--								
	1.6		5SY4215-5		002	--								
	2		5SY4202-5		002	--								
	3		5SY4203-5		002	--								
	4		5SY4204-5		002	--								
	6		5SY4206-5		002	5SY4206-6		1	1 unit	002			0.313	
	8		5SY4208-5		002	--								
	10		5SY4210-5		002	5SY4210-6		1	1/6 units	002			0.295	
	13		5SY4213-5		002	5SY4213-6		1	1 unit	002			0.314	
	16		5SY4216-5		002	5SY4216-6		1	1/6 units	002			0.309	
	20		5SY4220-5		002	5SY4220-6		1	1 unit	002			0.318	
	25		5SY4225-5		002	5SY4225-6		1	1 unit	002			0.316	
	32		5SY4232-5		002	5SY4232-6		1	1 unit	002			0.342	
	40		5SY4240-5		002	5SY4240-6		1	1 unit	002			0.321	
50		5SY4250-5		002	5SY4250-6		1	1 unit	002			0.328		
63		5SY4263-5		002	5SY4263-6		1	1 unit	002			0.326		
80		--			5SY4280-6		1	1 unit	002			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 MW ¹⁾	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														
3P, 400 V AC														
		0.5	3		5SY4305-5		002	--						
		1			5SY4301-5		002	--						
		1.6			5SY4315-5		002	--						
		2			5SY4302-5		002	--						
		3			5SY4303-5		002	--						
		4			5SY4304-5		002	--						
		6			5SY4306-5		002	5SY4306-6		1	1 unit	002	0.467	
		8			5SY4308-5		002	--						
		10			5SY4310-5		002	5SY4310-6		1	1 unit	002	0.439	
		13			5SY4313-5		002	5SY4313-6		1	1 unit	002	0.471	
		16			5SY4316-5		002	5SY4316-6		1	1/4 units	002	0.461	
		20			5SY4320-5		002	5SY4320-6		1	1 unit	002	0.461	
		25			5SY4325-5		002	5SY4325-6		1	1 unit	002	0.469	
		32			5SY4332-5		002	5SY4332-6		1	1/4 units	002	0.473	
	40			5SY4340-5		002	5SY4340-6		1	1 unit	002	0.478		
	50			5SY4350-5		002	5SY4350-6		1	1 unit	002	0.493		
	63			5SY4363-5		002	5SY4363-6		1	1 unit	002	0.506		
	80			--		002	5SY4380-6		1	1 unit	002	0.508		
3P+N, 400 V AC														
		1	4		5SY4601-5		002	--						
		1.6			5SY4615-5		002	--						
		2			5SY4602-5		002	--						
		3			5SY4603-5		002	--						
		4			5SY4604-5		002	--						
		6			5SY4606-5		002	5SY4606-6		1	1 unit	002	0.617	
		8			5SY4608-5		002	--						
		10			5SY4610-5		002	5SY4610-6		1	1 unit	002	0.612	
		13			5SY4613-5		002	5SY4613-6		1	1 unit	002	0.596	
		16			5SY4616-5		002	5SY4616-6		1	1 unit	002	0.614	
		20			5SY4620-5		002	5SY4620-6		1	1 unit	002	0.612	
		25			5SY4625-5		002	5SY4625-6		1	1 unit	002	0.624	
		32			5SY4632-5		002	5SY4632-6		1	1 unit	002	0.634	
		40			5SY4640-5		002	5SY4640-6		1	1 unit	002	0.616	
	50			5SY4650-5		002	5SY4650-6		1	1 unit	002	0.667		
	63			5SY4663-5		002	5SY4663-6		1	1 unit	002	0.673		
4P, 400 V AC														
		1	4		5SY4401-5		002	--						
		1.6			5SY4415-5		002	--						
		2			5SY4402-5		002	--						
		3			5SY4403-5		002	--						
		4			5SY4404-5		002	--						
		6			5SY4406-5		002	5SY4406-6		1	1 unit	002	0.595	
		8			5SY4408-5		002	--						
		10			5SY4410-5		002	5SY4410-6		1	1 unit	002	0.611	
		13			5SY4413-5		002	5SY4413-6		1	1 unit	002	0.650	
		16			5SY4416-5		002	5SY4416-6		1	1 unit	002	0.621	
		20			5SY4420-5		002	5SY4420-6		1	1 unit	002	0.610	
		25			5SY4425-5		002	5SY4425-6		1	1 unit	002	0.622	
		32			5SY4432-5		002	5SY4432-6		1	1 unit	002	0.632	
		40			5SY4440-5		002	5SY4440-6		1	1 unit	002	0.627	
	50			5SY4450-5		002	5SY4450-6		1	1 unit	002	0.650		
	63			5SY4463-5		002	5SY4463-6		1	1 unit	002	0.660		
	80			--		002	5SY4480-6		1	1 unit	002	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 MW ¹⁾	DT	Characteristic C		PG	DT	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			Article No. www.siemens.com/ product?Article No.	Price per PU				
Miniature circuit breakers 10000 A														
	1P, 230/400 V AC													
	0.3	1	5SY4114-7		002	5SY4114-8			1	1 unit	002	0.173		
	0.5		5SY4105-7		002	5SY4105-8			1	1 unit	002	0.171		
	1		5SY4101-7		002	5SY4101-8			1	1 unit	002	0.165		
	1.6		5SY4115-7		002	5SY4115-8			1	1 unit	002	0.164		
	2		5SY4102-7	▶	002	5SY4102-8			1	1/12 units	002	0.151		
	3		5SY4103-7		002	5SY4103-8			1	1 unit	002	0.165		
	4		5SY4104-7	▶	002	5SY4104-8			1	1/12 units	002	0.147		
	5		5SY4111-7		002	--								
	6		5SY4106-7	▶	002	5SY4106-8			1	1 unit	002	0.161		
	8		5SY4108-7		002	5SY4108-8			1	1 unit	002	0.155		
	10		5SY4110-7	▶	002	5SY4110-8			1	1/12 units	002	0.147		
	13		5SY4113-7		002	5SY4113-8			1	1 unit	002	0.157		
	15		5SY4118-7		002	--								
	16		5SY4116-7	▶	002	5SY4116-8			1	1 unit	002	0.157		
	20		5SY4120-7		002	5SY4120-8			1	1 unit	002	0.162		
	25		5SY4125-7		002	5SY4125-8			1	1 unit	002	0.160		
	30		5SY4130-7		002	--								
	32		5SY4132-7		002	5SY4132-8			1	1 unit	002	0.167		
	35		5SY4135-7		002	--								
40		5SY4140-7		002	5SY4140-8			1	1 unit	002	0.174			
45		5SY4145-7		002	--									
50		5SY4150-7		002	5SY4150-8			1	1 unit	002	0.164			
60		5SY4160-7		002	--									
63		5SY4163-7		002	5SY4163-8			1	1 unit	002	0.154			
80		5SY4180-7		002	--									
	1P+N, 230 V AC													
	0.3	2	5SY4514-7		002	5SY4514-8			1	1 unit	002	0.324		
	0.5		5SY4505-7		002	5SY4505-8			1	1 unit	002	0.340		
	1		5SY4501-7		002	5SY4501-8			1	1 unit	002	0.320		
	1.6		5SY4515-7		002	5SY4515-8			1	1 unit	002	0.321		
	2		5SY4502-7		002	5SY4502-8			1	1 unit	002	0.317		
	3		5SY4503-7		002	5SY4503-8			1	1 unit	002	0.312		
	4		5SY4504-7		002	5SY4504-8			1	1 unit	002	0.308		
	6		5SY4506-7		002	5SY4506-8			1	1 unit	002	0.289		
	8		5SY4508-7		002	5SY4508-8			1	1 unit	002	0.307		
	10		5SY4510-7		002	5SY4510-8			1	1 unit	002	0.301		
	13		5SY4513-7		002	5SY4513-8			1	1 unit	002	0.301		
	16		5SY4516-7		002	5SY4516-8			1	1 unit	002	0.298		
	20		5SY4520-7		002	5SY4520-8			1	1 unit	002	0.317		
	25		5SY4525-7		002	5SY4525-8			1	1 unit	002	0.313		
	32		5SY4532-7		002	5SY4532-8			1	1 unit	002	0.323		
40		5SY4540-7		002	5SY4540-8			1	1 unit	002	0.326			
50		5SY4550-7		002	5SY4550-8			1	1 unit	002	0.322			
63		5SY4563-7		002	5SY4563-8			1	1 unit	002	0.324			
80		5SY4580-7		002	--									
	2P, 400 V AC													
	0.3	2	5SY4214-7		002	5SY4214-8			1	1 unit	002	0.322		
	0.5		5SY4205-7		002	5SY4205-8			1	1 unit	002	0.326		
	1		5SY4201-7		002	5SY4201-8			1	1 unit	002	0.339		
	1.6		5SY4215-7		002	5SY4215-8			1	1 unit	002	0.321		
	2		5SY4202-7	▶	002	5SY4202-8			1	1 unit	002	0.319		
	3		5SY4203-7		002	5SY4203-8			1	1 unit	002	0.317		
	4		5SY4204-7		002	5SY4204-8			1	1 unit	002	0.289		
	5		5SY4211-7		002	--								
	6		5SY4206-7	▶	002	5SY4206-8			1	1 unit	002	0.310		
	8		5SY4208-7		002	5SY4208-8			1	1 unit	002	0.303		
	10		5SY4210-7	▶	002	5SY4210-8			1	1 unit	002	0.299		
	13		5SY4213-7		002	5SY4213-8			1	1 unit	002	0.307		
	15		5SY4218-7		002	--								
	16		5SY4216-7	▶	002	5SY4216-8			1	1 unit	002	0.303		
	20		5SY4220-7		002	5SY4220-8			1	1 unit	002	0.321		
	25		5SY4225-7		002	5SY4225-8			1	1 unit	002	0.323		
	30		5SY4230-7		002	--								
32		5SY4232-7		002	5SY4232-8			1	1 unit	002	0.330			
35		5SY4235-7		002	--									
40		5SY4240-7		002	5SY4240-8			1	1 unit	002	0.327			
45		5SY4245-7		002	--									
50		5SY4250-7		002	5SY4250-8			1	1 unit	002	0.328			
60		5SY4260-7		002	--									
63		5SY4263-7		002	5SY4263-8			1	1 unit	002	0.325			
80		5SY4280-7		002	--									

* 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	Price per PU	PG	DT	Characteristic D	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.				Article No. www.siemens.com/ product?Article.No.					kg

Miniature circuit breakers 10000 A



3P, 400 V AC

0.3	3		5SY4314-7		002		5SY4314-8		1	1 unit	002	0.481
0.5			5SY4305-7		002		5SY4305-8		1	1 unit	002	0.484
1			5SY4301-7		002		5SY4301-8		1	1 unit	002	0.454
1.6			5SY4315-7		002		5SY4315-8		1	1 unit	002	0.474
2			5SY4302-7		002		5SY4302-8		1	1 unit	002	0.449
3			5SY4303-7		002		5SY4303-8		1	1 unit	002	0.467
4			5SY4304-7		002		5SY4304-8		1	1 unit	002	0.437
5			5SY4311-7		002		--					
6			5SY4306-7		002		5SY4306-8		1	1 unit	002	0.465
8			5SY4308-7		002		5SY4308-8		1	1 unit	002	0.443
10		▶	5SY4310-7		002		5SY4310-8		1	1 unit	002	0.449
13			5SY4313-7		002		5SY4313-8		1	1 unit	002	0.450
15			5SY4318-7		002		--					
16		▶	5SY4316-7		002		5SY4316-8		1	1/4 units	002	0.449
20			5SY4320-7		002		5SY4320-8		1	1 unit	002	0.469
25			5SY4325-7		002		5SY4325-8		1	1 unit	002	0.467
30			5SY4330-7		002		--					
32		▶	5SY4332-7		002		5SY4332-8		1	1 unit	002	0.478
35			5SY4335-7		002		--					
40			5SY4340-7		002		5SY4340-8		1	1 unit	002	0.482
45			5SY4345-7		002		--					
50			5SY4350-7		002		5SY4350-8		1	1 unit	002	0.480
60			5SY4360-7		002		--					
63			5SY4363-7		002		5SY4363-8		1	1 unit	002	0.484
80			5SY4380-7		002		--					



3P+N, 400 V AC

0.3	4		5SY4614-7		002		5SY4614-8		1	1 unit	002	0.634
0.5			5SY4605-7		002		5SY4605-8		1	1 unit	002	0.660
1			5SY4601-7		002		5SY4601-8		1	1 unit	002	0.636
1.6			5SY4615-7		002		5SY4615-8		1	1 unit	002	0.621
2			5SY4602-7		002		5SY4602-8		1	1 unit	002	0.608
3			5SY4603-7		002		5SY4603-8		1	1 unit	002	0.619
4			5SY4604-7		002		5SY4604-8		1	1 unit	002	0.587
6			5SY4606-7		002		5SY4606-8		1	1 unit	002	0.617
8			5SY4608-7		002		5SY4608-8		1	1 unit	002	0.595
10			5SY4610-7		002		5SY4610-8		1	1 unit	002	0.599
13			5SY4613-7		002		5SY4613-8		1	1 unit	002	0.600
16			5SY4616-7		002		5SY4616-8		1	1 unit	002	0.597
20			5SY4620-7		002		5SY4620-8		1	1 unit	002	0.622
25			5SY4625-7		002		5SY4625-8		1	1 unit	002	0.629
32			5SY4632-7		002		5SY4632-8		1	1 unit	002	0.642
40			5SY4640-7		002		5SY4640-8		1	1 unit	002	0.645
50			5SY4650-7		002		5SY4650-8		1	1 unit	002	0.623
63			5SY4663-7		002		5SY4663-8		1	1 unit	002	0.661
80			5SY4680-7		002		--					



4P, 400 V AC

0.3	4		5SY4414-7		002		5SY4414-8		1	1 unit	002	0.632
0.5			5SY4405-7		002		5SY4405-8		1	1 unit	002	0.633
1			5SY4401-7		002		5SY4401-8		1	1 unit	002	0.632
1.6			5SY4415-7		002		5SY4415-8		1	1 unit	002	0.623
2			5SY4402-7		002		5SY4402-8		1	1 unit	002	0.631
3			5SY4403-7		002		5SY4403-8		1	1 unit	002	0.660
4			5SY4404-7		002		5SY4404-8		1	1 unit	002	0.610
6			5SY4406-7		002		5SY4406-8		1	1 unit	002	0.605
8			5SY4408-7		002		5SY4408-8		1	1 unit	002	0.594
10			5SY4410-7		002		5SY4410-8		1	1 unit	002	0.601
13			5SY4413-7		002		5SY4413-8		1	1 unit	002	0.598
16			5SY4416-7		002		5SY4416-8		1	1 unit	002	0.598
20			5SY4420-7		002		5SY4420-8		1	1 unit	002	0.627
25			5SY4425-7		002		5SY4425-8		1	1 unit	002	0.620
32			5SY4432-7		002		5SY4432-8		1	1 unit	002	0.612
40			5SY4440-7		002		5SY4440-8		1	1 unit	002	0.634
50			5SY4450-7		002		5SY4450-8		1	1 unit	002	0.637
63			5SY4463-7		002		5SY4463-8		1	1 unit	002	0.647
80			5SY4480-7		002		--					




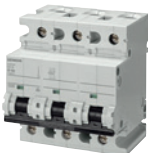

¹⁾ 1 MW (modular width) = 18 mm.




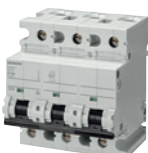

Miniature Circuit Breakers

5SY and 5SP Miniature Circuit Breakers

5SP4, high-current, 10000 A

Selection and ordering data

10000		I_n	Mounting width	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 10000 A, high-current										
		1P, 230/400 V AC								
		80	1.5		5SP4180-6		1	1 unit	002	0.271
		100			5SP4191-6		1	1 unit	002	0.269
		125			5SP4192-6		1	1 unit	002	0.248
		2P, 400 V AC								
		80	3		5SP4280-6		1	1 unit	002	0.533
		100			5SP4291-6		1	1 unit	002	0.529
		125			5SP4292-6		1	1 unit	002	0.516
		3P, 400 V AC								
		80	4.5		5SP4380-6		1	1 unit	002	0.785
		100			5SP4391-6		1	1 unit	002	0.789
		125			5SP4392-6		1	1 unit	002	0.795
		4P, 400 V AC								
		80	6		5SP4480-6		1	1 unit	002	1.032
		100			5SP4491-6		1	1 unit	002	1.034
		125			5SP4492-6		1	1 unit	002	1.066

10000		I_n	Mounting width	DT	Characteristic C	Price per PU	PG	DT	Characteristic D	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.				Article No. www.siemens.com/product?Article No.					kg
Miniature circuit breakers 10000 A, high-current														
		1P, 230/400 V AC												
		80	1.5		5SP4180-7		002		5SP4180-8		1	1 unit	002	0.247
		100			5SP4191-7		002		5SP4191-8		1	1 unit	002	0.266
		125			5SP4192-7		002		--					
		2P, 400 V AC												
		80	3		5SP4280-7		002		5SP4280-8		1	1 unit	002	0.526
		100			5SP4291-7		002		5SP4291-8		1	1 unit	002	0.513
		125			5SP4292-7		002		--					
		3P, 400 V AC												
		80	4.5	▶	5SP4380-7		002		5SP4380-8		1	1 unit	002	0.772
		100		▶	5SP4391-7		002		5SP4391-8		1	1 unit	002	0.771
		125			5SP4392-7		002		--					
		4P, 400 V AC												
		80	6		5SP4480-7		002		5SP4480-8		1	1 unit	002	1.051
		100			5SP4491-7		002		5SP4491-8		1	1 unit	002	1.030
		125			5SP4492-7		002		--					




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 MW ¹⁾	DT	Characteristic B			Characteristic C				
				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
Miniature circuit breakers 10000 A, universal current											
	1P, 230/400 V AC, 220 V DC										
	0.3	1	--				5SY5114-7	1	1 unit	002	0.174
	0.5		--				5SY5105-7	1	1 unit	002	0.153
	1		--				5SY5101-7	1	1 unit	002	0.169
	1.6		--				5SY5115-7	1	1 unit	002	0.172
	2		5SY5102-6		002		5SY5102-7	1	1 unit	002	0.173
	3		--				5SY5103-7	1	1 unit	002	0.162
	4		5SY5104-6		002		5SY5104-7	1	1 unit	002	0.164
	6		5SY5106-6		002		5SY5106-7	1	1 unit	002	0.166
	8		--				5SY5108-7	1	1 unit	002	0.168
	10		5SY5110-6		002		5SY5110-7	1	1 unit	002	0.171
	13		5SY5113-6		002		5SY5113-7	1	1 unit	002	0.169
	16		5SY5116-6		002		5SY5116-7	1	1 unit	002	0.144
	20		5SY5120-6		002		5SY5120-7	1	1 unit	002	0.167
	25		5SY5125-6		002		5SY5125-7	1	1 unit	002	0.177
	32		5SY5132-6		002		5SY5132-7	1	1 unit	002	0.145
	40		5SY5140-6		002		5SY5140-7	1	1 unit	002	0.164
50		5SY5150-6		002		5SY5150-7	1	1 unit	002	0.172	
63		5SY5163-6		002		5SY5163-7	1	1 unit	002	0.176	
	2P, 400 V AC, 440 V DC										
	0.3	2	--				5SY5214-7	1	1 unit	002	0.330
	0.5		--				5SY5205-7	1	1 unit	002	0.324
	1		--				5SY5201-7	1	1 unit	002	0.312
	1.6		--				5SY5215-7	1	1 unit	002	0.321
	2		--				5SY5202-7	1	1 unit	002	0.328
	3		--				5SY5203-7	1	1 unit	002	0.318
	4		--				5SY5204-7	1	1 unit	002	0.319
	6		5SY5206-6		002 ▶		5SY5206-7	1	1/6 units	002	0.309
	8		--				5SY5208-7	1	1 unit	002	0.316
	10		5SY5210-6		002		5SY5210-7	1	1 unit	002	0.315
	13		5SY5213-6		002		5SY5213-7	1	1 unit	002	0.321
	16		5SY5216-6		002		5SY5216-7	1	1 unit	002	0.314
	20		5SY5220-6		002		5SY5220-7	1	1 unit	002	0.324
	25		5SY5225-6		002		5SY5225-7	1	1 unit	002	0.300
	32		5SY5232-6		002		5SY5232-7	1	1 unit	002	0.323
	40		5SY5240-6		002		5SY5240-7	1	1 unit	002	0.322
50		5SY5250-6		002		5SY5250-7	1	1 unit	002	0.337	
63		5SY5263-6		002		5SY5263-7	1	1 unit	002	0.348	



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	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, universal current															
															
4P, 400 V AC, 880 V DC (max. 1000 V DC)															
	0.3			1		--				5SY5414-7		1	1 unit	002	0.653
	0.5					--				5SY5405-7		1	1 unit	002	0.646
	1					--				5SY5401-7		1	1 unit	002	0.634
	1.6					--				5SY5415-7		1	1 unit	002	0.625
	2					--				5SY5402-7		1	1 unit	002	0.648
	3					--				5SY5403-7		1	1 unit	002	0.625
	4					--				5SY5404-7		1	1 unit	002	0.623
	6					5SY5406-6		002		5SY5406-7		1	1 unit	002	0.625
	8					--				5SY5408-7		1	1 unit	002	0.614
	10					5SY5410-6		002		5SY5410-7		1	1 unit	002	0.617
	13					5SY5413-6		002		5SY5413-7		1	1 unit	002	0.632
	16					5SY5416-6		002		5SY5416-7		1	1 unit	002	0.610
	20					5SY5420-6		002		5SY5420-7		1	1 unit	002	0.598
	25					5SY5425-6		002		5SY5425-7		1	1 unit	002	0.636
	32					5SY5432-6		002		5SY5432-7		1	1 unit	002	0.629
	40					5SY5440-6		002		5SY5440-7		1	1 unit	002	0.609
	50					5SY5450-6		002		5SY5450-7		1	1 unit	002	0.651
	63					5SY5463-6		002		5SY5463-7		1	1 unit	002	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 MW ¹⁾	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. kg
Miniature circuit breakers 15000 A										
	1P, 230/400 V AC									
	6	1			5SY7106-6		1	1 unit	003	0.165
	10				5SY7110-6		1	1 unit	003	0.163
	13				5SY7113-6		1	1 unit	003	0.162
	16				5SY7116-6		1	1 unit	003	0.162
	20				5SY7120-6		1	1 unit	003	0.161
	25				5SY7125-6		1	1 unit	003	0.163
	32				5SY7132-6		1	1 unit	003	0.165
	40				5SY7140-6		1	1 unit	003	0.212
	50				5SY7150-6		1	1 unit	003	0.170
63				5SY7163-6		1	1 unit	003	0.165	
	1P+N, 230 V AC									
	6	2			5SY7506-6		1	1 unit	003	0.314
	10				5SY7510-6		1	1 unit	003	0.313
	13				5SY7513-6		1	1 unit	003	0.318
	16				5SY7516-6		1	1 unit	003	0.333
	20				5SY7520-6		1	1 unit	003	0.311
	25				5SY7525-6		1	1 unit	003	0.309
	32				5SY7532-6		1	1 unit	003	0.321
	40				5SY7540-6		1	1 unit	003	0.330
	50				5SY7550-6		1	1 unit	003	0.330
63				5SY7563-6		1	1 unit	003	0.340	
	2P, 400 V AC									
	6	2			5SY7206-6		1	1 unit	003	0.314
	10				5SY7210-6		1	1 unit	003	0.291
	13				5SY7213-6		1	1 unit	003	0.296
	16				5SY7216-6		1	1 unit	003	0.317
	20				5SY7220-6		1	1 unit	003	0.291
	25				5SY7225-6		1	1 unit	003	0.334
	32				5SY7232-6		1	1 unit	003	0.344
	40				5SY7240-6		1	1 unit	003	0.324
	50				5SY7250-6		1	1 unit	003	0.328
63				5SY7263-6		1	1 unit	003	0.330	
	3P, 400 V AC									
	6	3			5SY7306-6		1	1 unit	003	0.463
	10				5SY7310-6		1	1 unit	003	0.458
	13				5SY7313-6		1	1 unit	003	0.449
	16				5SY7316-6		1	1 unit	003	0.462
	20				5SY7320-6		1	1 unit	003	0.460
	25				5SY7325-6		1	1 unit	003	0.474
	32				5SY7332-6		1	1 unit	003	0.476
	40				5SY7340-6		1	1 unit	003	0.474
	50				5SY7350-6		1	1 unit	003	0.509
63				5SY7363-6		1	1 unit	003	0.485	
	3P+N, 400 V AC									
	6	4			5SY7606-6		1	1 unit	003	0.632
	10				5SY7610-6		1	1 unit	003	0.591
	13				5SY7613-6		1	1 unit	003	0.622
	16				5SY7616-6		1	1 unit	003	0.624
	20				5SY7620-6		1	1 unit	003	0.614
	25				5SY7625-6		1	1 unit	003	0.617
	32				5SY7632-6		1	1 unit	003	0.634
	40				5SY7640-6		1	1 unit	003	0.637
	50				5SY7650-6		1	1 unit	003	0.648
63				5SY7663-6		1	1 unit	003	0.660	
	4P, 400 V AC									
	6	4			5SY7406-6		1	1 unit	003	0.621
	10				5SY7410-6		1	1 unit	003	0.610
	13				5SY7413-6		1	1 unit	003	0.633
	16				5SY7416-6		1	1 unit	003	0.601
	20				5SY7420-6		1	1 unit	003	0.613
	25				5SY7425-6		1	1 unit	003	0.630
	32				5SY7432-6		1	1 unit	003	0.652
	40				5SY7440-6		1	1 unit	003	0.611
	50				5SY7450-6		1	1 unit	003	0.647
63				5SY7463-6		1	1 unit	003	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 A	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
Miniature circuit breakers 15000 A												
	1P, 230/400 V AC											
	0.3	1	5SY7114-7	003	5SY7114-8	1	1 unit	003	0.160			
	0.5		5SY7105-7	003	5SY7105-8	1	1 unit	003	0.153			
	1		5SY7101-7	003	5SY7101-8	1	1 unit	003	0.164			
	1.6		5SY7115-7	003	5SY7115-8	1	1 unit	003	0.163			
	2		5SY7102-7	003	5SY7102-8	1	1 unit	003	0.162			
	3		5SY7103-7	003	5SY7103-8	1	1 unit	003	0.161			
	4		5SY7104-7	003	5SY7104-8	1	1 unit	003	0.159			
	6		5SY7106-7	003	5SY7106-8	1	1 unit	003	0.160			
	8		5SY7108-7	003	5SY7108-8	1	1 unit	003	0.154			
	10		5SY7110-7	003	5SY7110-8	1	1 unit	003	0.157			
	13		5SY7113-7	003	5SY7113-8	1	1 unit	003	0.159			
	16		5SY7116-7	003	5SY7116-8	1	1 unit	003	0.156			
	20		5SY7120-7	003	5SY7120-8	1	1 unit	003	0.165			
	25		5SY7125-7	003	5SY7125-8	1	1 unit	003	0.163			
	32		5SY7132-7	003	5SY7132-8	1	1 unit	003	0.165			
	40		5SY7140-7	003	5SY7140-8	1	1 unit	003	0.166			
50		5SY7150-7	003	5SY7150-8	1	1 unit	003	0.165				
63		5SY7163-7	003	5SY7163-8	1	1 unit	003	0.165				
	1P+N, 230 V AC											
	0.3	2	5SY7514-7	003	5SY7514-8	1	1 unit	003	0.323			
	0.5		5SY7505-7	003	5SY7505-8	1	1 unit	003	0.312			
	1		5SY7501-7	003	5SY7501-8	1	1 unit	003	0.320			
	1.6		5SY7515-7	003	5SY7515-8	1	1 unit	003	0.319			
	2		5SY7502-7	003	5SY7502-8	1	1 unit	003	0.319			
	3		5SY7503-7	003	5SY7503-8	1	1 unit	003	0.298			
	4		5SY7504-7	003	5SY7504-8	1	1 unit	003	0.308			
	6		5SY7506-7	003	5SY7506-8	1	1 unit	003	0.310			
	8		5SY7508-7	003	5SY7508-8	1	1 unit	003	0.286			
	10		5SY7510-7	003	5SY7510-8	1	1 unit	003	0.294			
	13		5SY7513-7	003	5SY7513-8	1	1 unit	003	0.304			
	16		5SY7516-7	003	5SY7516-8	1	1 unit	003	0.307			
20		5SY7520-7	003	5SY7520-8	1	1 unit	003	0.320				
25		5SY7525-7	003	5SY7525-8	1	1 unit	003	0.313				
32		5SY7532-7	003	5SY7532-8	1	1 unit	003	0.326				
40		5SY7540-7	003	5SY7540-8	1	1 unit	003	0.308				
50		5SY7550-7	003	5SY7550-8	1	1 unit	003	0.323				
63		5SY7563-7	003	5SY7563-8	1	1 unit	003	0.308				
	2P, 400 V AC											
	0.3	2	5SY7214-7	003	5SY7214-8	1	1 unit	003	0.322			
	0.5		5SY7205-7	003	5SY7205-8	1	1 unit	003	0.325			
	1		5SY7201-7	003	5SY7201-8	1	1 unit	003	0.321			
	1.6		5SY7215-7	003	5SY7215-8	1	1 unit	003	0.330			
	2		5SY7202-7	003	5SY7202-8	1	1 unit	003	0.293			
	3		5SY7203-7	003	5SY7203-8	1	1 unit	003	0.318			
	4		5SY7204-7	003	5SY7204-8	1	1 unit	003	0.286			
	6		5SY7206-7	003	5SY7206-8	1	1 unit	003	0.313			
	8		5SY7208-7	003	5SY7208-8	1	1 unit	003	0.302			
	10		5SY7210-7	003	5SY7210-8	1	1 unit	003	0.305			
	13		5SY7213-7	003	5SY7213-8	1	1 unit	003	0.320			
	16		5SY7216-7	003	5SY7216-8	1	1 unit	003	0.298			
20		5SY7220-7	003	5SY7220-8	1	1 unit	003	0.293				
25		5SY7225-7	003	5SY7225-8	1	1 unit	003	0.318				
32		5SY7232-7	003	5SY7232-8	1	1 unit	003	0.309				
40		5SY7240-7	003	5SY7240-8	1	1 unit	003	0.330				
50		5SY7250-7	003	5SY7250-8	1	1 unit	003	0.308				
63		5SY7263-7	003	5SY7263-8	1	1 unit	003	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 MW ¹⁾	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 15000 A													
3P, 400 V AC													
		0.3	3		5SY7314-7		003	5SY7314-8		1	1 unit	003	0.473
		0.5		5SY7305-7		003	5SY7305-8		1	1 unit	003	0.480	
		1		5SY7301-7		003	5SY7301-8		1	1 unit	003	0.458	
		1.6		5SY7315-7		003	5SY7315-8		1	1 unit	003	0.470	
		2		5SY7302-7		003	5SY7302-8		1	1 unit	003	0.451	
		3		5SY7303-7		003	5SY7303-8		1	1 unit	003	0.460	
		4		5SY7104-7		003	5SY7304-8		1	1 unit	003	0.452	
		6		5SY7306-7		003	5SY7306-8		1	1 unit	003	0.470	
		8		5SY7308-7		003	5SY7308-8		1	1 unit	003	0.457	
		10		5SY7310-7		003	5SY7310-8		1	1 unit	003	0.450	
		13		5SY7313-7		003	5SY7313-8		1	1 unit	003	0.445	
		16		5SY7316-7		003	5SY7316-8		1	1 unit	003	0.451	
		20		5SY7320-7		003	5SY7320-8		1	1 unit	003	0.473	
		25		5SY7325-7		003	5SY7325-8		1	1 unit	003	0.469	
		32		5SY7332-7		003	5SY7332-8		1	1 unit	003	0.480	
		40		5SY7340-7		003	5SY7340-8		1	1 unit	003	0.478	
	50	5SY7350-7		003	5SY7350-8		1	1 unit	003	0.484			
	63	5SY7363-7		003	5SY7363-8		1	1 unit	003	0.492			
3P+N, 400 V AC													
		0.3	4		5SY7614-7		003	5SY7614-8		1	1 unit	003	0.660
		0.5		5SY7605-7		003	5SY7605-8		1	1 unit	003	0.660	
		1		5SY7601-7		003	5SY7601-8		1	1 unit	003	0.660	
		1.6		5SY7615-7		003	5SY7615-8		1	1 unit	003	0.660	
		2		5SY7602-7		003	5SY7602-8		1	1 unit	003	0.632	
		3		5SY7603-7		003	5SY7603-8		1	1 unit	003	0.660	
		4		5SY7604-7		003	5SY7604-8		1	1 unit	003	0.608	
		6		5SY7606-7		003	5SY7606-8		1	1 unit	003	0.590	
		8		5SY7608-7		003	5SY7608-8		1	1 unit	003	0.600	
		10		5SY7610-7		003	5SY7610-8		1	1 unit	003	0.593	
		13		5SY7613-7		003	5SY7613-8		1	1 unit	003	0.599	
		16		5SY7616-7		003	5SY7616-8		1	1 unit	003	0.585	
		20		5SY7620-7		003	5SY7620-8		1	1 unit	003	0.617	
		25		5SY7625-7		003	5SY7625-8		1	1 unit	003	0.621	
		32		5SY7632-7		003	5SY7632-8		1	1 unit	003	0.634	
		40		5SY7640-7		003	5SY7640-8		1	1 unit	003	0.645	
	50	5SY7650-7		003	5SY7650-8		1	1 unit	003	0.660			
	63	5SY7663-7		003	5SY7663-8		1	1 unit	003	0.643			
4P, 400 V AC													
		0.3	4		5SY7414-7		003	5SY7414-8		1	1 unit	003	0.642
		0.5		5SY7405-7		003	5SY7405-8		1	1 unit	003	0.655	
		1		5SY7401-7		003	5SY7401-8		1	1 unit	003	0.634	
		1.6		5SY7415-7		003	5SY7415-8		1	1 unit	003	0.660	
		2		5SY7402-7		003	5SY7402-8		1	1 unit	003	0.630	
		3		5SY7403-7		003	5SY7403-8		1	1 unit	003	0.616	
		4		5SY7404-7		003	5SY7404-8		1	1 unit	003	0.624	
		6		5SY7406-7		003	5SY7406-8		1	1 unit	003	0.615	
		8		5SY7408-7		003	5SY7408-8		1	1 unit	003	0.603	
		10		5SY7410-7		003	5SY7410-8		1	1 unit	003	0.602	
		13		5SY7413-7		003	5SY7413-8		1	1 unit	003	0.608	
		16		5SY7416-7		003	5SY7416-8		1	1 unit	003	0.582	
		20		5SY7420-7		003	5SY7420-8		1	1 unit	003	0.624	
		25		5SY7425-7		003	5SY7425-8		1	1 unit	003	0.594	
		32		5SY7432-7		003	5SY7432-8		1	1 unit	003	0.638	
		40		5SY7440-7		003	5SY7440-8		1	1 unit	003	0.633	
	50	5SY7450-7		003	5SY7450-8		1	1 unit	003	0.658			
	63	5SY7463-7		003	5SY7463-8		1	1 unit	003	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 MW ¹⁾	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 DT				
Miniature circuit breakers 25000 A											
1P, 230/400 V AC											
0.3	1	5SY8114-7		003	5SY8114-8		1	1 unit	003	0.165	
0.5		5SY8105-7		003	5SY8105-8		1	1 unit	003	0.165	
1		5SY8101-7		003	5SY8101-8		1	1 unit	003	0.172	
1.6		5SY8115-7		003	5SY8115-8		1	1 unit	003	0.162	
2		5SY8102-7		003	5SY8102-8		1	1 unit	003	0.162	
3		5SY8103-7		003	5SY8103-8		1	1 unit	003	0.161	
4		5SY8104-7		003	5SY8104-8		1	1 unit	003	0.158	
6		5SY8106-7		003	5SY8106-8		1	1 unit	003	0.158	
8		5SY8108-7		003	5SY8108-8		1	1 unit	003	0.156	
10		5SY8110-7		003	5SY8110-8		1	1 unit	003	0.157	
13		5SY8113-7		003	5SY8113-8		1	1 unit	003	0.154	
16		5SY8116-7		003	5SY8116-8		1	1 unit	003	0.147	
20		5SY8120-7		003	5SY8120-8		1	1 unit	003	0.165	
25		5SY8125-7		003	5SY8125-8		1	1 unit	003	0.162	
32		5SY8132-7		003	5SY8132-8		1	1 unit	003	0.165	
40		5SY8140-7		003	5SY8140-8		1	1 unit	003	0.155	
50		5SY8150-7		003	5SY8150-8		1	1 unit	003	0.158	
63		5SY8163-7		003	5SY8163-8		1	1 unit	003	0.160	
1P+N, 230 V AC											
0.3	2	5SY8514-7		003	5SY8514-8		1	1 unit	003	0.322	
0.5		5SY8505-7		003	5SY8505-8		1	1 unit	003	0.323	
1		5SY8501-7		003	5SY8501-8		1	1 unit	003	0.330	
1.6		5SY8515-7		003	5SY8515-8		1	1 unit	003	0.324	
2		5SY8502-7		003	5SY8502-8		1	1 unit	003	0.317	
3		5SY8503-7		003	5SY8503-8		1	1 unit	003	0.318	
4		5SY8504-7		003	5SY8504-8		1	1 unit	003	0.307	
6		5SY8506-7		003	5SY8506-8		1	1 unit	003	0.319	
8		5SY8508-7		003	5SY8508-8		1	1 unit	003	0.313	
10		5SY8510-7		003	5SY8510-8		1	1 unit	003	0.320	
13		5SY8513-7		003	5SY8513-8		1	1 unit	003	0.305	
16		5SY8516-7		003	5SY8516-8		1	1 unit	003	0.297	
20		5SY8520-7		003	5SY8520-8		1	1 unit	003	0.313	
25		5SY8525-7		003	5SY8525-8		1	1 unit	003	0.312	
32		5SY8532-7		003	5SY8532-8		1	1 unit	003	0.366	
40		5SY8540-7		003	5SY8540-8		1	1 unit	003	0.325	
50		5SY8550-7		003	5SY8550-8		1	1 unit	003	0.326	
63		5SY8563-7		003	5SY8563-8		1	1 unit	003	0.336	
2P, 400 V AC											
0.3	2	5SY8214-7		003	5SY8214-8		1	1 unit	003	0.330	
0.5		5SY8205-7		003	5SY8205-8		1	1 unit	003	0.325	
1		5SY8201-7		003	5SY8201-8		1	1 unit	003	0.313	
1.6		5SY8215-7		003	5SY8215-8		1	1 unit	003	0.316	
2		5SY8202-7		003	5SY8202-8		1	1 unit	003	0.318	
3		5SY8203-7		003	5SY8203-8		1	1 unit	003	0.346	
4		5SY8204-7		003	5SY8204-8		1	1 unit	003	0.310	
6		5SY8206-7		003	5SY8206-8		1	1 unit	003	0.309	
8		5SY8208-7		003	5SY8208-8		1	1 unit	003	0.306	
10		5SY8210-7		003	5SY8210-8		1	1 unit	003	0.301	
13		5SY8213-7		003	5SY8213-8		1	1 unit	003	0.305	
16		5SY8216-7		003	5SY8216-8		1	1 unit	003	0.304	
20		5SY8220-7		003	5SY8220-8		1	1 unit	003	0.305	
25		5SY8225-7		003	5SY8225-8		1	1 unit	003	0.332	
32		5SY8232-7		003	5SY8232-8		1	1 unit	003	0.340	
40		5SY8240-7		003	5SY8240-8		1	1 unit	003	0.308	
50		5SY8250-7		003	5SY8250-8		1	1 unit	003	0.330	
63		5SY8263-7		003	5SY8263-8		1	1 unit	003	0.330	

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

5SY and 5SP Miniature Circuit Breakers

5SY8, 25000 A

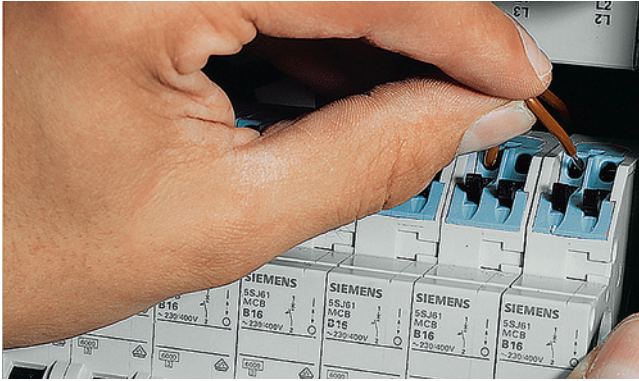
I_n	Mounting width	DT	Characteristic C			Characteristic D			PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
			Article No. www.siemens.com/product?Article.No.	Price per PU	PG	DT	Article No. www.siemens.com/product?Article.No.	Price per PU				
Miniature circuit breakers 25000 A												
3P, 400 V AC												
	0.3	3	5SY8314-7		003	5SY8314-8		1	1 unit	003	0.477	
	0.5		5SY8305-7		003	5SY8305-8		1	1 unit	003	0.482	
	1		5SY8301-7		003	5SY8301-8		1	1 unit	003	0.480	
	1.6		5SY8315-7		003	5SY8315-8		1	1 unit	003	0.466	
	2		5SY8302-7		003	5SY8302-8		1	1 unit	003	0.471	
	3		5SY8303-7		003	5SY8303-8		1	1 unit	003	0.467	
	4		5SY8304-7		003	5SY8304-8		1	1 unit	003	0.473	
	6		5SY8306-7		003	5SY8306-8		1	1 unit	003	0.459	
	8		5SY8308-7		003	5SY8308-8		1	1 unit	003	0.451	
	10		5SY8310-7		003	5SY8310-8		1	1 unit	003	0.444	
	13		5SY8313-7		003	5SY8313-8		1	1 unit	003	0.453	
	16		5SY8316-7		003	5SY8316-8		1	1 unit	003	0.446	
	20		5SY8320-7		003	5SY8320-8		1	1 unit	003	0.476	
	25		5SY8325-7		003	5SY8325-8		1	1 unit	003	0.454	
	32		5SY8332-7		003	5SY8332-8		1	1 unit	003	0.486	
	40		5SY8340-7		003	5SY8340-8		1	1 unit	003	0.464	
	50		5SY8350-7		003	5SY8350-8		1	1 unit	003	0.491	
63	5SY8363-7		003	5SY8363-8		1	1 unit	003	0.467			
3P+N, 400 V AC												
	0.3	4	5SY8614-7		003	5SY8614-8		1	1 unit	003	0.660	
	0.5		5SY8605-7		003	5SY8605-8		1	1 unit	003	0.660	
	1		5SY8601-7		003	5SY8601-8		1	1 unit	003	0.660	
	1.6		5SY8615-7		003	5SY8615-8		1	1 unit	003	0.624	
	2		5SY8602-7		003	5SY8602-8		1	1 unit	003	0.631	
	3		5SY8603-7		003	5SY8603-8		1	1 unit	003	0.621	
	4		5SY8604-7		003	5SY8604-8		1	1 unit	003	0.609	
	6		5SY8606-7		003	5SY8606-8		1	1 unit	003	0.611	
	8		5SY8608-7		003	5SY8608-8		1	1 unit	003	0.660	
	10		5SY8610-7		003	5SY8610-8		1	1 unit	003	0.571	
	13		5SY8613-7		003	5SY8613-8		1	1 unit	003	0.609	
	16		5SY8616-7		003	5SY8616-8		1	1 unit	003	0.601	
	20		5SY8620-7		003	5SY8620-8		1	1 unit	003	0.612	
	25		5SY8625-7		003	5SY8625-8		1	1 unit	003	0.601	
	32		5SY8632-7		003	5SY8632-8		1	1 unit	003	0.627	
	40		5SY8640-7		003	5SY8640-8		1	1 unit	003	0.652	
	50		5SY8650-7		003	5SY8650-8		1	1 unit	003	0.652	
63	5SY8663-7		003	5SY8663-8		1	1 unit	003	0.651			
4P, 400 V AC												
	0.3	4	5SY8414-7		003	5SY8414-8		1	1 unit	003	0.637	
	0.5		5SY8405-7		003	5SY8405-8		1	1 unit	003	0.660	
	1		5SY8401-7		003	5SY8401-8		1	1 unit	003	0.636	
	1.6		5SY8415-7		003	5SY8415-8		1	1 unit	003	0.625	
	2		5SY8402-7		003	5SY8402-8		1	1 unit	003	0.660	
	3		5SY8403-7		003	5SY8403-8		1	1 unit	003	0.638	
	4		5SY8404-7		003	5SY8404-8		1	1 unit	003	0.604	
	6		5SY8406-7		003	5SY8406-8		1	1 unit	003	0.622	
	8		5SY8408-7		003	5SY8408-8		1	1 unit	003	0.598	
	10		5SY8410-7		003	5SY8410-8		1	1 unit	003	0.589	
	13		5SY8413-7		003	5SY8413-8		1	1 unit	003	0.600	
	16		5SY8416-7		003	5SY8416-8		1	1 unit	003	0.594	
	20		5SY8420-7		003	5SY8420-8		1	1 unit	003	0.624	
	25		5SY8425-7		003	5SY8425-8		1	1 unit	003	0.627	
	32		5SY8432-7		003	5SY8432-8		1	1 unit	003	0.640	
	40		5SY8440-7		003	5SY8440-8		1	1 unit	003	0.655	
	50		5SY8450-7		003	5SY8450-8		1	1 unit	003	0.634	
63	5SY8463-7		003	5SY8463-8		1	1 unit	003	0.658			

¹⁾ 1 MW (modular width) = 18 mm.

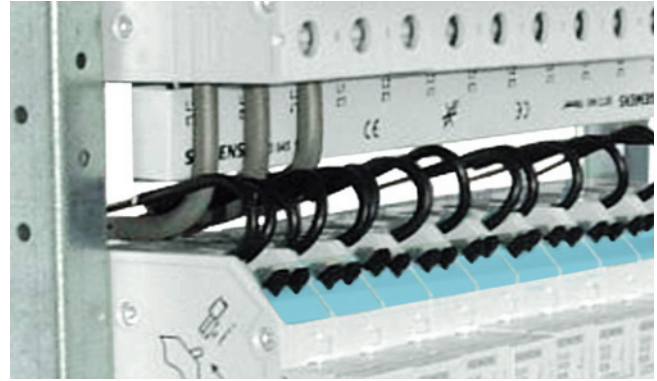
Overview

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.

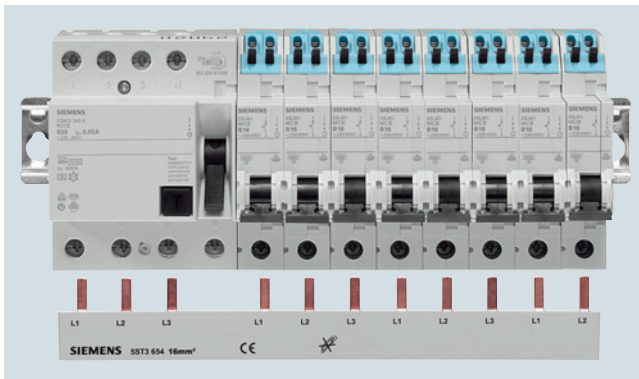
Benefits



- 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





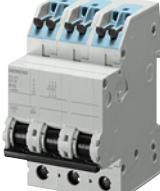
Technical specifications

			5SJ6 ...-KS
Standards			EN 60898-1
Approvals			www.siemens.com/lowvoltage/certificates
Rated voltage U_n		V AC	230/400
Operational voltage			
• Min.		V AC/DC/pole	24
• Max.		V AC	250/440
		V DC/pole	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
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 MW ¹⁾	DT	Characteristic B			Characteristic C					
					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. kg
Miniature circuit breakers with plug-in terminal													
	1P												
	10	1			5SJ6110-6KS		001	5SJ6110-7KS		1	1 unit	001	0.106
	13				5SJ6113-6KS		001	5SJ6113-7KS		1	1 unit	001	0.125
	16				5SJ6116-6KS		001	5SJ6116-7KS		1	1/12 units	001	0.115
	20				5SJ6120-6KS		001	5SJ6120-7KS		1	1 unit	001	0.103
	1P+N												
	10	2			5SJ6510-6KS		001	5SJ6510-7KS		1	1 unit	001	0.220
	13				5SJ6513-6KS		001	5SJ6513-7KS		1	1 unit	001	0.218
	16				5SJ6516-6KS		001	5SJ6516-7KS		1	1 unit	001	0.218
	20				5SJ6520-6KS		001	5SJ6520-7KS		1	1 unit	001	0.218
	2P												
	10	2			5SJ6210-6KS		001	5SJ6210-7KS		1	1 unit	001	0.239
	13				5SJ6213-6KS		001	5SJ6213-7KS		1	1 unit	001	0.226
	16				5SJ6216-6KS		001	5SJ6216-7KS		1	1 unit	001	0.239
	20				5SJ6220-6KS		001	5SJ6220-7KS		1	1 unit	001	0.239
	3P												
	10	3			5SJ6310-6KS		001	5SJ6310-7KS		1	1/4 units	001	0.356
	13				5SJ6313-6KS		001	5SJ6313-7KS		1	1/4 units	001	0.353
	16				5SJ6316-6KS		001	5SJ6316-7KS		1	1/4 units	001	0.351
	20				5SJ6320-6KS		001	5SJ6320-7KS		1	1/4 units	001	0.350

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

Miniature Circuit Breakers

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

Introduction

Overview

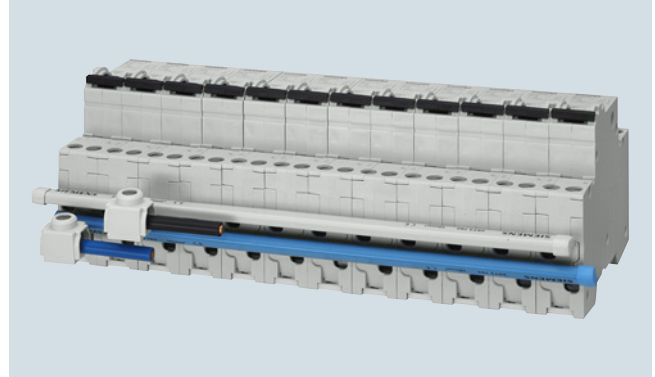
These miniature circuit breakers are used for the protection of systems and installations with switched neutral conductors in distribution boards with little space. They are just a single modular width.

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		www.siemens.com/lowvoltage/certificates	
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	
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

4500 3	I_n	Mount- ing width MW ¹⁾	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. kg
Miniature circuit breakers 4500 A													
	1P+N, 230 V AC												
	N connection, right												
	2	--						5SY3002-7		1	1 unit	019	0.121
	4	--						5SY3004-7		1	1 unit	019	0.121
	6	5SY3006-6				019		5SY3006-7		1	1 unit	019	0.108
	8	--						5SY3008-7		1	1 unit	019	0.107
	10	5SY3010-6				019		5SY3010-7		1	1 unit	019	0.110
	13	5SY3013-6				019		5SY3013-7		1	1 unit	019	0.118
	16	5SY3016-6				019		5SY3016-7		1	1 unit	019	0.108
	20	5SY3020-6				019		5SY3020-7		1	1 unit	019	0.110
	25	5SY3025-6				019		5SY3025-7		1	1 unit	019	0.116
	32	5SY3032-6				019		5SY3032-7		1	1 unit	019	0.126
40	5SY3040-6				019		5SY3040-7		1	1 unit	019	0.127	
	N connection, left												
	2	--						5SY3002-7KL		1	1 unit	019	0.112
	4	--						5SY3004-7KL		1	1 unit	019	0.120
	6	5SY3006-6KL				019		5SY3006-7KL		1	1 unit	019	0.117
	8	--						5SY3008-7KL		1	1 unit	019	0.121
	10	5SY3010-6KL				019		5SY3010-7KL		1	1 unit	019	0.110
	13	5SY3013-6KL				019		5SY3013-7KL		1	1 unit	019	0.120
	16	5SY3016-6KL				019		5SY3016-7KL		1	1 unit	019	0.108
	20	5SY3020-6KL				019		5SY3020-7KL		1	1 unit	019	0.110
	25	5SY3025-6KL				019		5SY3025-7KL		1	1 unit	019	0.126
	32	5SY3032-6KL				019		5SY3032-7KL		1	1 unit	019	0.117
	40	5SY3040-6KL				019		5SY3040-7KL		1	1 unit	019	0.125




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


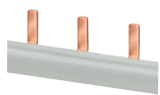
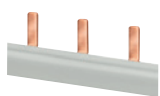

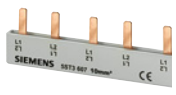

6000 3		I_n	Mount- ing width MW ¹⁾	DT	Characteristic B			Characteristic C			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
					Article No. www.siemens.com/ product?Article No.	Price per PU	PG DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PG				
Miniature circuit breakers, compact, 1+N (1P+N), 230 V AC														
	N pole, right													
	2	1	--											
	4		--											
	6		5SY6006-6			001	5SY6002-7		1	1 unit	001	0.127		
	8		--				5SY6004-7		1	1 unit	001	0.121		
	10		5SY6010-6			001	5SY6006-7		1	1 unit	001	0.118		
	13		5SY6013-6			001	5SY6008-7		1	1 unit	001	0.124		
	16		5SY6016-6			001	5SY6010-7		1	1 unit	001	0.110		
	20		5SY6020-6			001	5SY6013-7		1	1 unit	001	0.084		
	25		5SY6025-6			001	5SY6016-7		1	1 unit	001	0.102		
	32		5SY6032-6			001	5SY6020-7		1	1 unit	001	0.119		
40		5SY6040-6			001	5SY6025-7		1	1 unit	001	0.113			
	N pole, left													
	2	1	--											
	4		--											
	6		5SY6006-6KL			001	5SY6002-7KL		1	1 unit	001	0.101		
	8		--				5SY6004-7KL		1	1 unit	001	0.122		
	10		5SY6010-6KL			001	5SY6006-7KL		1	1 unit	001	0.126		
	13		5SY6013-6KL			001	5SY6008-7KL		1	1 unit	001	0.122		
	16		5SY6016-6KL			001	5SY6010-7KL		1	1 unit	001	0.118		
	20		5SY6020-6KL			001	5SY6013-7KL		1	1 unit	001	0.111		
	25		5SY6025-6KL			001	5SY6016-7KL		1	1 unit	001	0.103		
	32		5SY6032-6KL			001	5SY6020-7KL		1	1 unit	001	0.122		
40		5SY6040-6KL			001	5SY6025-7KL		1	1 unit	001	0.126			

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. kg
	MW ¹⁾	mm							
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	020	0.034
	For 12 MCBs 1+N, blue			216	5ST3763		1 10 units	020	0.033
	Single-phase For MCBs 1+N, gray		1	1016	5ST3764		1 10 units	020	0.134
	For MCBs 1+N, blue			1016	5ST3765		1 10 units	020	0.134
End caps for 5ST376 busbars									
	1 set comprises a right and a left cap Color gray				5ST3766		1 10 sets	020	0.001
	Blue				5ST3767		1 10 sets	020	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	020	0.033
	For 9 MCBs 1+N			257,5	5ST3614		1 10 units	020	0.056
	For 12 MCBs 1+N			210	5ST3615		1 10 units	020	0.079
Terminals for 5ST376									
	Side terminal version For conductors up to 25 mm ²				5ST3768		1 25 units	020	0.012

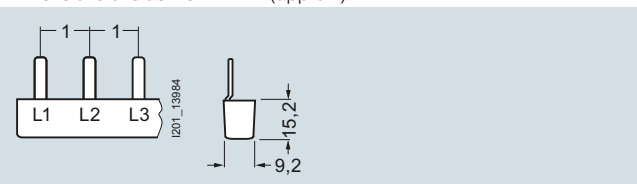
¹⁾ 1 MW (modular width) = 18 mm.

Dimensional drawings

5ST36

Pin spacing in MW

Dimensions of side view in mm (approx.).

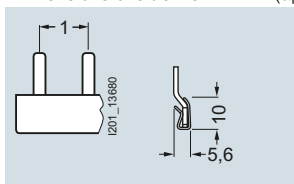


5ST3613
5ST3614
5ST3615

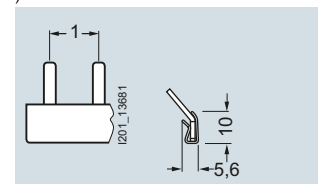
5ST37

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, 5ST3013-2 5ST3014, 5ST3014-2 5ST3015, 5ST3015-2	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	www.siemens.com/lowvoltage/certificates			
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.	--	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	
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
Mounting position	Any			
Ambient temperature	°C	-25 ... +55		-25 ... +55
Storage temperature	°C	-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
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 × U_n	0.7 ... 1.1 × U_n		0.9 ... 1.15 × U_n
• Rated frequency f_n	Hz	--	50 ... 60		50 ... 60
Response limits					
• Tripping		< 0.35 ... 0.7 × 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	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				
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
Behavior in the event of control voltage failure		--			No change








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

Miniature Circuit Breakers



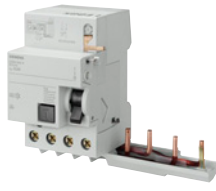


Additional Components

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 miniature circuit breakers, 5SU1 RCBOs, for 5SV residual current protective device and 5TE8 switches								
	1 NO + 1 NC For low power	0.5	▶	5ST3010		1	1 unit	020	0.055
			▶	5ST3013		1	1 unit	020	0.066
	2 NO For low power			5ST3011 5ST3014		1	1 unit	020	0.066
				5ST3014		1	1 unit	020	0.054
	2 NC For low power			5ST3012 5ST3015		1	1 unit	020	0.067
				5ST3015		1	1 unit	020	0.064
	Auxiliary switches (AS) with TEST button For 5SL, 5SY, 5SP miniature circuit breakers, 5SU1 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 unit	020	0.071
				5ST3011-2 5ST3014-2		1	1 unit	020	0.049
	2 NO For low power			5ST3011-2 5ST3014-2		1	1 unit	020	0.045
				5ST3014-2		1	1 unit	020	0.045
	2 NC For low power			5ST3012-2 5ST3015-2		1	1 unit	020	0.071
				5ST3015-2		1	1 unit	020	0.063
	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 unit	020	0.056
	2 NO			5ST3021		1	1 unit	020	0.066
	2 NC			5ST3022		1	1 unit	020	0.069
	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	020	0.072
	2 NO			5ST3021-2		1	1 unit	020	0.048
	2 NC			5ST3022-2		1	1 unit	020	0.048
	Undervoltage releases (UR) For 5SL, 5SY, 5SP miniature circuit breakers, 5SU1 RCBOs, for 5SV residual current protective device, but not for 5SY60.. and 5SL3/5SL6 miniature circuit breakers								
	With integrated auxiliary switch								
	230 AC	1	▶	5ST3040		1	1 unit	020	0.115
	110 DC			5ST3041		1	1 unit	020	0.112
	24 DC			5ST3042		1	1 unit	020	0.101
	Without integrated auxiliary switch								
	230 AC	1	▶	5ST3043		1	1 unit	020	0.103
110 DC			5ST3044		1	1 unit	020	0.089	
24 DC			5ST3045		1	1 unit	020	0.097	
	Shunt trips (ST) For 5SL, 5SY, 5SP miniature circuit breakers, 5SU1 RCBOs, for 5SV residual current protective device, but not for 5SY60.. and 5SL3/5SL6 miniature circuit breakers								
	110 ... 415 V AC	1	▶	5ST3030		1	1 unit	020	0.100
	24 ... 48 V AC/DC	1	▶	5ST3031		1	1 unit	020	0.090
	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	020	0.447

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	011	0.192
	30	0.3 ... 40			5SM2322-6		1	1 unit	011	0.198
	300				5SM2622-6		1	1 unit	011	0.190
	30	0.3 ... 63			5SM2325-6		1	1 unit	011	0.217
	100				5SM2425-6		1	1 unit	011	0.207
300				5SM2625-6		1	1 unit	011	0.214	
500				5SM2725-6		1	1 unit	011	0.197	
	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	011	0.300
	300				5SM2632-6		1	1 unit	011	0.303
	30	0.3 ... 63			5SM2335-6		1	1 unit	011	0.359
	100				5SM2435-6		1	1 unit	011	0.312
	300				5SM2635-6		1	1 unit	011	0.267
500				5SM2735-6		1	1 unit	011	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	011	0.327
	300				5SM2642-6		1	1 unit	011	0.322
	30	0.3 ... 63			5SM2345-6		1	1 unit	011	0.396
	100				5SM2445-6		1	1 unit	011	0.338
	300				5SM2645-6		1	1 unit	011	0.346
500				5SM2745-6		1	1 unit	011	0.325	
	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	011	0.516
300		5SM2627-6				1	1 unit	011	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	011	0.899
300		5SM2647-6				1	1 unit	011	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?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, 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	011	0.218
	30	0.3 ... 63			5SM2325-6KK01		1	1 unit	011	0.215
	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	011	0.351	
30	0.3 ... 63			5SM2335-6KK01		1	1 unit	011	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	011	0.381	
30	0.3 ... 63			5SM2345-6KK01		1	1 unit	011	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	011	0.207
	300	0.3 ... 63			5SM2625-8		1	1 unit	011	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	011	0.338	
500				5SM2735-8		1	1 unit	011	0.301	
1000				5SM2835-8		1	1 unit	011	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	011	0.366
	500				5SM2745-8		1	1 unit	011	0.307
	1000				5SM2845-8		1	1 unit	011	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	011	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	011	0.778	
1000				5SM2847-8		1	1 unit	011	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
			Terminal covers For miniature circuit breakers, but not for 5SY60... For additional covering of the screw openings per pole, sealable. In the case of 5SY, also prevents removal of device from the standard mounting rail.					
		▶	5ST3800		1	10 units	020	0.002
			Handle locking devices Sealable to prevent undesired mechanical ON/OFF switching For 5SP and 5SY miniature circuit breakers For padlock with max. 3 mm shackle					
			5ST3801		1	1 unit	020	0.012
			5ST3806		1	5 units	020	0.003
			Padlocks For 5ST3801 and 5ST3806 handle locking device					
			5ST3802		1	1 unit	020	0.040
			Locking devices For 5SP and 5SY miniature circuit breakers comprising 5ST3801 handle locking device and 5ST3802 padlock					
			5ST3803		1	1 set	020	0.044
			Locking devices For 5SL miniature circuit breakers, comprising 5ST3806 handle locking device and 5ST3802 padlock					
			5ST3807		1	1 set	020	0.024
		0.5	Spacers Can be placed on either side of the standard mounting rail. Two spacers allow for convenient cable routing					
			5TG8240		1	2 units	026	0.010
			Fixing parts Made of plastic, for use on a mounting plate					
			5ST2201		1	1 unit	020	0.012
			Inscription labels 15 mm x 9 mm, 3 frames à 44 labels, can be mounted on casing collar, white, self-adhesive					
			5ST2173		1	1 set	020	0.048

Labeling system





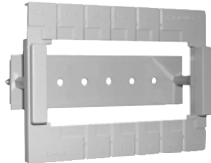

Recommended ELAT-3-747 labels for printing on normal printers can be ordered at:

Brady GmbH
Otto-Hahn-Str. 5-7
D-63222 Langen
Tel.: +49 (6103) 7598-660

Miniature Circuit Breakers

Additional Components

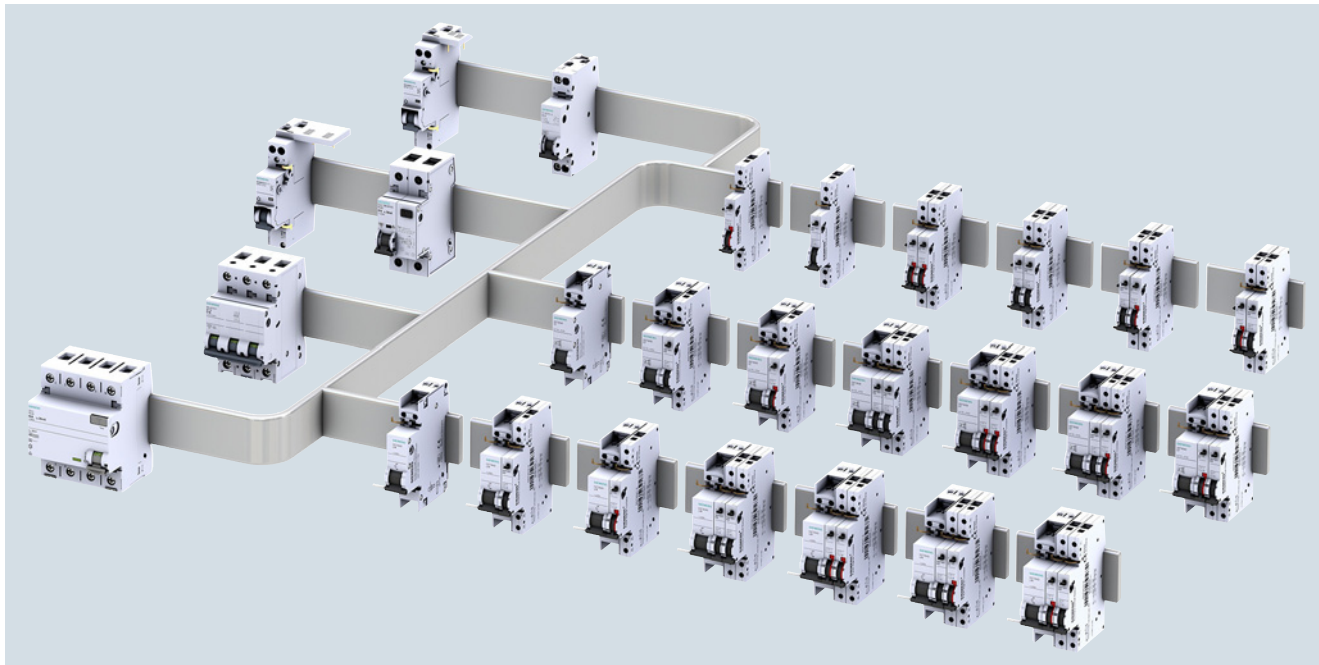
Mechanical components

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
 <p>Terminal covers, gray For surface mounting, degree of protection IP40, sealable, with 35 mm standard mounting rail</p> <ul style="list-style-type: none"> • Up to 2.5 MW • Up to 4.5 MW 		5SW3004		1	1 unit	015	0.089
		5SW3005		1	1 unit	015	0.185
 <p>Wall enclosures, gray For flush mounting, degree of protection IP40 with 35 mm standard mounting rail</p> <ul style="list-style-type: none"> • Up to 2.5 MW • Up to 4.5 MW 		5SW3006		1	1/4 units	015	0.131
		5SW3007		1	1 unit	015	0.162
 <p>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</p>		5SW1200		1	1 unit	015	0.476
 <p>Covers Can be assembled as mini distribution board, suitable for all devices, cover parts prepared for rail mounting of conventional label caps, comprising:</p> <ul style="list-style-type: none"> • 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		1	10 units	020	0.026
		5ST2135		1	5 units	020	0.288
		5ST2136		1	5 units	020	0.239
 <p>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</p>		7LF9006		1	1 unit	025	0.074
 <p>Intermediate frames for 70 mm devices in 55 mm ALPHA SIMBOX small distribution boards Versions</p> <ul style="list-style-type: none"> • 1-tier • 2-tier • 3-tier • 4-tier <p>For further information on ALPHA distribution boards, ALPHA SIMBOX small distribution boards and intermediate frames, see chapter 'Distribution Boards'.</p>		8GB4561		1	1 unit	032	0.795
		8GB4562		1	1 unit	032	0.911
		8GB4563		1	1 unit	032	1.111
		8GB4564		1	1 unit	032	1.265

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 breakersKS 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.

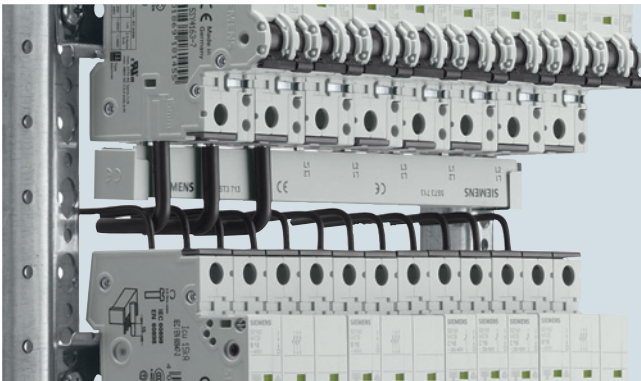
The extremely flexible 5ST36 busbar system with fixed lengths also enables installation in any length as the busbars can be overlapped.

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

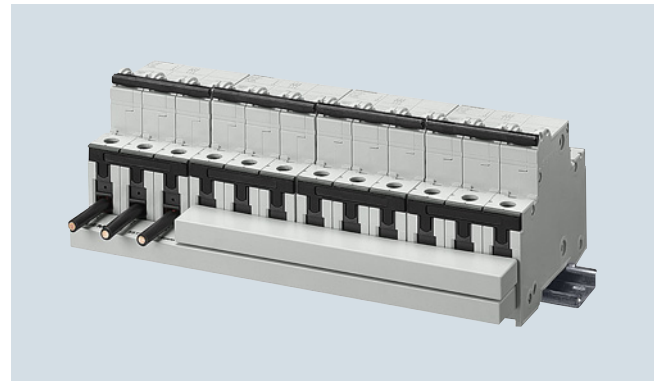
Any free pins on the busbars can be made safe by covering with touch protection.

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 \(AFDDs\)"](#).

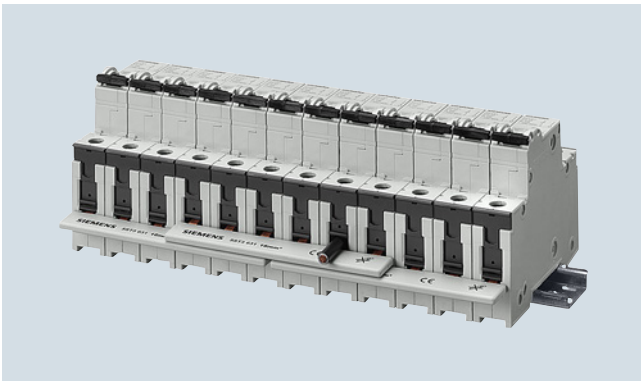
Benefits



- 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.

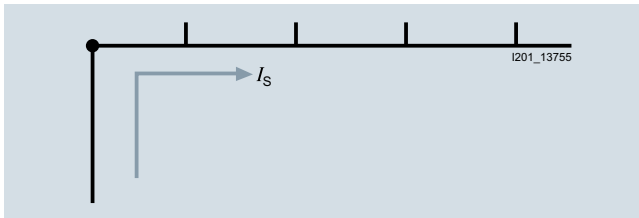


- The fact that the connection of the conductor is always clearly visible facilitates cable entry of all pole types and considerably reduces mounting times.

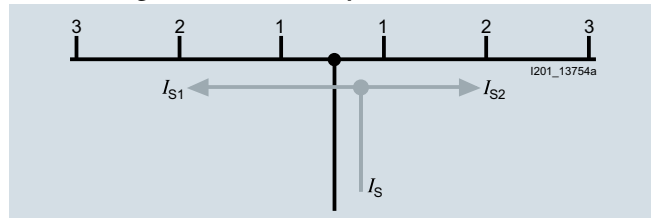
Technical specifications

		5ST3
Standards		EN 60439-1 (VDE 0660-500): 2005-01
Busbar material		SF-Cu F 24
Partition material		Plastic, Cycloy 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




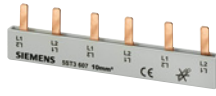

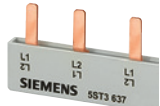
The sum of the outgoing current per branch (1, 2, 3 ... n) must not be greater than the max. busbar current I_S /phase.

Miniature Circuit Breakers

Busbars

5ST standard busbars

Selection and ordering data

	Pin spacing 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
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	020	0.011
	For 6 MCBs 1P		105	5ST3601		1	10 units	020	0.018
	For 12 MCBs 1P		210	5ST3602		1	10 units	020	0.049
Single-phase, for MCBs with AS or FC									
	For 2 MCBs 1P	1.5	40	5ST3603		1	10 units	020	0.011
	For 6 MCBs 1P		156.5	5ST3604		1	10 units	020	0.030
	For 9 MCBs 1P		237	5ST3605		1	10 units	020	0.050
Two-phase									
	For 2 MCBs 2P	1	75.5	5ST3606		1	10 units	020	0.021
	For 3 MCBs 2P		105	5ST3607		1	10 units	020	0.030
	For 6 MCBs 2P		210	5ST3608		1	10 units	020	0.063
Three-phase									
	For 2 MCBs 3P	1	102	5ST3613		1	10 units	020	0.033
	For 3 MCBs 3P		157.5	5ST3614		1	10 units	020	0.056
	For 4 MCBs 3P		210	5ST3615		1	10 units	020	0.079
Three-phase, for MCBs with AS or FC									
	For 2 MCBs 3P	1+1+1.5	115	5ST3616		1	10 units	020	0.037
	For 4 MCBs 3P		237	5ST3617		1	10 units	020	0.090
	For 6 MCBs 1P	1.5	125	5ST3618		1	10 units	020	0.046
	For 9 MCBs 1P		229	5ST3620		1	10 units	020	0.081
Three-phase									
	For 1 RCCB 4P N right and 8 MCBs 1P	1	210	5ST3624		1	10 units	020	0.079
	For 1 RCCB 4P N left and 8 MCBs 1P	1	192	5ST3667		1	10 units	020	0.070
Four-phase									
	For 2 MCBs 4P or 3P+N	1	145	5ST3621		1	10 units	020	0.051
	For 3 MCBs 4P or 3P+N		215	5ST3622		1	10 units	020	0.094
	For 6 MCBs 2P or 1P+N		215	5ST3623		1	10 units	020	0.089
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	020	0.007
	For 6 MCBs 1P		105	5ST3631		1	10 units	020	0.027
	For 12 MCBs 1P		210	5ST3632		1	10 units	020	0.054
Single-phase, for MCBs with AS or FC									
	For 2 MCBs 1P	1.5	40	5ST3633		1	10 units	020	0.012
	For 6 MCBs 1P		156.5	5ST3634		1	10 units	020	0.029
	For 9 MCBs 1P		237	5ST3635		1	10 units	020	0.054
Two-phase									
	For 2 MCBs 2P	1	75.5	5ST3636		1	10 units	020	0.026
	For 3 MCBs 2P		105	5ST3637		1	10 units	020	0.037
	For 6 MCBs 2P		210	5ST3638		1	10 units	020	0.089
Two-phase for MCBs with AS or FC									
	For 2 MCBs 2P	1 + 1.5	75.5	5ST3640		1	10 units	020	0.024
	For 3 MCBs 2P		120.5	5ST3641		1	10 units	020	0.048
	For 5 MCBs 2P		210	5ST3642		1	10 units	020	0.080

¹⁾ 1 MW (modular width) = 18 mm.

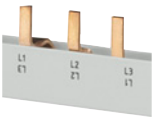
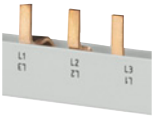

	Pin spacing	Length	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	MW ¹⁾	mm							
5ST36 busbars, 16 mm², for miniature circuit breakers, fixed lengths, cannot be cut, fully insulated									
Three-phase									
For 2 MCBs 3P	1	102.5		5ST3643		1	10 units	020	0.050
For 3 MCBs 3P		157.5		5ST3644		1	10 units	020	0.082
For 4 MCBs 3P		210	▶	5ST3645		1	10 units	020	0.116
Three-phase, for MCBs with AS or FC									
For 2 MCBs 3P	1+1+1.5	115		5ST3646		1	10 units	020	0.056
For 4 MCBs 3P		237		5ST3647		1	10 units	020	0.132
For 6 MCBs 1P	1.5	156		5ST3648		1	10 units	020	0.067
For 9 MCBs 1P		245		5ST3650		1	10 units	020	0.110
Three-phase,									
For 1 RCCB 4P N right and 8 MCBs 1P	1	210		5ST3654		1	10 units	020	0.115
For 1 RCCB 4P N left and 8 MCBs 1P	1	210		5ST3668		1	10 units	020	0.100
Four-phase									
For 2 MCBs 4P or 3P+N	1			5ST3651		1	10 units	020	0.080
For 3 MCBs 4P or 3P+N				5ST3652		1	10 units	020	0.137
For 6 MCBs 2P or 1P+N				5ST3653		1	10 units	020	0.118
Touch protection									
For free connections, yellow (RAL 1004) 5 x 1 pin			▶	5ST3655		1	10 units	020	0.008
10 mm²									
20 x 5ST3613 + 10 x 5ST3614 + 50 x 5ST3615 + 50 x 5ST3655				5ST3656		1	1 set	020	5.348
16 mm²									
20 x 5ST3643 + 10 x 5ST3644 + 50 x 5ST3645 + 50 x 5ST3655				5ST3657		1	1 set	020	7.634
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 unit	020	0.033
For 9 MCBs 1P with AS or FC	1.5			5ST3732		1	1 unit	020	0.034
Two-phase									
For 6 MCBs 2P	1			5ST3734		1	1 unit	020	0.075
For 4 MCBs 2P with AS or FC	1+1.5			5ST3736		1	1 unit	020	0.071
Three-phase									
For 4 MCBs 3P	1		▶	5ST3738		1	1 unit	020	0.084
for 3 MCBs 3P with AS or FC	1+1+1.5			5ST3741		1	1 unit	020	0.078
For 3 MCBs 1P with AS or FC	1.5			5ST3743		1	1 unit	020	0.075
Four-phase									
For 3 MCBs 4P or 3P+N	1			5ST3745		1	1 unit	020	0.112
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	020	0.153
For MCBs 1P with AS or FC	1.5			5ST3733		1	1 unit	020	0.157
Two-phase									
For MCBs 1P and UR or AR NEW	2			5ST3735-2		1	1 unit	020	0.505
For MCBs 2P	1			5ST3735		1	1 unit	020	0.343
For MCBs 2P with AS or FC	1+1.5			5ST3737		1	1 unit	020	0.327
Three-phase									
For MCBs 3P	1		▶	5ST3740		1	1 unit	020	0.430
For MCBs 3P with AS or FC	1+1+1.5			5ST3742		1	1 unit	020	0.421
For MCBs 1P with AS or FC	1.5			5ST3744		1	1 unit	020	0.420
Four-phase									
For MCBs 4P or 3P+N	1			5ST3746		1	1 unit	020	0.600
For MCBs 2P with AS or FC and RCBOs 1P+N with AS or FC NEW	1+1.5			5ST3746-2		1	1 unit	020	0.505

¹⁾ 1 MW (modular width) = 18 mm.


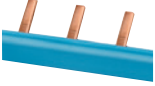

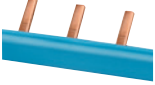



Miniature Circuit Breakers

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	020	0.042
	For MCBs 1P with AS or FC	1.5		▶ 5ST3702		1	1 unit	020	0.040
	Two-phase								
	For MCBs 2P	1		▶ 5ST3704		1	1 unit	020	0.097
	For MCBs 2P with AS or FC	1+1.5		▶ 5ST3706		1	1 unit	020	0.090
	Three-phase								
	For MCBs 3P	1		▶ 5ST3708		1	1 unit	020	0.116
	For MCBs 3P with AS or FC	1+1+1.5		▶ 5ST3711		1	1 unit	020	0.100
	For MCBs 1P with AS or FC	1.5		▶ 5ST3713		1	1 unit	020	0.098
Four-phase									
For MCBs 4P or 3P+N	1		▶ 5ST3715		1	1 unit	020	0.150	
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	020	0.190
	For MCBs 1P with AS or FC	1.5		▶ 5ST3703		1	1 unit	020	0.185
	Two-phase								
	For MCBs 2P	1		▶ 5ST3705		1	1 unit	020	0.452
	For MCBs 2P with AS or FC	1+1.5		▶ 5ST3707		1	1 unit	020	0.446
	Three-phase								
	For MCBs 3P	1		▶ 5ST3710		1	1 unit	020	0.610
	For MCBs 3P with AS or FC	1+1+1.5		▶ 5ST3712		1	1 unit	020	0.580
	For MCBs 1P with AS or FC	1.5		▶ 5ST3714		1	1 unit	020	0.540
Four-phase									
For MCBs 4P or 3P+N	1		▶ 5ST3716		1	1 unit	020	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	020	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	020	0.550	
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	020	0.153	
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	020	0.160	
End caps for 5ST37, can be cut									
	For single-phase busbars		▶ 5ST3748		1	10 units	020	0.001	
	For two-phase and three-phase busbars		▶ 5ST3750		1	10 units	020	0.002	
	For four-phase busbars		▶ 5ST3718		1	10 units	020	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	020	0.034
	For 12 MCBs 1+N, blue	1		5ST3763		1	10 units	020	0.033
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	020	0.134
	For MCBs 1+N, blue	1		5ST3765		1	10 units	020	0.134
End caps for 5ST376									
 	1 set comprises a right and a left cap								
	Color gray			5ST3766		1	10 sets	020	0.001
	Blue			5ST3767		1	10 sets	020	0.001
Terminals for 5ST376									
	Terminal version S For conductors up to 25 mm ²			5ST3768		1	25 units	020	0.012

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

Busbars

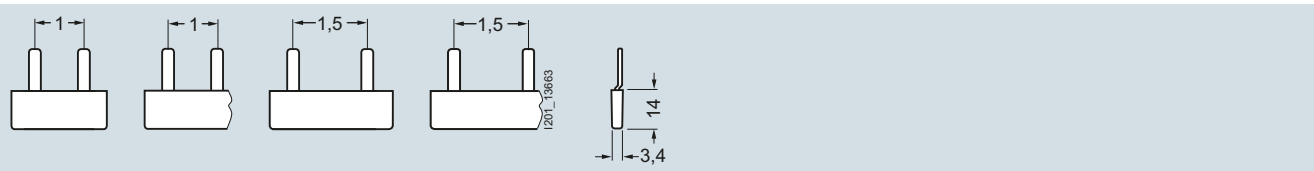
5ST standard busbars

Dimensional drawings

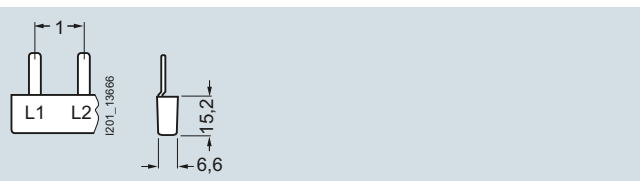
5ST36

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

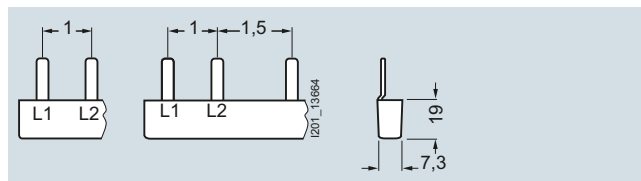
Dimensions of side view in mm (approx.)



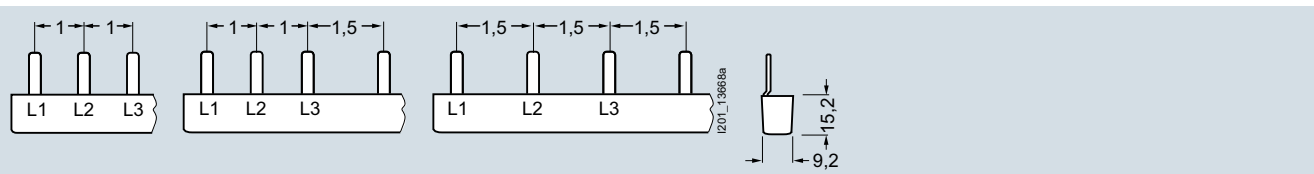
- | | | | |
|--------------------|------------------------------------------|--------------------|------------------------------------------|
| 5ST3600
5ST3630 | 5ST3601
5ST3602
5ST3631
5ST3632 | 5ST3603
5ST3633 | 5ST3604
5ST3605
5ST3634
5ST3635 |
|--------------------|------------------------------------------|--------------------|------------------------------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



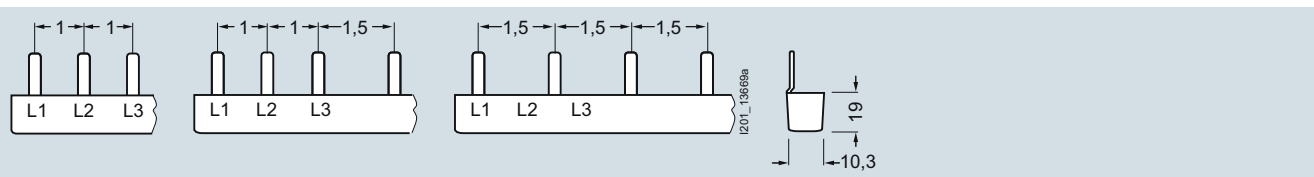
- 5ST3606
5ST3607
5ST3608



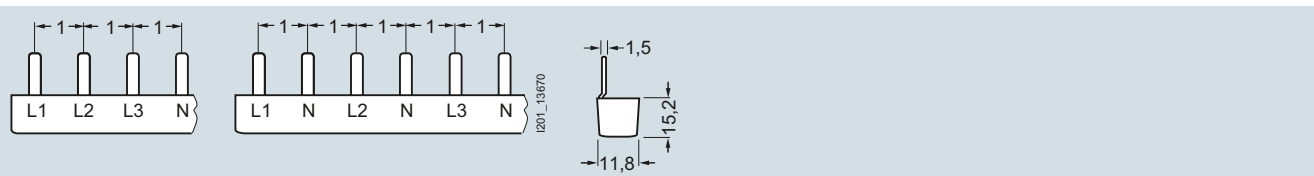
- | | |
|-------------------------------|-------------------------------|
| 5ST3636
5ST3637
5ST3638 | 5ST3640
5ST3641
5ST3642 |
|-------------------------------|-------------------------------|



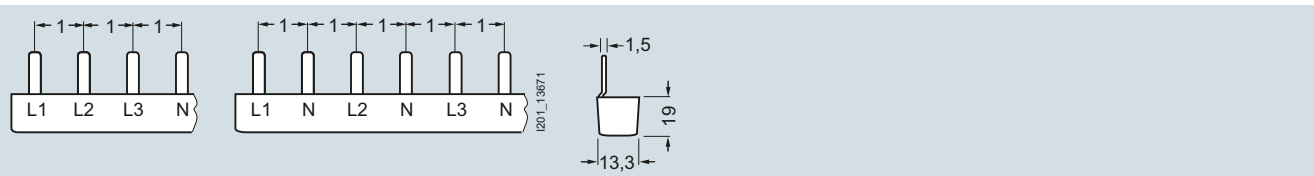
- | | | |
|------------------------------------------|--------------------|--------------------|
| 5ST3613
5ST3614
5ST3615
5ST3667 | 5ST3616
5ST3617 | 5ST3618
5ST3620 |
|------------------------------------------|--------------------|--------------------|



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



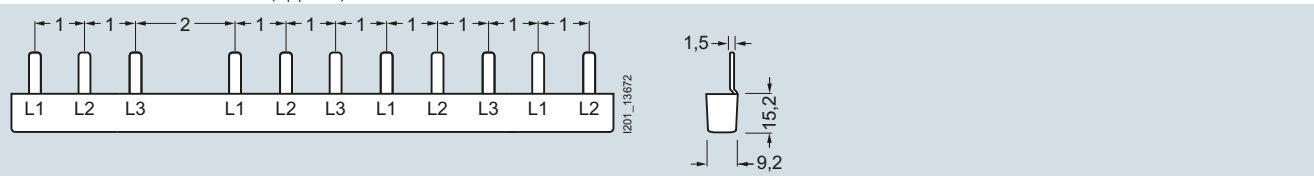
- | | |
|--------------------|---------|
| 5ST3621
5ST3622 | 5ST3623 |
|--------------------|---------|



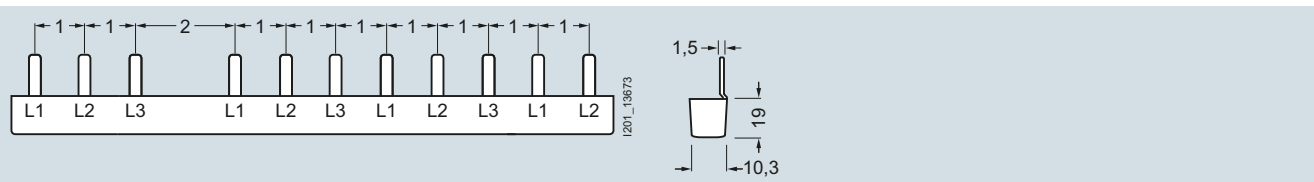
- | | |
|--------------------|---------|
| 5ST3651
5ST3652 | 5ST3653 |
|--------------------|---------|

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

Dimensions of side view in mm (approx.)



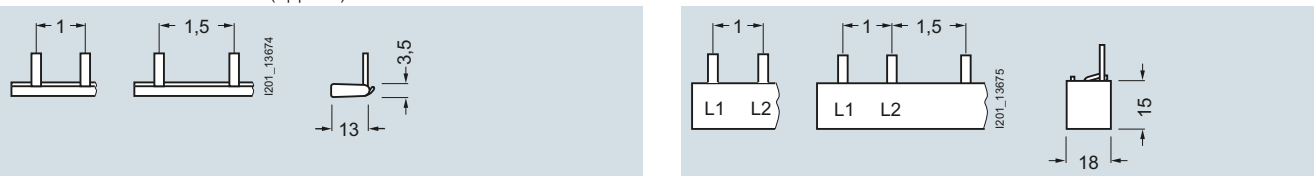
5ST3624



5ST3654

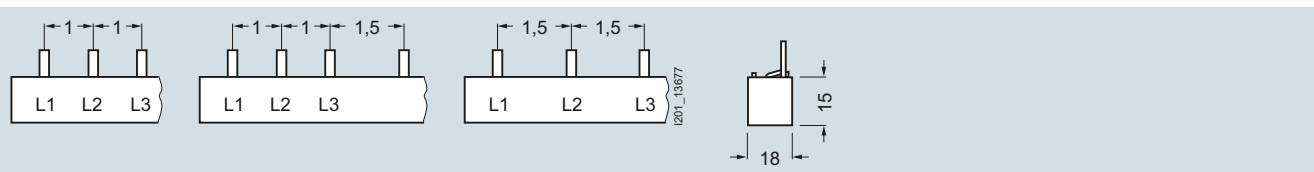
5ST37
Pin spacing in MW (modular width; 1 MW = 18 mm)

Dimensions of side view in mm (approx.)

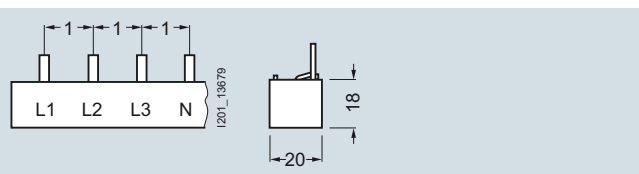


5ST3700 5ST3702
5ST3701 5ST3703
5ST3730 5ST3732
5ST3731 5ST3733
Single-phase Single-phase

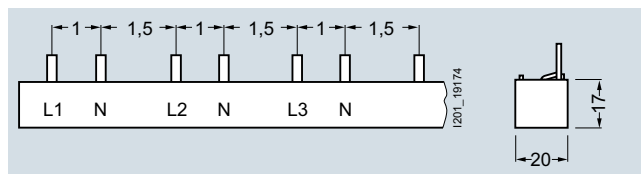
5ST3704 5ST3706
5ST3705 5ST3707
5ST3734 5ST3736
5ST3735 5ST3737
Two-phase Two-phase



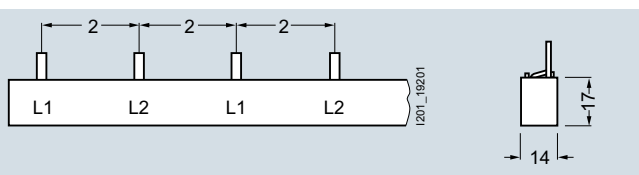
5ST3708 5ST3711 5ST3713
5ST3710 5ST3712 5ST3714
5ST3738 5ST3741 5ST3743
5ST3740 5ST3742 5ST3744



5ST3715
5ST3716
5ST3745
5ST3746



5ST3746-2



5ST3735-2

Miniature Circuit Breakers

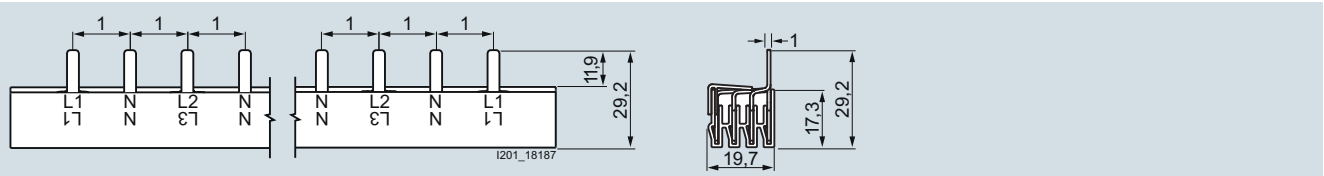
Busbars

5ST standard busbars

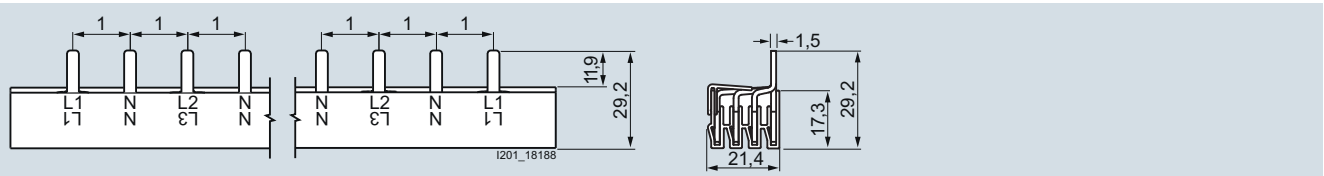
5ST37

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

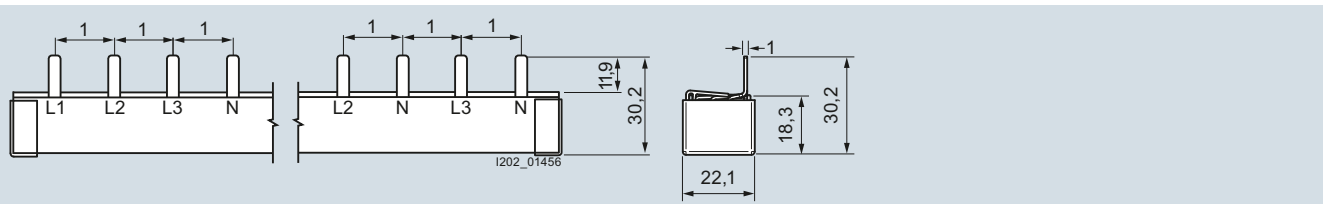
Dimensions of side view in mm (approx.)



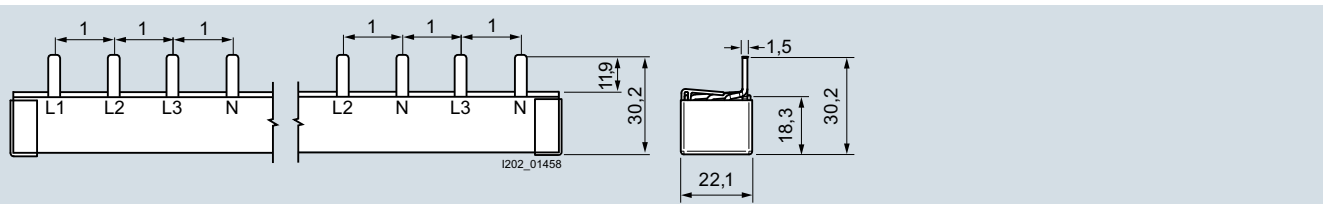
5ST3770-2



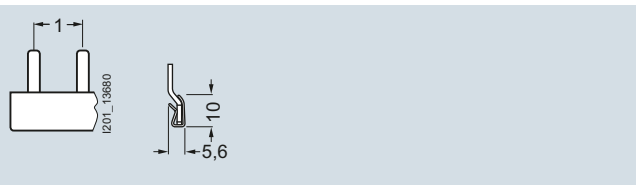
5ST3770-3



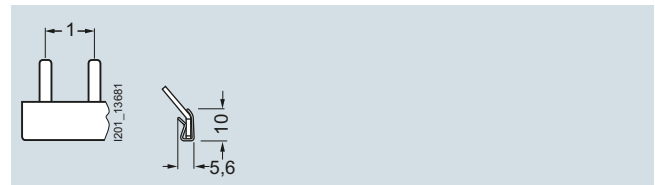
5ST3770-4



5ST3770-5



5ST3762
5ST3764



5ST3763
5ST3765

3

Overview

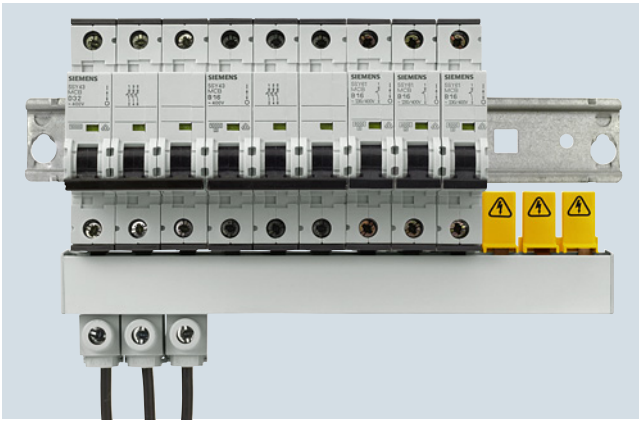
Products according to UL standards are used in North America, but also in several other countries. This is important in particular for exporting machines or electrical switchboard assemblies and equipment to the USA. Acceptance and delivery are possible only if the relevant UL standards are satisfied.

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.

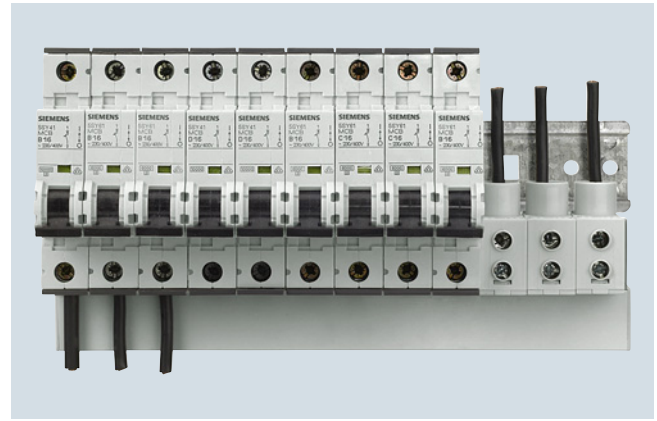
The busbars are available in single-, two- and three-phase versions with different pin spacings and with two cross-sections 18 mm² and 25 mm². Infeed can be directly into the terminals of the miniature circuit breaker or through connection terminals.

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.

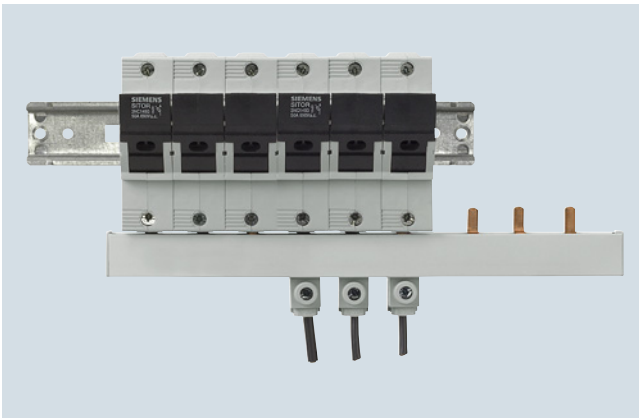
Benefits



- 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 a conductor cross-section of 50 mm²
- Suitable for universal use according to both IEC and UL standards
- Can be used for 5SY, 5SP miniature circuit breakers and for Class CC, 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

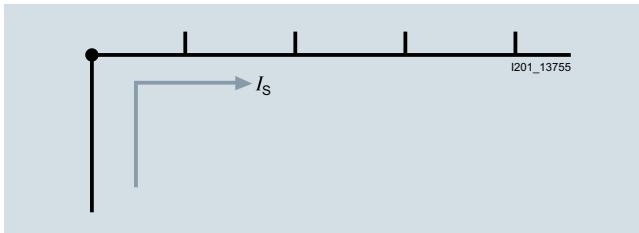
Busbars

5ST3 busbars acc. to UL 508

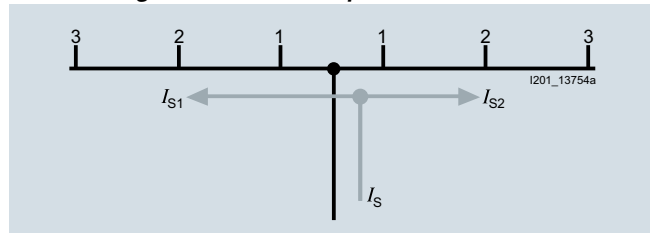
Technical specifications

		5ST37...-0HG	5ST37...-2HG	5ST3770-0HG	5ST3770-1HG
Standards		UL 508, CSA C22.2 No. 14-M 95			
Approvals		UL 508 File No. E328403 CSA			
Operational voltage					
• Acc. to IEC	V AC	690			
• Acc. to UL 508	V AC	600			
Rated conditional short-circuit current	kA	10			
• Dielectric strength	kV/mm	25			
• Surge strength	kV	> 9.5			
Rated current	A	--	--	115	
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		10000 A RMS sym. 600 V for three connections			
	18 mm ²	100 000 A RMS sym. for protection with Class J 175 A			
	25 mm ²	100 000 A RMS sym. for protection with Class J 200 A			
Busbar cross-section	mm ² Cu	18	25	--	--
Infeed		Any			
Conductor cross-sections	AWG mm ²	--	--	10 ... 1/0 6 ... 35 (Cu 60 °C)	14 ... 1 6 ... 50 (Cu 75 °C)
Terminals	± screw (Pozidriv)	--	--	2	2
• Terminal tightening torque	Nm lbs/in.	--	--	5 50	3.5 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. kg
	MW ¹⁾	mm							
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	005	0.330
	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	005	0.330
	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	005	0.700
	For MCBs 2P (5SY) with AS or FC	1+1.5	1000	5ST3707-0HG		1	1 unit	005	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	005	0.820
	For MCBs 3P (5SY) with AS or FC	1+1+1.5	1000	5ST3712-0HG		1	1 unit	005	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	005	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	005	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	005	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	005	1.090
End caps for 5ST37...-HG									
	For single-phase busbars			5ST3748-0HG		1	10 units	005	0.001
	For two- and three-phase busbars			5ST3750-0HG		1	10 units	005	0.002
Terminals according to UL 508									
	Infeed to device 35 mm ²			5ST3770-0HG		1	10 units	005	0.033
	Infeed to busbar 50 mm ²			5ST3770-1HG		1	10 units	005	0.033
Touch protection cover for busbars according to UL 508									
	5 x 1 pin			5ST3655-0HG		1	10 units	005	0.009

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

Busbars

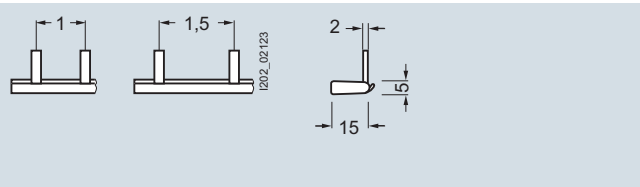
5ST3 busbars acc. to UL 508

Dimensional drawings

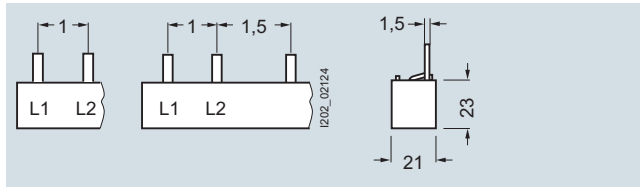
5ST37 busbars

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

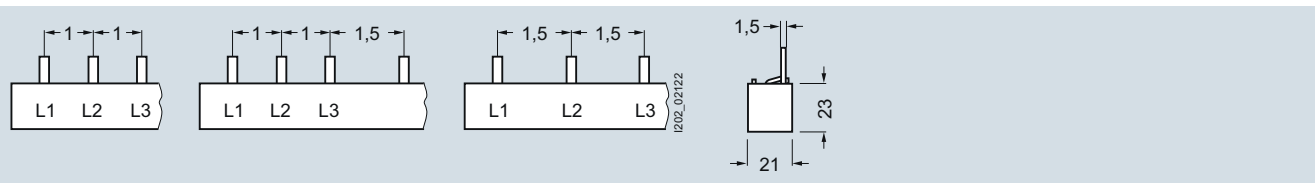
Dimensions of side view in mm (approx.)



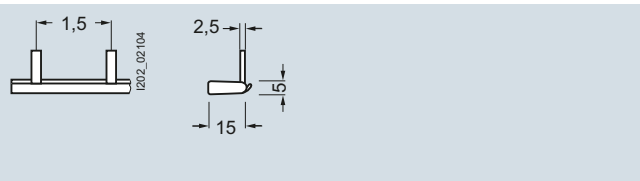
5ST3701-0HG 5ST3703-0HG



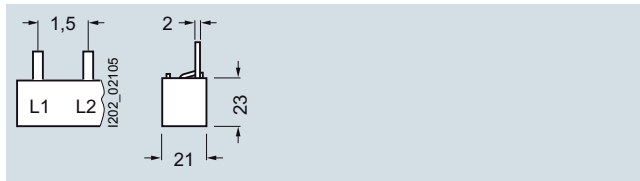
5ST3705-0HG 5ST3707-0HG



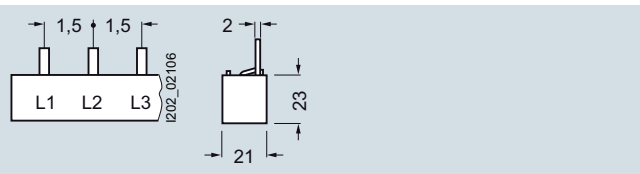
5ST3710-0HG 5ST3712-0HG 5ST3714-0HG



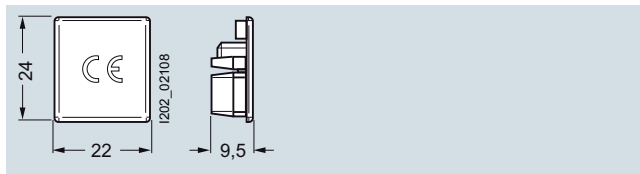
5ST3701-2HG



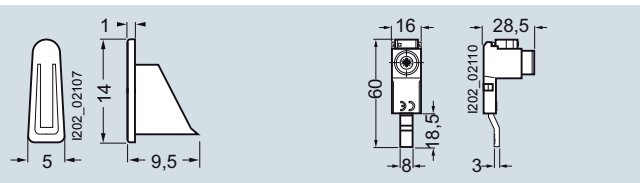
5ST3705-2HG



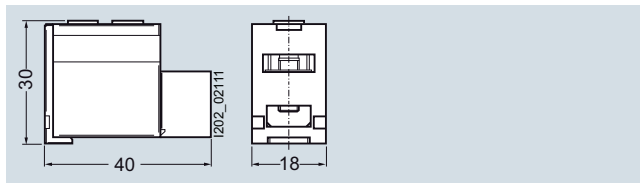
5ST3710-2HG



5ST3750-0HG



5ST3748-0HG 5ST3770-0HG

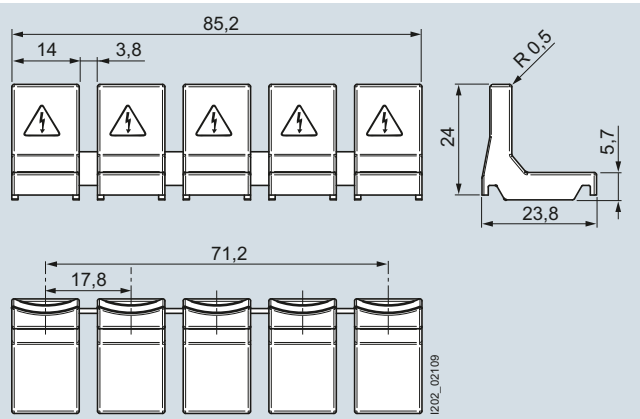


5ST3770-1HG

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	mm ²	1 x 2.5 ... 16	1 x 6 ... 35	1 x 10 ... 35		
		mm ²	--	1 x 6 ... 35	--		
- Finely stranded with end sleeve	Neutral conductor	mm ²	1 x 2.5 ... 10	1 x 6 ... 25	1 x 10 ... 25		
		mm ²	--	1 x 6 ... 25	--		
• Outputs per pole							
- Solid/stranded conductor acc. to IEC	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		
	Neutral conductor	Large	mm ²	--	--		
		Small	mm ²	--	--		
	Neutral conductor	Large	mm ²	6 x 4 ... 16	--		
		Small	mm ²	4 x 1.5 ... 10	--		
- Finely stranded with end sleeve	Large	mm ²	8 x 1.5 ... 10	2 x 4 ... 10	3 x 6 ... 16		
	Small	mm ²	--	5 x 1.5 ... 6	8 x 2.5 ... 10		
	Neutral conductor	Large	mm ²	--	--		
		Small	mm ²	--	--		
	Neutral conductor	Large	mm ²	6 x 4 ... 10	--		
		Small	mm ²	4 x 1.5 ... 6	--		
Tightening torque							
• Inputs							
	Plug-in connection	lbs/in.	13.5	13.5	3.5 ... 5		
		Nm	1.5	1.5	2		
			PZ2	PZ2	PZ2		
• Outputs							
	Large	lbs/in.	13.5	13.5	13.5		
		Nm	1.5	1.5	1.5		
	Plug-in connection		PZ1	PZ2	PZ2		
	Small	lbs/in.	--	7.2	13.5		
		Nm	--	0.8	1.5		
	Plug-in connection		--	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




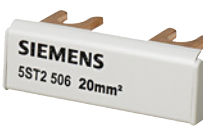
5ST2 distribution blocks

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. Nm	13.2 ... 26.5 1.5 ... 3	31 ... 44 3.5 ... 5 Allen key (4 mm)	44 ... 53 5 ... 6 Allen key (5 mm)	170 ... 186 19 ... 21 Allen key (6 mm)	222 25 Allen key (8 mm)
• Outputs	Large	lbs/in. Nm	13.2 ... 26.5 1.5 ... 3	17.7 ... 26.5 2 ... 3	13.2 ... 26.5 1.5 ... 3	31 ... 62 3.5 ... 7 Standard screwdriver	
	Small	lbs/in. Nm	7 ... 13.2 0.8 ... 1.5	-- --	-- --	18 ... 27 2 ... 3 Standard screwdriver	
	Plug-in connection		PZ2	--	--		
	Plug-in connection		PZ1	--	--		
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	11	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

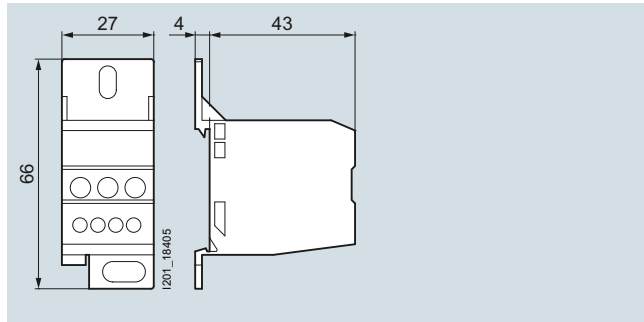
Version	Standard	I	U	Mounting width	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
		A	V	MW							
Distribution blocks											
 5ST2504	1-pole	UL 1059 / UL 486E / IEC 60947-7-1	80	600	1.5	5ST2504		1	1 unit	020	0.074
		UL File No. E80027 / XCFR2	125	600	1.5	5ST2505		1	1 unit	020	0.146
		C22.2 No158 -1987 / XCFR8	160	600	2	5ST2507		1	1 unit	020	0.252
	UL 486E / IEC 60947-7-1	250	600	2.5	5ST2508		1	1 unit	020	0.430	
	UL File No. E80027 / XCFR2	350	600	2.5	5ST2511		1	1 unit	020	0.418	
 5ST2501	4-pole	IEC 60947-7-1	80	500	5	5ST2501		1	1 unit	020	0.224
		IEC 60947-7-1	125	690	5.5	5ST2502		1	1 unit	020	0.337
		IEC 60947-7-1	160	500	9	5ST2503		1	1 unit	020	0.716
 5ST2503											
Accessories											
 5ST2506	Connector for 5ST2505 distribution board	--	--	--		5ST2506		1	10 units	020	0.015
		<ul style="list-style-type: none"> • With touch protection • 20 mm² • Single-phase • 32 mm 									

Miniature Circuit Breakers

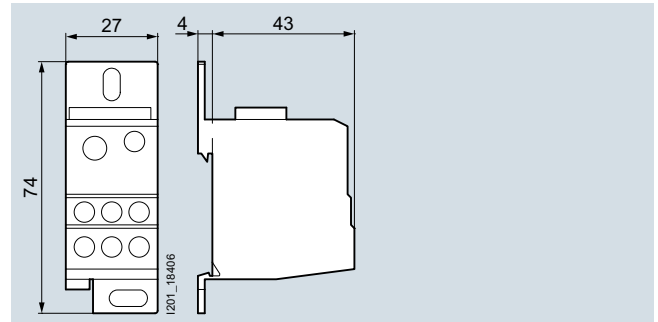
Busbars

5ST2 distribution blocks

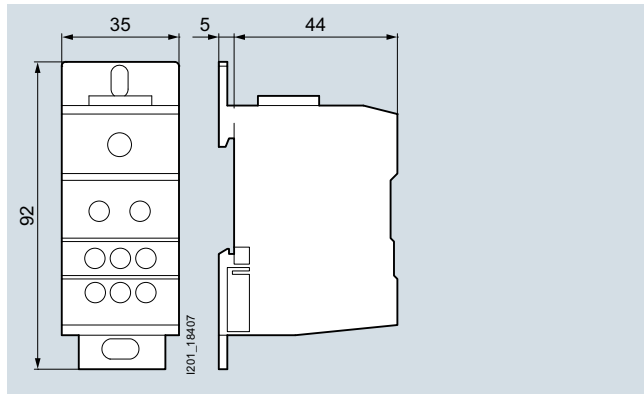
Dimensional drawings



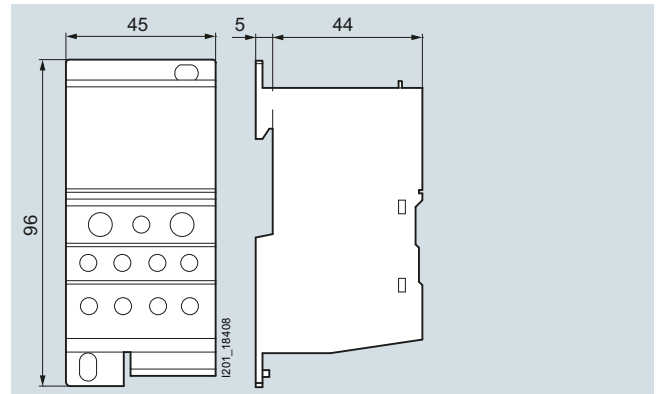
5ST2504



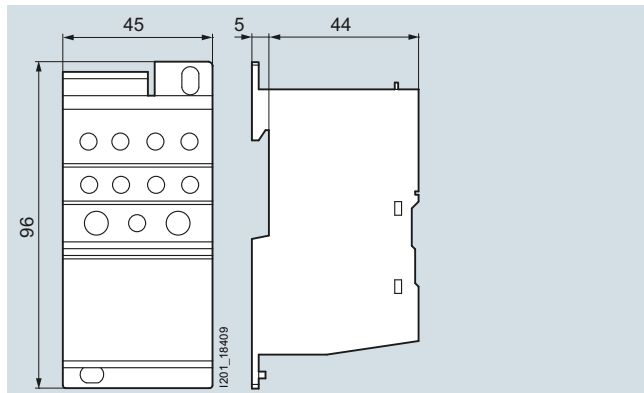
5ST2505



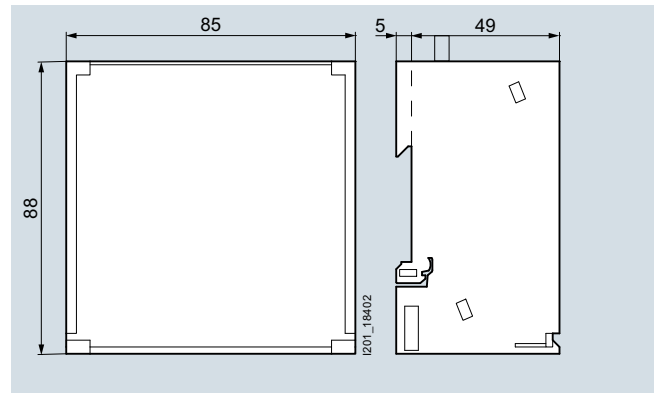
5ST2507



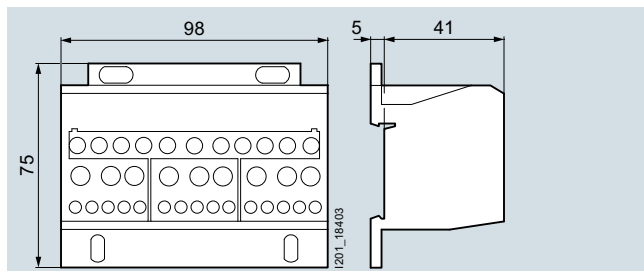
5ST2508



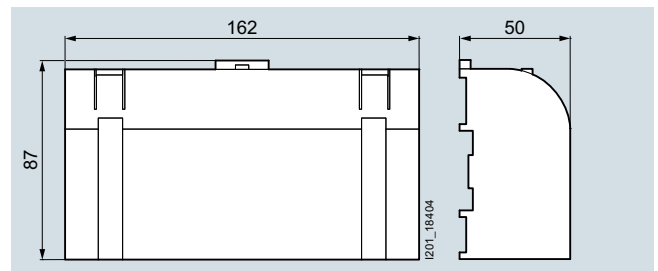
5ST2511



5ST2501



5ST2502



5ST2503

3

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 60439-3
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	020	0.781
	24 MW			▶	5ST2521		1	1 unit	020	1.300
	36 MW			▶	5ST2522		1	1 unit	020	2.041
	Connecting cables with plug									
	120	6	Black	▶	5ST2523		1	10 units	020	0.011
			Blue	▶	5ST2524		1	10 units	020	0.011
		10	Black		5ST2525		1	10 units	020	0.019
			Blue		5ST2526		1	10 units	020	0.017
	220	6	Black		5ST2527		1	10 units	020	0.018
Blue				5ST2528		1	10 units	020	0.018	
	10	Black		5ST2530		1	10 units	020	0.031	
		Blue		5ST2531		1	10 units	020	0.030	
	Crimp connectors									
	For connection to cables 4/6 mm ²					5ST2532		1	20 units	020
	Fixing brackets									
	For mounting on the rear of the standard mounting rail (pair)				▶	5ST2533		1	2 units	020

Note:

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

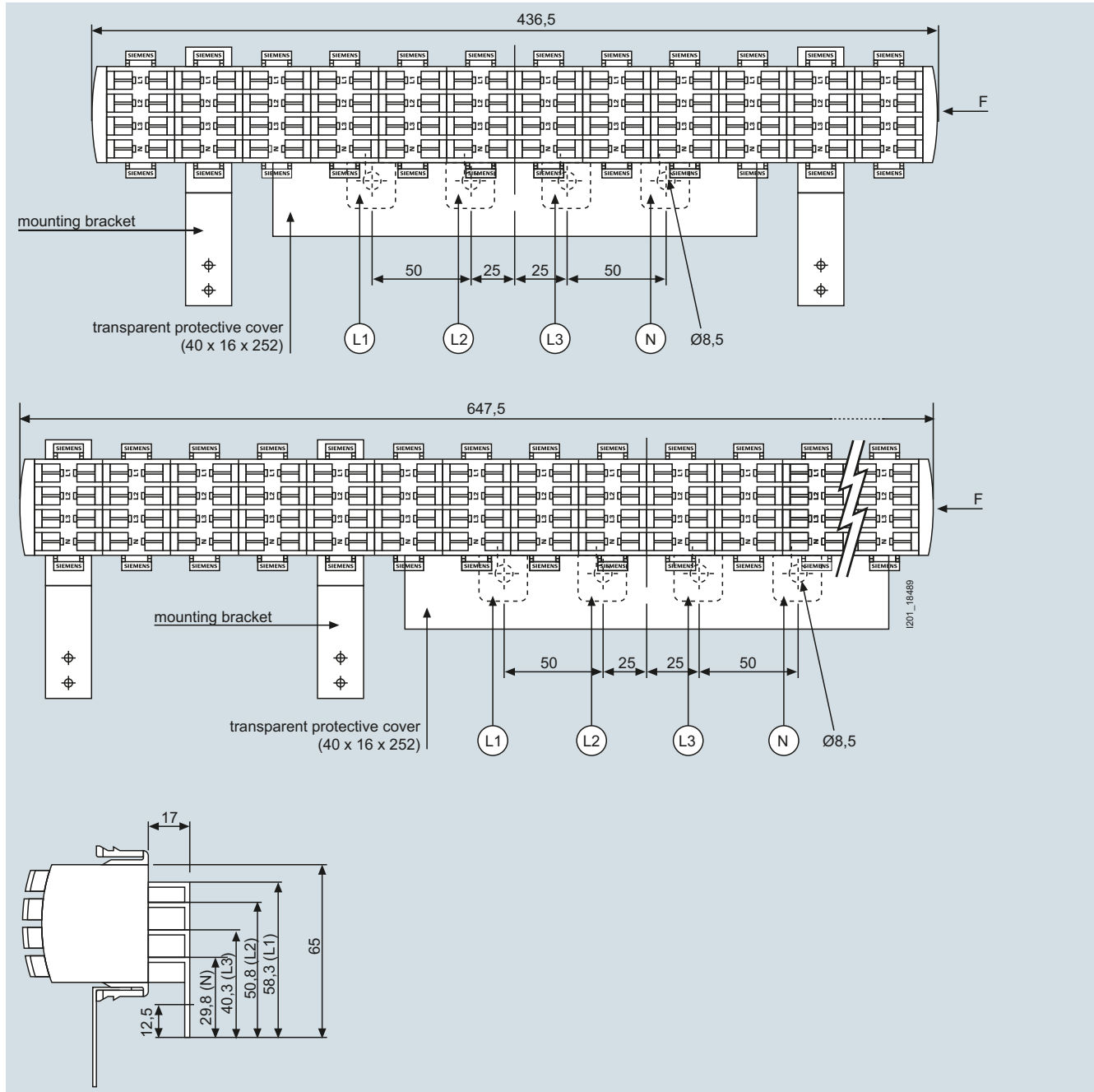
Miniature Circuit Breakers

Busbars

SIKclip wiring system

Dimensional drawings

3



Overview

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

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

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

This covers a wide range of protection tasks, 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.

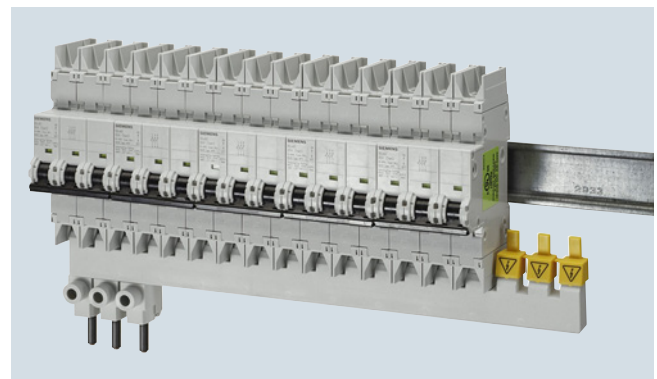
The terminals are suitable for "field wiring". This means that the devices can be installed not only in factory-built distribution boards and control cabinets, but also on-site in a customer system.

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.

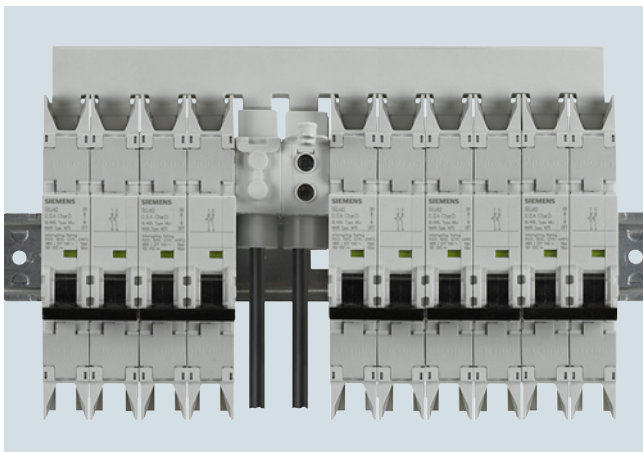
Single, two and three-phase busbars in 3 lengths with 6, 12 or 18 pins are available as accessories for all device series for "field wiring". The infeed is via connection terminals, which are available in two versions, for direct infeed at either the busbar or the miniature circuit breakers. Pins that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

Benefits

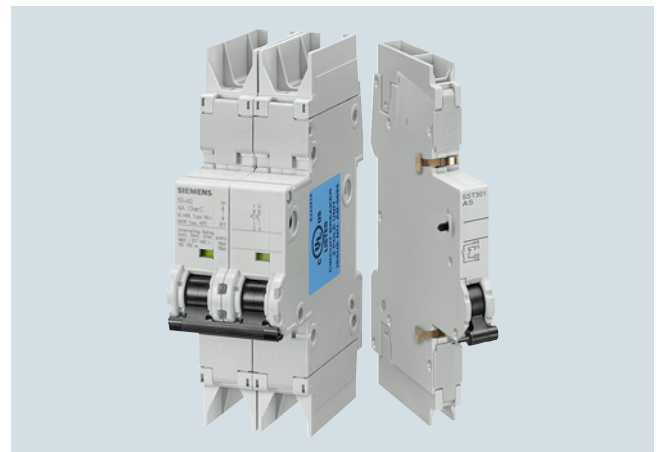
- Can be used globally for all applications in residential, non-residential and industrial buildings. This facilitates the planning of installations and enhances export opportunities
- The devices can be used according to IEC/EN 60898-1 and UL 489, which means these devices can be installed anywhere 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		www.siemens.com/lowvoltage/certificates		
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	
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		
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				
• Acc. to EN 60947-2		Suitable for environment "B" (immunity to interference not applicable)		
Ambient temperature	°C	-25 ... +55, max. 95 % humidity		
Storage temperature	°C	-40 ... +75		
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			--
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		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	V AC 1000/1-pole		600/2- to 3-pole 600/2- to 3-pole (60 Hz)			
• Acc. to IEC	V AC	1000/1-pole				
• Acc. to UL 489	V AC	1000/1-pole				
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	> 10		> 9.5	> 10
• Surge strength	kV	> 9.5				
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 ... 1	14 ... 2
• Solid and stranded	mm ²	--		2.5 ... 35	2.5 ... 50	2.5 ... 35
Terminals						
• Terminal tightening torque	Nm lbs/in.	--		6 mm Allen key 5.5 50	± screw (Pozidriv) 2 4 35	6 mm Allen key 5.5 50
Temperature resistance	°C	125 – UL 94-V0/0.4 mm				
Interrupting rating	10 kA at 600 V AC/DC					

¹⁾ Note:

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

Miniature Circuit Breakers

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



Selection and ordering data

I_n	Mounting width	DT	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				
A	MW ¹⁾							
Miniature circuit breakers "same polarity only" 1P, 240 V AC								
6	1		5SJ4106-6HG40		1	1 unit	005	0.160
10			5SJ4110-6HG40		1	1 unit	005	0.165
13			5SJ4113-6HG40		1	1 unit	005	0.152
15			5SJ4118-6HG40		1	1 unit	005	0.153
16			5SJ4116-6HG40		1	1 unit	005	0.149
20			5SJ4120-6HG40		1	1 unit	005	0.147
25			5SJ4125-6HG40		1	1 unit	005	0.166
30			5SJ4130-6HG40		1	1 unit	005	0.154
32			5SJ4132-6HG40		1	1 unit	005	0.164
35			5SJ4135-6HG40		1	1 unit	005	0.156
40			5SJ4140-6HG40		1	1 unit	005	0.156
45			5SJ4145-6HG40		1	1 unit	005	0.190
50			5SJ4150-6HG40		1	1 unit	005	0.159
60			5SJ4160-6HG40		1	1 unit	005	0.120
63			5SJ4163-6HG40		1	1 unit	005	0.162



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. 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				
A	MW ¹⁾											
Miniature circuit breakers "same polarity only" 1P, 240 V AC												
	0.3	1	5SJ4114-7HG40		005	5SJ4114-8HG40		1	1 unit	005	0.152	
	0.5		5SJ4105-7HG40		005	5SJ4105-8HG40		1	1 unit	005	0.152	
	1		5SJ4101-7HG40		005	5SJ4101-8HG40		1	1 unit	005	0.162	
	1.6		5SJ4115-7HG40		005	5SJ4115-8HG40		1	1 unit	005	0.151	
	2		5SJ4102-7HG40		005	5SJ4102-8HG40		1	1 unit	005	0.163	
	3		5SJ4103-7HG40		005	5SJ4103-8HG40		1	1 unit	005	0.155	
	4		5SJ4104-7HG40		005	5SJ4104-8HG40		1	1 unit	005	0.137	
	5		5SJ4111-7HG40		005	5SJ4111-8HG40		1	1 unit	005	0.161	
	6		5SJ4106-7HG40		005	5SJ4106-8HG40		1	1 unit	005	0.150	
	8		5SJ4108-7HG40		005	5SJ4108-8HG40		1	1 unit	005	0.164	
	10		5SJ4110-7HG40		005	5SJ4110-8HG40		1	1 unit	005	0.151	
	13		5SJ4113-7HG40		005	5SJ4113-8HG40		1	1 unit	005	0.147	
	15		5SJ4118-7HG40		005	5SJ4118-8HG40		1	1 unit	005	0.153	
	16		5SJ4116-7HG40		005	5SJ4116-8HG40		1	1 unit	005	0.159	
	20		5SJ4120-7HG40		005	5SJ4120-8HG40		1	1 unit	005	0.165	
	25		5SJ4125-7HG40		005	5SJ4125-8HG40		1	1 unit	005	0.161	
	30		5SJ4130-7HG40		005	5SJ4130-8HG40		1	1 unit	005	0.158	
	32		5SJ4132-7HG40		005	5SJ4132-8HG40		1	1 unit	005	0.168	
	35		5SJ4135-7HG40		005	5SJ4135-8HG40		1	1 unit	005	0.161	
	40		5SJ4140-7HG40		005	5SJ4140-8HG40		1	1 unit	005	0.165	
	45		5SJ4145-7HG40		005	5SJ4145-8HG40		1	1 unit	005	0.159	
	50		5SJ4150-7HG40		005	5SJ4150-8HG40		1	1 unit	005	0.162	
	60		5SJ4160-7HG40		005	5SJ4160-8HG40		1	1 unit	005	0.157	
	63		5SJ4163-7HG40		005	5SJ4163-8HG40		1	1 unit	005	0.157	
Miniature circuit breakers 1P, 240 V AC												
	0.3	1	5SJ4114-7HG41		005	5SJ4114-8HG41		1	1 unit	005	0.177	
	0.5		5SJ4105-7HG41		005	5SJ4105-8HG41		1	1 unit	005	0.184	
	1		5SJ4101-7HG41		005	5SJ4101-8HG41		1	1 unit	005	0.168	
	1.6		5SJ4115-7HG41		005	5SJ4115-8HG41		1	1 unit	005	0.155	
	2		5SJ4102-7HG41		005	5SJ4102-8HG41		1	1 unit	005	0.171	
	3		5SJ4103-7HG41		005	5SJ4103-8HG41		1	1 unit	005	0.171	
	4		5SJ4104-7HG41		005	5SJ4104-8HG41		1	1 unit	005	0.156	
	5		5SJ4111-7HG41		005	5SJ4111-8HG41		1	1 unit	005	0.169	
	6		5SJ4106-7HG41		005	5SJ4106-8HG41		1	1 unit	005	0.169	
	8		5SJ4108-7HG41		005	5SJ4108-8HG41		1	1 unit	005	0.166	
	10		5SJ4110-7HG41		005	5SJ4110-8HG41		1	1 unit	005	0.171	
	13		5SJ4113-7HG41		005	5SJ4113-8HG41		1	1 unit	005	0.174	
	15		5SJ4118-7HG41		005	5SJ4118-8HG41		1	1 unit	005	0.156	
	16		5SJ4116-7HG41		005	5SJ4116-8HG41		1	1 unit	005	0.175	
	20		5SJ4120-7HG41		005	5SJ4120-8HG41		1	1 unit	005	0.159	
	25		5SJ4125-7HG41		005	5SJ4125-8HG41		1	1 unit	005	0.177	
	30		5SJ4130-7HG41		005	5SJ4130-8HG41		1	1 unit	005	0.155	
	32		5SJ4132-7HG41		005	5SJ4132-8HG41		1	1 unit	005	0.155	
	35		5SJ4135-7HG41		005	5SJ4135-8HG41		1	1 unit	005	0.155	
	40		5SJ4140-7HG41		005	5SJ4140-8HG41		1	1 unit	005	0.175	
	45		5SJ4145-7HG41		005	5SJ4145-8HG41		1	1 unit	005	0.155	
	50		5SJ4150-7HG41		005	5SJ4150-8HG41		1	1 unit	005	0.162	
	60		5SJ4160-7HG41		005	5SJ4160-8HG41		1	1 unit	005	0.177	
	63		5SJ4163-7HG41		005	5SJ4163-8HG41		1	1 unit	005	0.155	

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 MW ¹⁾	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 DT				
Miniature circuit breakers 2P, 240 V AC												
0.3	2		5SJ4214-7HG41		005	5SJ4214-8HG41		1	1 unit	005	0.310	
0.5			5SJ4205-7HG41		005	5SJ4205-8HG41		1	1 unit	005	0.310	
1			5SJ4201-7HG41		005	5SJ4201-8HG41		1	1 unit	005	0.321	
1.6			5SJ4215-7HG41		005	5SJ4215-8HG41		1	1 unit	005	0.310	
2			5SJ4202-7HG41		005	5SJ4202-8HG41		1	1 unit	005	0.335	
3			5SJ4203-7HG41		005	5SJ4203-8HG41		1	1 unit	005	0.308	
4			5SJ4204-7HG41		005	5SJ4204-8HG41		1	1 unit	005	0.322	
5			5SJ4211-7HG41		005	5SJ4211-8HG41		1	1 unit	005	0.344	
6			5SJ4206-7HG41		005	5SJ4206-8HG41		1	1 unit	005	0.325	
8			5SJ4208-7HG41		005	5SJ4208-8HG41		1	1 unit	005	0.333	
10			5SJ4210-7HG41		005	5SJ4210-8HG41		1	1 unit	005	0.307	
13			5SJ4213-7HG41		005	5SJ4213-8HG41		1	1 unit	005	0.329	
15			5SJ4218-7HG41		005	5SJ4218-8HG41		1	1 unit	005	0.328	
16			5SJ4216-7HG41		005	5SJ4216-8HG41		1	1 unit	005	0.350	
20			5SJ4220-7HG41		005	5SJ4220-8HG41		1	1 unit	005	0.323	
25			5SJ4225-7HG41		005	5SJ4225-8HG41		1	1 unit	005	0.334	
30			5SJ4230-7HG41		005	5SJ4230-8HG41		1	1 unit	005	0.346	
32			5SJ4232-7HG41		005	5SJ4232-8HG41		1	1 unit	005	0.340	
35			5SJ4235-7HG41		005	5SJ4235-8HG41		1	1 unit	005	0.310	
40			5SJ4240-7HG41		005	5SJ4240-8HG41		1	1 unit	005	0.343	
45			5SJ4245-7HG41		005	5SJ4245-8HG41		1	1 unit	005	0.310	
50			5SJ4250-7HG41		005	5SJ4250-8HG41		1	1 unit	005	0.340	
60			5SJ4260-7HG41		005	5SJ4260-8HG41		1	1 unit	005	0.341	
63			5SJ4263-7HG41		005	5SJ4263-8HG41		1	1 unit	005	0.310	
Miniature circuit breakers 3P, 240 V AC												
0.3	3		5SJ4314-7HG41		005	5SJ4314-8HG41		1	1 unit	005	0.499	
0.5			5SJ4305-7HG41		005	5SJ4305-8HG41		1	1 unit	005	0.465	
1			5SJ4301-7HG41		005	5SJ4301-8HG41		1	1 unit	005	0.489	
1.6			5SJ4315-7HG41		005	5SJ4315-8HG41		1	1 unit	005	0.482	
2			5SJ4302-7HG41		005	5SJ4302-8HG41		1	1 unit	005	0.479	
3			5SJ4303-7HG41		005	5SJ4303-8HG41		1	1 unit	005	0.487	
4			5SJ4304-7HG41		005	5SJ4304-8HG41		1	1 unit	005	0.465	
5			5SJ4311-7HG41		005	5SJ4311-8HG41		1	1 unit	005	0.465	
6			5SJ4306-7HG41		005	5SJ4306-8HG41		1	1 unit	005	0.460	
8			5SJ4308-7HG41		005	5SJ4308-8HG41		1	1 unit	005	0.465	
10			5SJ4310-7HG41		005	5SJ4310-8HG41		1	1 unit	005	0.491	
13			5SJ4313-7HG41		005	5SJ4313-8HG41		1	1 unit	005	0.465	
15			5SJ4318-7HG41		005	5SJ4318-8HG41		1	1 unit	005	0.465	
16			5SJ4316-7HG41		005	5SJ4316-8HG41		1	1 unit	005	0.468	
20			5SJ4320-7HG41		005	5SJ4320-8HG41		1	1 unit	005	0.484	
25			5SJ4325-7HG41		005	5SJ4325-8HG41		1	1 unit	005	0.504	
30			5SJ4330-7HG41		005	5SJ4330-8HG41		1	1 unit	005	0.465	
32			5SJ4332-7HG41		005	5SJ4332-8HG41		1	1 unit	005	0.465	
35			5SJ4335-7HG41		005	5SJ4335-8HG41		1	1 unit	005	0.479	
40			5SJ4340-7HG41		005	5SJ4340-8HG41		1	1 unit	005	0.498	
45			5SJ4345-7HG41		005	5SJ4345-8HG41		1	1 unit	005	0.500	
50			5SJ4350-7HG41		005	5SJ4350-8HG41		1	1 unit	005	0.523	
60			5SJ4360-7HG41		005	5SJ4360-8HG41		1	1 unit	005	0.506	
63			5SJ4363-7HG41		005	5SJ4363-8HG41		1	1 unit	005	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 MW ¹⁾	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 DT				
Miniature circuit breakers 1P, 480Y/277 V AC												
0.3	1		5SJ4114-7HG42		005	5SJ4114-8HG42		1	1 unit	005	0.155	
0.5			5SJ4105-7HG42		005	5SJ4105-8HG42		1	1 unit	005	0.157	
1			5SJ4101-7HG42		005	5SJ4101-8HG42		1	1 unit	005	0.179	
1.6			5SJ4115-7HG42		005	5SJ4115-8HG42		1	1 unit	005	0.155	
2			5SJ4102-7HG42		005	5SJ4102-8HG42		1	1 unit	005	0.175	
3			5SJ4103-7HG42		005	5SJ4103-8HG42		1	1 unit	005	0.173	
4			5SJ4104-7HG42		005	5SJ4104-8HG42		1	1 unit	005	0.175	
5			5SJ4111-7HG42		005	5SJ4111-8HG42		1	1 unit	005	0.171	
6			5SJ4106-7HG42		005	5SJ4106-8HG42		1	1 unit	005	0.175	
8			5SJ4108-7HG42		005	5SJ4108-8HG42		1	1 unit	005	0.155	
10			5SJ4110-7HG42		005	5SJ4110-8HG42		1	1 unit	005	0.178	
13			5SJ4113-7HG42		005	5SJ4113-8HG42		1	1 unit	005	0.155	
15			5SJ4118-7HG42		005	5SJ4118-8HG42		1	1 unit	005	0.175	
16			5SJ4116-7HG42		005	5SJ4116-8HG42		1	1 unit	005	0.173	
20			5SJ4120-7HG42		005	5SJ4120-8HG42		1	1 unit	005	0.174	
25			5SJ4125-7HG42		005	5SJ4125-8HG42		1	1 unit	005	0.155	
30			5SJ4130-7HG42		005	5SJ4130-8HG42		1	1 unit	005	0.182	
32			5SJ4132-7HG42		005	5SJ4132-8HG42		1	1 unit	005	0.155	
35			5SJ4135-7HG42		005	--						
40			5SJ4140-7HG42		005	--						
Miniature circuit breakers 2P, 480Y/277 V AC												
0.3	2		5SJ4214-7HG42		005	5SJ4214-8HG42		1	1 unit	005	0.346	
0.5			5SJ4205-7HG42		005	5SJ4205-8HG42		1	1 unit	005	0.342	
1			5SJ4201-7HG42		005	5SJ4201-8HG42		1	1 unit	005	0.338	
1.6			5SJ4215-7HG42		005	5SJ4215-8HG42		1	1 unit	005	0.335	
2			5SJ4202-7HG42		005	5SJ4202-8HG42		1	1 unit	005	0.353	
3			5SJ4203-7HG42		005	5SJ4203-8HG42		1	1 unit	005	0.330	
4			5SJ4204-7HG42		005	5SJ4204-8HG42		1	1 unit	005	0.335	
5			5SJ4211-7HG42		005	5SJ4211-8HG42		1	1 unit	005	0.330	
6			5SJ4206-7HG42		005	5SJ4206-8HG42		1	1 unit	005	0.334	
8			5SJ4208-7HG42		005	5SJ4208-8HG42		1	1 unit	005	0.338	
10			5SJ4210-7HG42		005	5SJ4210-8HG42		1	1 unit	005	0.332	
13			5SJ4213-7HG42		005	5SJ4213-8HG42		1	1 unit	005	0.334	
15			5SJ4218-7HG42		005	5SJ4218-8HG42		1	1 unit	005	0.320	
16			5SJ4216-7HG42		005	5SJ4216-8HG42		1	1 unit	005	0.334	
20			5SJ4220-7HG42		005	5SJ4220-8HG42		1	1 unit	005	0.342	
25			5SJ4225-7HG42		005	5SJ4225-8HG42		1	1 unit	005	0.338	
30			5SJ4230-7HG42		005	5SJ4230-8HG42		1	1 unit	005	0.342	
32			5SJ4232-7HG42		005	5SJ4232-8HG42		1	1 unit	005	0.324	
35			5SJ4235-7HG42		005	--						
40			5SJ4240-7HG42		005	--						

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 MW ¹⁾	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 DT				
Miniature circuit breakers												
3P, 480Y/277 V AC												
0.3	3		5SJ4314-7HG42		005	5SJ4314-8HG42		1	1 unit	005	0.465	
0.5			5SJ4305-7HG42		005	5SJ4305-8HG42		1	1 unit	005	0.529	
1			5SJ4301-7HG42		005	5SJ4301-8HG42		1	1 unit	005	0.507	
1.6			5SJ4315-7HG42		005	5SJ4315-8HG42		1	1 unit	005	0.495	
2			5SJ4302-7HG42		005	5SJ4302-8HG42		1	1 unit	005	0.511	
3			5SJ4303-7HG42		005	5SJ4303-8HG42		1	1 unit	005	0.479	
4			5SJ4304-7HG42		005	5SJ4304-8HG42		1	1 unit	005	0.469	
5			5SJ4311-7HG42		005	5SJ4311-8HG42		1	1 unit	005	0.485	
6			5SJ4306-7HG42		005	5SJ4306-8HG42		1	1 unit	005	0.491	
8			5SJ4308-7HG42		005	5SJ4308-8HG42		1	1 unit	005	0.500	
10			5SJ4310-7HG42		005	5SJ4310-8HG42		1	1 unit	005	0.497	
13			5SJ4313-7HG42		005	5SJ4313-8HG42		1	1 unit	005	0.477	
15			5SJ4318-7HG42		005	5SJ4318-8HG42		1	1 unit	005	0.465	
16			5SJ4316-7HG42		005	5SJ4316-8HG42		1	1 unit	005	0.497	
20			5SJ4320-7HG42		005	5SJ4320-8HG42		1	1 unit	005	0.498	
25			5SJ4325-7HG42		005	5SJ4325-8HG42		1	1 unit	005	0.502	
30			5SJ4330-7HG42		005	5SJ4330-8HG42		1	1 unit	005	0.514	
32			5SJ4332-7HG42		005	5SJ4332-8HG42		1	1 unit	005	0.511	
35			5SJ4335-7HG42		005	--						
40			5SJ4340-7HG42		005	--						

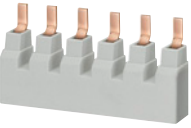
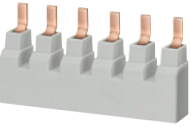






		Mounting width MW ¹⁾	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Auxiliary switches (AS) acc. to UL 489									
	1 NO + 1 NC	0.5		5ST3010-0HG		1	1 unit	005	0.085
	2 NO			5ST3011-0HG		1	1 unit	005	0.086
	2 NC			5ST3012-0HG		1	1 unit	005	0.064
Fault signal contacts (FC) acc. to UL 489									
	1 NO + 1 NC	0.5		5ST3020-0HG		1	1 unit	005	0.085
	2 NO			5ST3021-0HG		1	1 unit	005	0.085
	2 NC			5ST3022-0HG		1	1 unit	005	0.083
Shunt trips (ST) acc. to UL 489									
	110 ... 480 V AC	1		5ST3030-0HG		1	1 unit	005	0.117
	24 ... 60 V AC/DC		▶	5ST3031-0HG		1	1 unit	005	0.118

¹⁾ 1 MW (modular width) = 18 mm.

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

Accessories




	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
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	005	0.058
	For 12 MCBs 1P		205	5ST3663-1HG		1	10 units	005	0.115
	For 18 MCBs 1P		310	5ST3663-2HG		1	10 units	005	0.173
	Two-phase								
	For 3 MCBs 2P	1	100	5ST3664-0HG		1	10 units	005	0.065
	For 6 MCBs 2P		205	5ST3664-1HG		1	10 units	005	0.138
	For 9 MCBs 2P		310	5ST3664-2HG		1	10 units	005	0.212
	Three-phase								
For 2 MCBs 3P	1	100	5ST3665-0HG		1	10 units	005	0.069	
For 4 MCBs 3P		205	5ST3665-1HG		1	10 units	005	0.156	
For 6 MCBs 3P		310	5ST3665-2HG		1	10 units	005	0.249	
Busbars acc. to UL 489 specially for 5SJ4...-HG.. miniature circuit breakers, can be cut, UL File E315616 NEW									
	Single-phase								
	For MCBs 1P	1	1016	5ST3701-3HG		1	1 unit	005	0.820
	For MCBs 1P with AS or FC		1016	5ST3703-3HG		1	1 unit	005	0.710
	Two-phase								
	For MCBs 2P	1	1016	5ST3705-3HG		1	1 unit	005	1.010
	For MCBs 2P with AS or FC		1016	5ST3707-3HG		1	1 unit	005	0.990
	Three-phase								
	For MCBs 3P	1	1016	5ST3710-3HG		1	1 unit	005	1.230
	For MCBs 3P with AS or FC		1016	5ST3712-3HG		1	1 unit	005	1.170
For MCBs 3x (P with AS or FC)		1016	5ST3714-3HG		1	1 unit	005	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	005	0.036
	• Max. 35 mm ²								
	Infeed at the miniature circuit breaker NEW								
	• Specially for 5SJ4...-HG.. miniature circuit breakers			5ST3770-3HG		1	10 units	005	0.036
	• 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	005	0.034
End cap for 5ST37...-3HG, can be cut acc. to UL 489 NEW									
	End cap								
	For 1-, 2-, 3-phase busbars			5ST3750-3HG		1	10 units	005	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

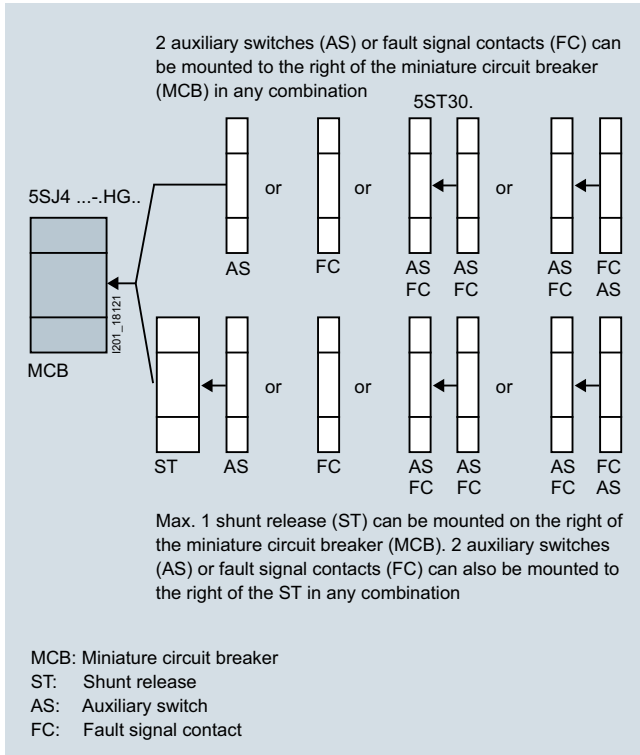
	Pin spacing	Length	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	MW ¹⁾	mm							
Touch protection covers for busbars acc. to UL 489									
	Touch protection covers 3 × 1 pin			5ST3666-1HG		1	10 units	005	0.003
	Touch protection covers <i>NEW</i> • For 5ST337...-3HG busbars that can be cut only • 3 × 1 pin			5ST3655-3HG		1	10 units	005	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	020	0.012
Padlocks									
	For 5ST3801 handle locking device			5ST3802		1	1 unit	020	0.040

¹⁾ 1 MW (modular width) = 18 mm.

More information

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

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



Miniature Circuit Breakers

SHU 5SP3 main miniature circuit breakers

Overview

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

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

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

Benefits

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

Technical specifications

		5SP37..., 5SP37...-1	5SP37...-2, 5SP37...-2KK0.	5SP38...-2
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	

SHU 5SP3 main miniature circuit breakers

Selection and ordering data

I_n	Mounting width DT MW ¹⁾	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. 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	019	0.483
20		5SP3720-2KK01		1	1 unit	019	0.483
25		5SP3725-2KK01		1	1 unit	019	0.400
35		5SP3735-2KK01		1	1 unit	019	0.511
40		5SP3740-2KK01		1	1 unit	019	0.495
50		5SP3750-2KK01		1	1 unit	019	0.511
63		5SP3763-2KK01		1	1 unit	019	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	019	0.473
20		5SP3720-2KK02		1	1 unit	019	0.474
25		5SP3725-2KK02		1	1 unit	019	0.474
35		5SP3735-2KK02		1	1 unit	019	0.509
40		5SP3740-2KK02		1	1 unit	019	0.476
50		5SP3750-2KK02		1	1 unit	019	0.483
63		5SP3763-2KK02		1	1 unit	019	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	019	0.468
20		5SP3720-2KK03		1	1 unit	019	0.466
25		5SP3725-2KK03		1	1 unit	019	0.472
35		5SP3735-2KK03		1	1 unit	019	0.489
40		5SP3740-2KK03		1	1 unit	019	0.469
50		5SP3750-2KK03		1	1 unit	019	0.488
63		5SP3763-2KK03		1	1 unit	019	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	019	1.270
20		5SP3720-2		1	1 set	019	1.310
25		5SP3725-2		1	1 set	019	1.305
35		5SP3735-2		1	1 set	019	1.341
40		5SP3740-2		1	1 set	019	1.279
50		5SP3750-2		1	1 set	019	1.309
63		5SP3763-2		1	1 set	019	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	019	1.256
20		5SP3820-2		1	1 unit	019	1.281
25		5SP3825-2		1	1 unit	019	1.256
35		5SP3835-2		1	1 unit	019	1.277
40		5SP3840-2		1	1 unit	019	1.284
50		5SP3850-2		1	1 unit	019	1.262
63		5SP3863-2		1	1 unit	019	1.303

¹⁾ 1 MW (modular width) = 18 mm.







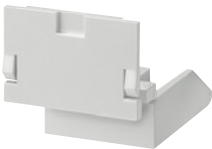
Miniature Circuit Breakers

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	019	0.350
	20		5SP3720-3		1	1 unit	019	0.350
	25		5SP3725-3		1	1 unit	019	0.350
	35		5SP3735-3		1	1 unit	019	0.350
	40		5SP3740-3		1	1 unit	019	0.350
	50		5SP3750-3		1	1 unit	019	0.350
	63		5SP3763-3		1	1 unit	019	0.350
Main miniature circuit breakers, 3 x 1P								
	16	4.5	5SP3816-3		1	1 unit	019	1.050
	20		5SP3820-3		1	1 unit	019	1.050
	25		5SP3825-3		1	1 unit	019	1.050
	35		5SP3835-3		1	1 unit	019	1.050
	40		5SP3840-3		1	1 unit	019	1.050
	50		5SP3850-3		1	1 unit	019	1.050
	63		5SP3863-3		1	1 unit	019	1.050
Main miniature circuit breakers, 2P								
	16	3	5SP3216-3		1	1 unit	019	0.700
	20		5SP3220-3		1	1 unit	019	0.700
	25		5SP3225-3		1	1 unit	019	0.700
	35		5SP3235-3		1	1 unit	019	0.700
	40		5SP3240-3		1	1 unit	019	0.700
	50		5SP3250-3		1	1 unit	019	0.700
	63		5SP3263-3		1	1 unit	019	0.700
Main miniature circuit breakers, 3P								
	16	4.5	5SP3316-3		1	1 unit	019	1.050
	20		5SP3320-3		1	1 unit	019	1.050
	25		5SP3325-3		1	1 unit	019	1.050
	35		5SP3335-3		1	1 unit	019	1.050
	40		5SP3340-3		1	1 unit	019	1.050
	50		5SP3350-3		1	1 unit	019	1.050
	63		5SP3363-3		1	1 unit	019	1.050
Main miniature circuit breakers, 4P								
	16	6	5SP3416-3		1	1 unit	019	1.400
	20		5SP3420-3		1	1 unit	019	1.400
	25		5SP3425-3		1	1 unit	019	1.400
	35		5SP3435-3		1	1 unit	019	1.400
	40		5SP3440-3		1	1 unit	019	1.400
	50		5SP3450-3		1	1 unit	019	1.400
	63		5SP3463-3		1	1 unit	019	1.400

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. kg
A	MW ¹⁾							
	Main miniature circuit breakers, 1P For mounting on standard mounting rail, busbar (spacing: 40 mm, with 5ST1 busbar adapter), or for screw fixing							
80			5SP3780		1	1 unit	019	0.492
100			5SP3791		1	1 unit	019	0.487
	Main miniature circuit breakers, 3 x 1P Premounted on 5ST1324 busbar adapter; can be clipped onto busbars (spacing: 40 mm); including three 5ST1323 transparent operating protective covers							
80		6	5SP3780-1		1	1 set	019	1.785
100			5SP3791-1		1	1 set	019	1.689
	Mounting plates For mounting on standard mounting rails according to EN 50022 For 1 or 2 standard mounting rails, universal application, tier spacing 125 mm		▶	5ST1322	1	10 units	019	0.030
	Busbar adapters for 5SP37.. and 5SP37..-1 Suitable for busbar spacing 40 mm can be equipped with 3 selective main miniature circuit breakers			5ST1328	1	1 unit	019	0.250
	Breaker blocking covers for 5SP37.. and 5SP37..-1 To prevent manual switching OFF			5ST1318	1	10 units	019	0.003
	Operating protective covers, transparent, for 5SP37.. and 5SP37..-1 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 			5ST1323	1	3 units	019	0.011
	Terminal covers for 5SP37.. and 5SP37..-1 2 units required per device Terminal covers in compliance with cladding dimensions acc. to DIN 43880			5ST1316	1	6 units	019	0.004

¹⁾ 1 MW (modular width) = 18 mm.

Miniature Circuit Breakers

Notes

3