

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.

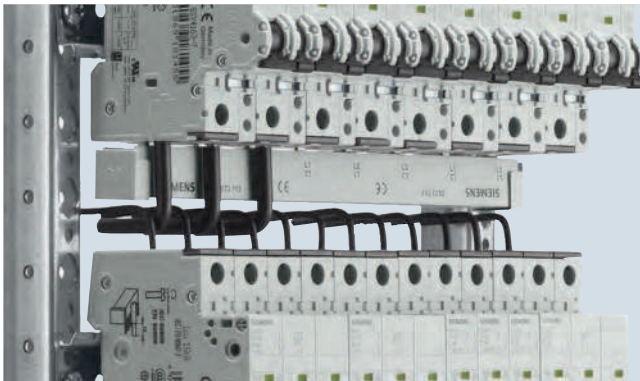
No further need for time-consuming tasks, such as cutting, cutting to length, deburring, cleaning of cut surfaces and mounting of end caps.

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

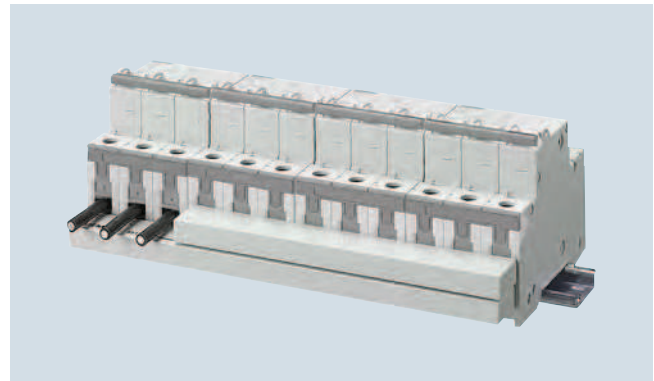
For further information on the bus-mounting of miniature circuit breakers with residual current operated circuit breakers, [please refer to the chapter "Residual Current Protective Devices/ Arc Fault Detection Devices \(AFDDs\)"](#).

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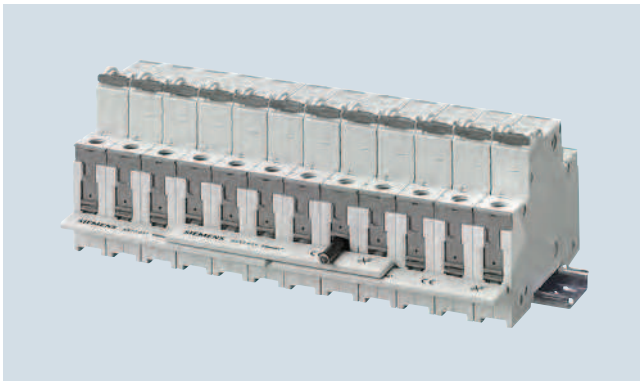
Benefits



- 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

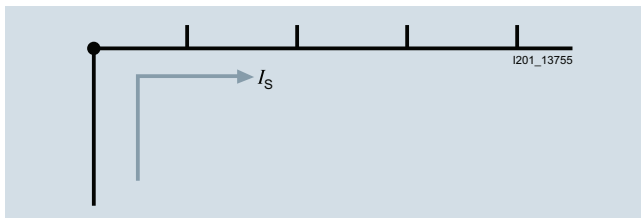


- The fact that the connection of the conductor is always clearly visible facilitates cable entry of all pole types and considerably reduces mounting times

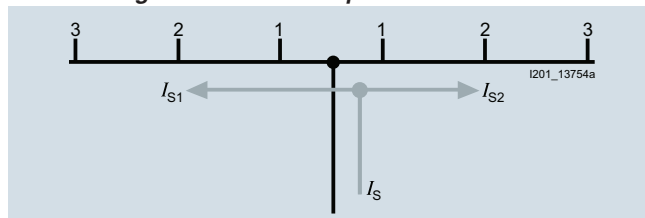
Technical specifications

		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




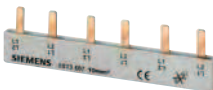
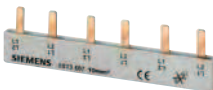
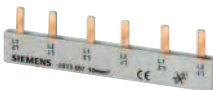
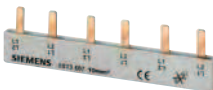
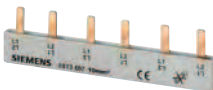
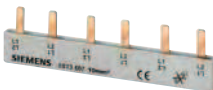




The sum of the outgoing current per branch (1, 2, 3 ... n) must not be greater than the max. busbar current I_S /phase.

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Selection and ordering data

	Pin spacing	Length	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	MW ¹⁾	mm							kg
5ST36 busbar systems, 10 mm², for miniature circuit breakers, fixed lengths, cannot be cut, fully insulated									
	Single-phase								
	For 2 MCBs 1P	1	33	5ST3600		1	10 units	1AD	0.008
	For 6 MCBs 1P		105	5ST3601		1	10 units	1AD	0.024
	For 12 MCBs 1P		210	5ST3602		1	10 units	1AD	0.047
	Single-phase, for MCBs with AS or FC								
	For 2 MCBs 1P	1.5	40	5ST3603		1	10 units	1AD	0.010
	For 6 MCBs 1P		156.5	5ST3604		1	10 units	1AD	0.033
	For 9 MCBs 1P		237	5ST3605		1	10 units	1AD	0.050
	Two-phase								
	For 2 MCBs 2P	1	75.5	5ST3606		1	10 units	1AD	0.018
	For 3 MCBs 2P		105	5ST3607		1	10 units	1AD	0.028
	For 6 MCBs 2P		210	5ST3608		1	10 units	1AD	0.063
	Three-phase								
	For 2 MCBs 3P	1	102	5ST3613		1	10 units	1AD	0.033
	For 3 MCBs 3P		157.5	5ST3614		1	10 units	1AD	0.055
	For 4 MCBs 3P		210	5ST3615		1	10 units	1AD	0.079
	Three-phase, for MCBs with AS or FC								
	For 2 MCBs 3P	1+1+1.5	115	5ST3616		1	10 units	1AD	0.037
	For 4 MCBs 3P		237	5ST3617		1	10 units	1AD	0.090
	For 6 MCBs 1P	1.5	125	5ST3618		1	10 units	1AD	0.046
	For 9 MCBs 1P		229	5ST3620		1	10 units	1AD	0.079
	Three-phase								
	For 1 RCCB 4P N right and 8 MCBs 1P	1	210	5ST3624		1	10 units	1AD	0.078
	For 1 RCCB 4P N left and 8 MCBs 1P	1	192	5ST3667		1	10 units	1AD	0.070
	Four-phase								
	For 2 MCBs 4P or 3P+N	1	145	5ST3621		1	10 units	1AD	0.054
	For 3 MCBs 4P or 3P+N		215	5ST3622		1	10 units	1AD	0.092
	For 6 MCBs 2P or 1P+N		215	5ST3623		1	10 units	1AD	0.087
5ST36 busbars, 16 mm², for miniature circuit breakers, fixed lengths, cannot be cut, fully insulated									
	Single-phase								
	For 2 MCBs 1P	1	33	5ST3630		1	10 units	1AD	0.009
	For 6 MCBs 1P		105	5ST3631		1	10 units	1AD	0.026
	For 12 MCBs 1P		210	5ST3632		1	10 units	1AD	0.052
	Single-phase, for MCBs with AS or FC								
	For 2 MCBs 1P	1.5	40	5ST3633		1	10 units	1AD	0.011
	For 6 MCBs 1P		156.5	5ST3634		1	10 units	1AD	0.036
	For 9 MCBs 1P		237	5ST3635		1	10 units	1AD	0.055
	Two-phase								
	For 2 MCBs 2P	1	75.5	5ST3636		1	10 units	1AD	0.026
	For 3 MCBs 2P		105	5ST3637		1	10 units	1AD	0.042
	For 6 MCBs 2P		210	5ST3638		1	10 units	1AD	0.089
	Two-phase For MCBs with AS or FC								
	For 2 MCBs 2P	1 + 1.5	75.5	5ST3640		1	10 units	1AD	0.029
	For 3 MCBs 2P		120.5	5ST3641		1	10 units	1AD	0.048
	For 5 MCBs 2P		210	5ST3642		1	10 units	1AD	0.086

¹⁾ 1 MW (modular width) = 18 mm.

	Pin spacing	Length	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	MW ¹⁾	mm							
5ST36 busbars, 16 mm², for miniature circuit breakers, fixed lengths, cannot be cut, fully insulated									
Three-phase									
For 2 MCBs 3P	1	102.5		5ST3643		1	10 units	1AD	0.048
For 3 MCBs 3P		157.5		5ST3644		1	10 units	1AD	0.082
For 4 MCBs 3P		210	▶	5ST3645		1	10 units	1AD	0.114
Three-phase, for MCBs with AS or FC									
For 2 MCBs 3P	1+1+1.5	115		5ST3646		1	10 units	1AD	0.051
For 4 MCBs 3P		237		5ST3647		1	10 units	1AD	0.132
For 6 MCBs 1P	1.5	156		5ST3648		1	10 units	1AD	0.067
For 9 MCBs 1P		245		5ST3650		1	10 units	1AD	0.110
Three-phase,									
For 1 RCCB 4P N right and 8 MCBs 1P	1	210		5ST3654		1	10 units	1AD	0.113
For 1 RCCB 4P N left and 8 MCBs 1P	1	210		5ST3668		1	10 units	1AD	0.100
Four-phase									
For 2 MCBs 4P or 3P+N	1			5ST3651		1	10 units	1AD	0.080
For 3 MCBs 4P or 3P+N				5ST3652		1	10 units	1AD	0.137
For 6 MCBs 2P or 1P+N				5ST3653		1	10 units	1AD	0.126
Touch protection									
For free connections, yellow (RAL 1004) 5 x 1 pin			▶	5ST3655		1	10 units	1AD	0.008
10 mm²				5ST3656		1	1 set	1AD	5.348
20 x 5ST3613 + 10 x 5ST3614 + 50 x 5ST3615 + 50 x 5ST3655									
16 mm²				5ST3657		1	1 set	1AD	7.765
20 x 5ST3643 + 10 x 5ST3644 + 50 x 5ST3645 + 50 x 5ST3655									
5ST37 busbar system, 10 mm², 12 MW for miniature circuit breakers, can be cut, with end caps									
Single-phase, angled									
For 12 MCBs 1P	1	214		5ST3730		1	1 unit	1AD	0.033
For 9 MCBs 1P with AS or FC	1.5			5ST3732		1	1 unit	1AD	0.030
Two-phase									
For 6 MCBs 2P	1			5ST3734		1	1 unit	1AD	0.072
For 4 MCBs 2P with AS or FC	1+1.5			5ST3736		1	1 unit	1AD	0.071
Three-phase									
For 4 MCBs 3P	1		▶	5ST3738		1	1 unit	1AD	0.086
For 3 MCBs 3P with AS or FC	1+1+1.5			5ST3741		1	1 unit	1AD	0.074
For 3 MCBs 1P with AS or FC	1.5			5ST3743		1	1 unit	1AD	0.075
Four-phase									
For 3 MCBs 4P or 3P+N	1			5ST3745		1	1 unit	1AD	0.108
5ST37 busbar system, 10 mm², 56 MW for miniature circuit breakers, can be cut, without end caps									
Single-phase, angled									
For MCBs 1P	1	1016		5ST3731		1	1 unit	1AD	0.153
For MCBs 1P with AS or FC	1.5			5ST3733		1	1 unit	1AD	0.157
Two-phase									
For MCBs 1P and UR or AR	2			5ST3735-2		1	1 unit	1AD	0.505
For MCBs 2P	1			5ST3735		1	1 unit	1AD	0.343
For MCBs 2P with AS or FC	1+1.5			5ST3737		1	1 unit	1AD	0.327
Three-phase									
For MCBs 3P	1		▶	5ST3740		1	1 unit	1AD	0.430
For MCBs 3P with AS or FC	1+1+1.5			5ST3742		1	1 unit	1AD	0.421
For MCBs 1P with AS or FC	1.5			5ST3744		1	1 unit	1AD	0.420
Four-phase									
For MCBs 4P or 3P+N	1			5ST3746		1	1 unit	1AD	0.600
For MCBs 2P with AS or FC and RCBs 1P+N with AS or FC	1+1.5			5ST3746-2		1	1 unit	1AD	0.505

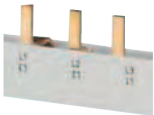
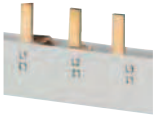

1) 1 MW (modular width) = 18 mm.

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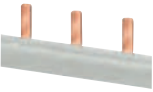
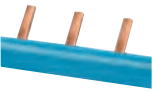
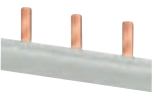
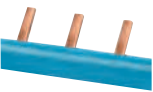


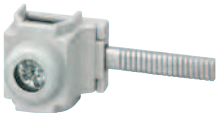
Busbars

5ST standard busbars

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	Pin spacing	Length	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	MW ¹⁾	mm							kg
5ST37 busbar system, 16 mm², 12 MW for miniature circuit breakers, can be cut, with end caps									
	Single-phase, angled								
	For MCBs 1P	1	214	▶ 5ST3700		1	1 unit	1AD	0.042
	For MCBs 1P with AS or FC	1.5		▶ 5ST3702		1	1 unit	1AD	0.040
	Two-phase								
	For MCBs 2P	1		▶ 5ST3704		1	1 unit	1AD	0.097
	For MCBs 2P with AS or FC	1+1.5		▶ 5ST3706		1	1 unit	1AD	0.090
	Three-phase								
	For MCBs 3P	1		▶ 5ST3708		1	1 unit	1AD	0.116
	For MCBs 3P with AS or FC	1+1+1.5		▶ 5ST3711		1	1 unit	1AD	0.100
	For MCBs 1P with AS or FC	1.5		▶ 5ST3713		1	1 unit	1AD	0.102
Four-phase									
For MCBs 4P or 3P+N	1		▶ 5ST3715		1	1 unit	1AD	0.152	
5ST37 busbar system, 16 mm², 56 MW for miniature circuit breakers, can be cut, without end caps									
	Single-phase, angled								
	For MCBs 1P	1	1016	▶ 5ST3701		1	1 unit	1AD	0.190
	For MCBs 1P with AS or FC	1.5		▶ 5ST3703		1	1 unit	1AD	0.185
	Two-phase								
	For MCBs 2P	1		▶ 5ST3705		1	1 unit	1AD	0.452
	For MCBs 2P with AS or FC	1+1.5		▶ 5ST3707		1	1 unit	1AD	0.446
	Three-phase								
	For MCBs 3P	1		▶ 5ST3710		1	1 unit	1AD	0.610
	For MCBs 3P with AS or FC	1+1+1.5		▶ 5ST3712		1	1 unit	1AD	0.580
	For MCBs 1P with AS or FC	1.5		▶ 5ST3714		1	1 unit	1AD	0.540
Four-phase									
For MCBs 4P or 3P+N	1		▶ 5ST3716		1	1 unit	1AD	0.798	
5ST37 busbar system, 10 mm², 56 MW, can be cut, without end caps, with touch protection									
Four-phase									
For MCBs 2P and RCBOs 1P+N	1	1000	▶ 5ST3770-2		1	10 units	1AD	0.578	
5ST37 busbar system, 16 mm², 56 MW, can be cut, without end caps, with touch protection									
Four-phase									
For MCBs 2P and RCBOs 1P+N	1	1000	▶ 5ST3770-3		1	10 units	1AD	0.779	
5ST37 busbar system, 10 mm², 16 MW, can be cut, with end caps, with touch protection									
Four-phase									
For RCCBs 4P, N right and 6 MCBs 1P+N	1	292	▶ 5ST3770-4		1	10 units	1AD	0.153	
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	1AD	0.203	
End caps for 5ST37, can be cut									
	For single-phase busbars		▶ 5ST3748		1	10 units	1AD	0.001	
	For two-phase and three-phase busbars		▶ 5ST3750		1	10 units	1AD	0.002	
	For four-phase busbars		▶ 5ST3718		1	10 units	1AD	0.001	

¹⁾ 1 MW (modular width) = 18 mm.

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	MW ¹⁾	mm							
5ST37 busbar system, 10 mm², 12 MW for 1+N miniature circuit breakers in 1 MW of the compact range, can be cut, with end caps									
	Single-phase								
	For 12 MCBs 1+N, gray	1	216	5ST3762		1	10 units	1AD	0.034
	For 12 MCBs 1+N, blue		1	5ST3763		1	10 units	1AD	0.034
	5ST37 busbar system, 10 mm², 56 MW for 1+N miniature circuit breakers in 1 MW of the compact range, can be cut, without end caps								
	Single-phase								
	For MCBs 1+N, gray	1	1016	5ST3764		1	10 units	1AD	0.134
	For MCBs 1+N, blue		1	5ST3765		1	10 units	1AD	0.134
	End caps for 5ST376								
	1 set comprises a right and a left cap								
	Gray			5ST3766		1	10 sets	1AD	0.001
	Blue								
				5ST3767		1	10 sets	1AD	0.001
Terminals for 5ST376									
	Terminal version S								
	For conductors up to 25 mm ²			5ST3768		1	25 units	1AD	0.012

¹⁾ 1 MW (modular width) = 18 mm.

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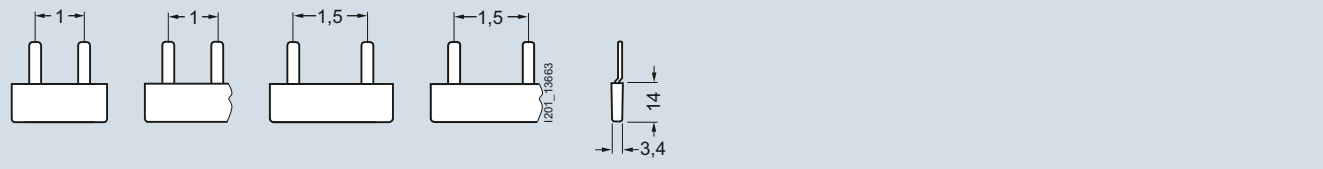
Dimensional drawings

5ST36

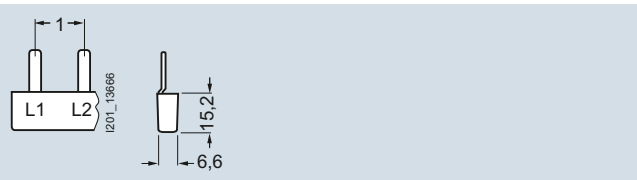
Pin spacing in MW (modular width; 1 MW = 18 mm)

Dimensions of side view in mm (approx.)

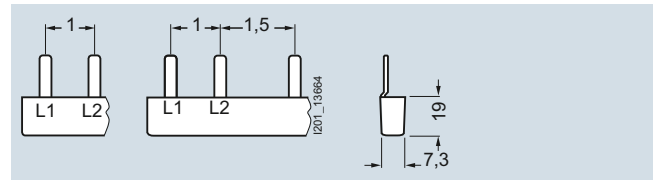
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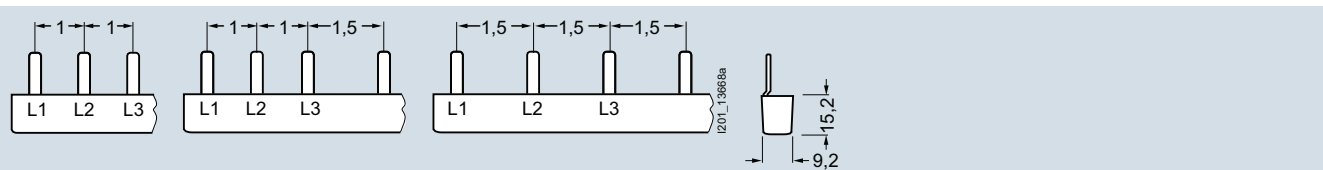
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5ST3635



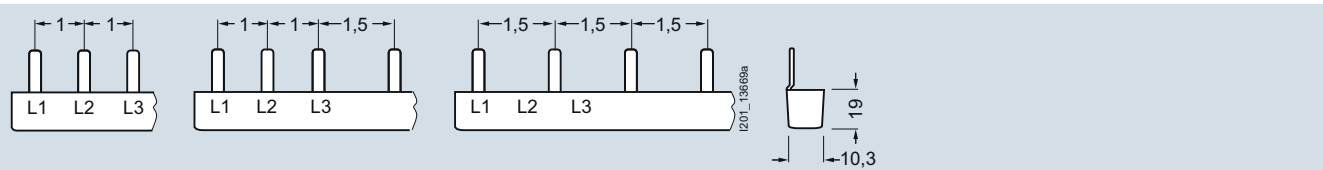
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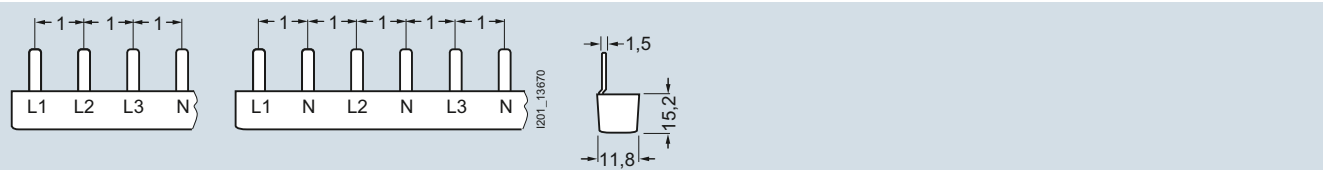
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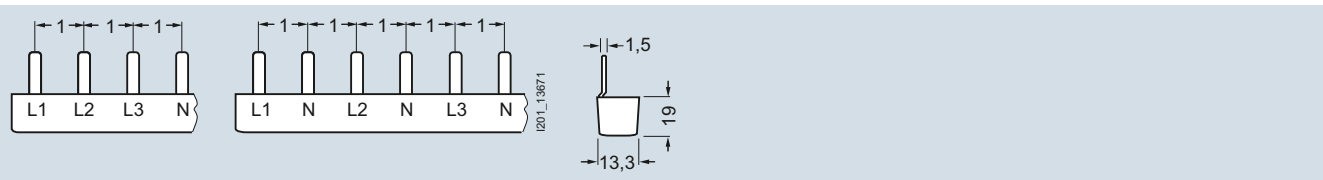
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- 5ST3618
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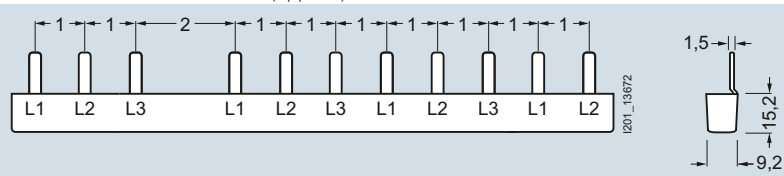


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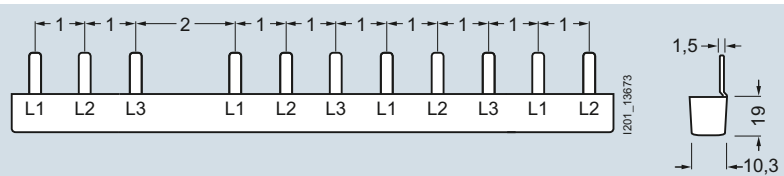
5ST36

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

Dimensions of side view in mm (approx.)



5ST3624

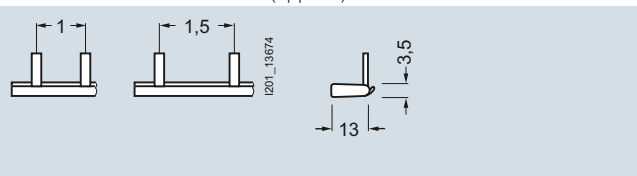


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5ST37

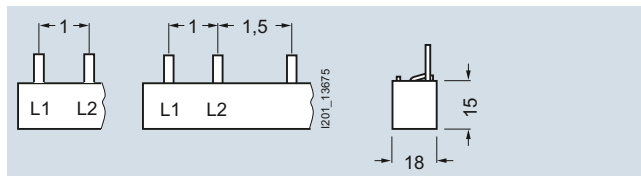
Pin spacing in MW (modular width; 1 MW = 18 mm)

Dimensions of side view in mm (approx.)



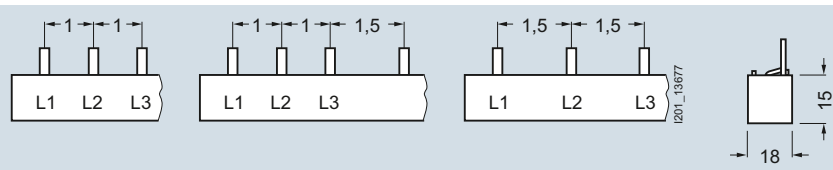
- 5ST3700 5ST3702
- 5ST3701 5ST3703
- 5ST3730 5ST3732
- 5ST3731 5ST3733

Single-phase Single-phase

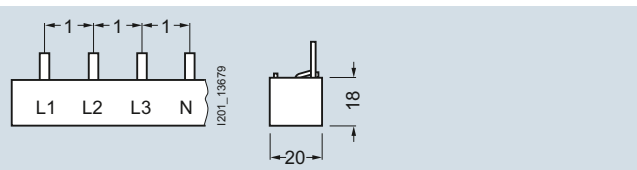


- 5ST3704 5ST3706
- 5ST3705 5ST3707
- 5ST3734 5ST3736
- 5ST3735 5ST3737

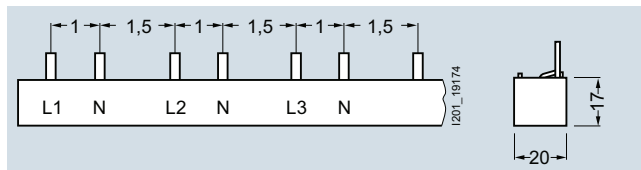
Two-phase Two-phase



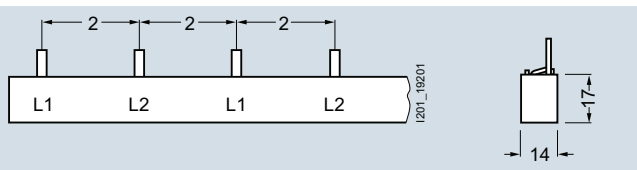
- 5ST3708 5ST3711 5ST3713
- 5ST3710 5ST3712 5ST3714
- 5ST3738 5ST3741 5ST3743
- 5ST3740 5ST3742 5ST3744



- 5ST3715
- 5ST3716
- 5ST3745
- 5ST3746



5ST3746-2



5ST3735-2

Miniature Circuit Breakers

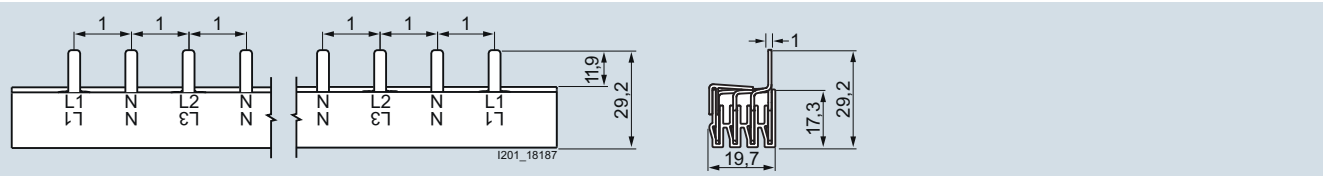
Busbars

5ST standard busbars

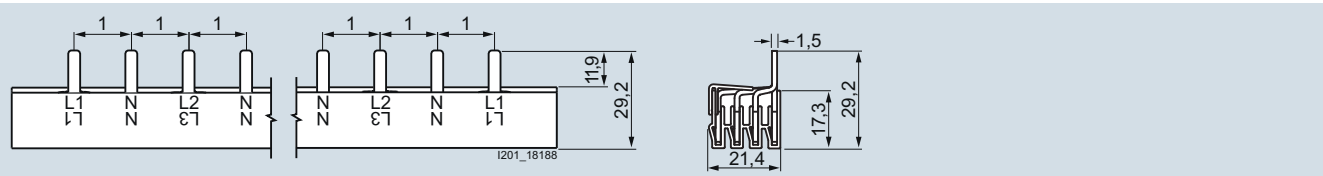
5ST37 Pin spacing in MW (modular width; 1 MW = 18 mm)

Dimensions of side view in mm (approx.)

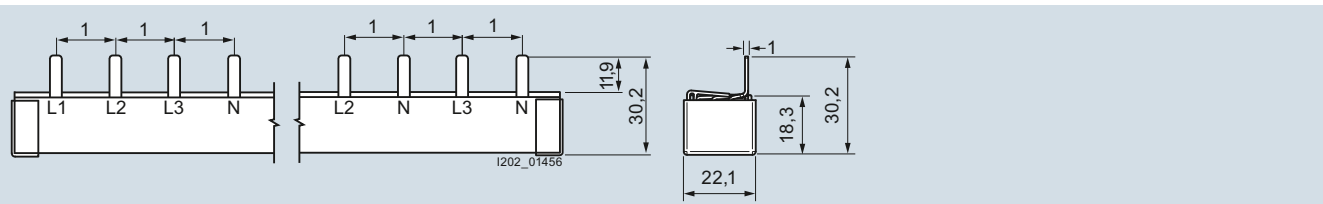
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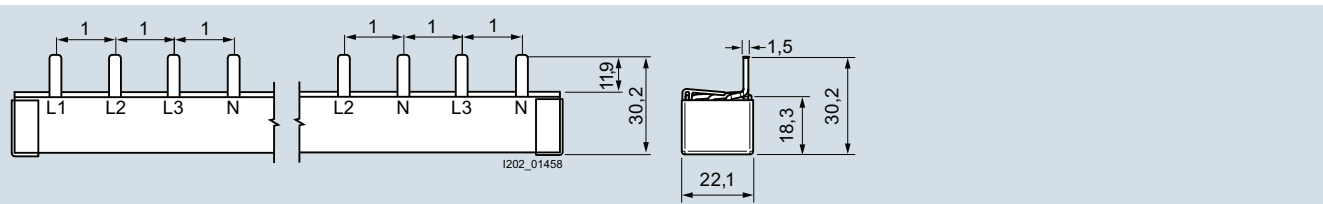
5ST3770-2



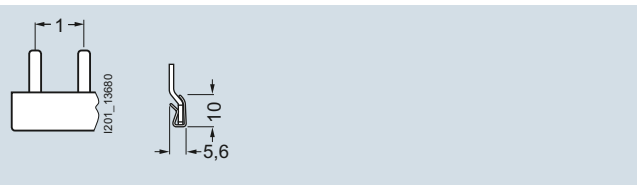
5ST3770-3



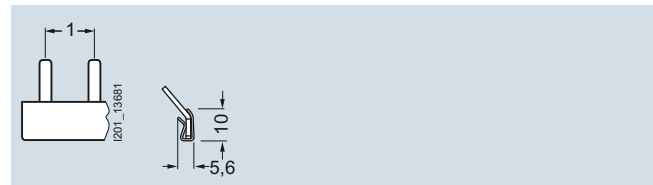
5ST3770-4



5ST3770-5



5ST3762
5ST3764



5ST3763
5ST3765

Overview

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

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

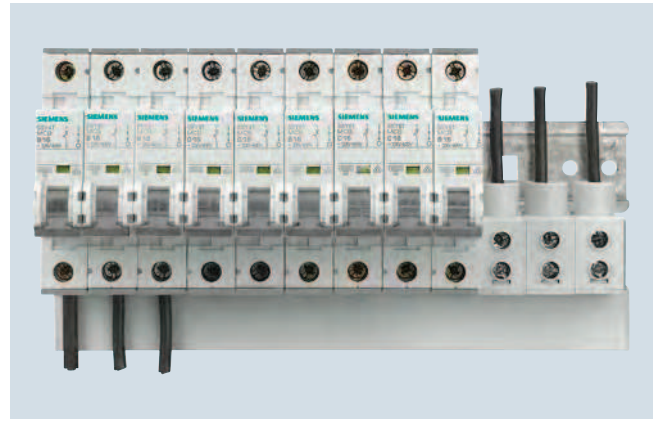
The busbars are available in single-, two- and three-phase versions with different pin spacings and with two cross-sections 18 mm² and 25 mm². Infeed can be directly into the terminals of the miniature circuit breaker or through connection terminals.

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

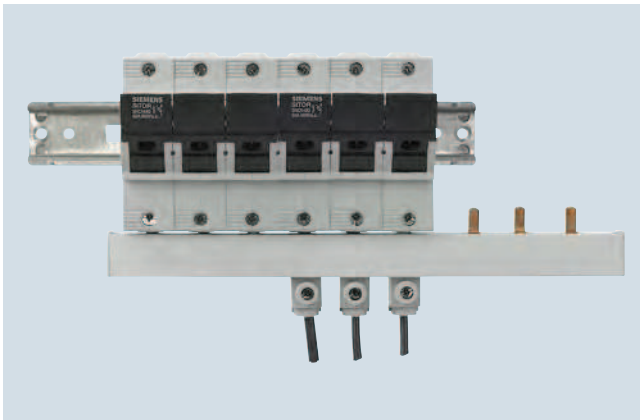
Benefits



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



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



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

Miniature Circuit Breakers

Busbars

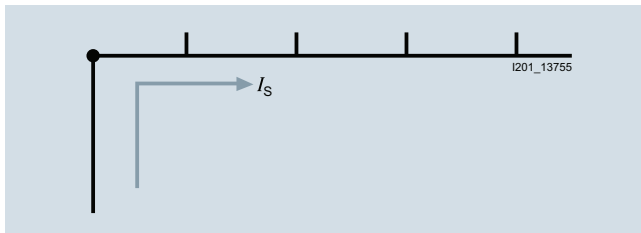
5ST3 busbars acc. to UL 508

3

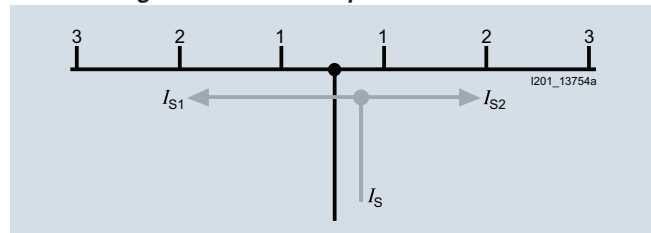
Technical specifications

		5ST37...-0HG	5ST37...-2HG	5ST3770-0HG	5ST3770-1HG	
Standards		UL 508, CSA C22.2 No. 14-M 95 / IEC 60999				
Approvals		UL 508 File No. E328403 CSA				
Operational voltage						
• Acc. to IEC		V AC	690			
• Acc. to UL 508		V AC	600			
Rated conditional short-circuit current		kA	10			
• Dielectric strength		kV/mm	25			
• Surge strength		kV	> 9.5			
Max.current	UL	A	--	--	115	
	IEC	A	--	--	160	
Maximum busbar current I_S/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		100000 A RMS sym. for protection with Class J 175 A				
25 mm ²		100000 A RMS sym. for protection with Class J 200 A				
Busbar cross-section		mm ² Cu	18	25	--	--
Infeed			Any			
Conductor cross-sections	Solid	AWG	--	--	10 ... 1/0	10 ... 1
		mm ²	--	--	6 ... 35 (Cu 60 °C)	6 ... 50 (Cu 75 °C)
	Stranded	AWG	--	--	10 ... 2	
		mm ²	--	--	6 ... 35	
Terminals	± Screw (Pozidriv)		--	--	2	2
• Terminal tightening torque		Nm	--	--	5	3.5
		lbs/in.	--	--	50	35

Infeed at the start or end of the busbar



Infeed along the busbar or midpoint infeed



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

Selection and ordering data

	Pin spacing	Length	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	MW ¹⁾	mm							kg
5ST37...-HG busbars acc. to UL 508, 18 mm², can be cut, without end caps									
	Single-phase								
	• For MCBs 1P (5SY) or fuse holders 10 x 38 mm/class CC (3NC1091, 3NW7513-0HG)	1	1000	5ST3701-0HG		1	1 unit	1AE	0.320
	• For MCBs 1P (5SY, 5SP) with AS or FC or fuse holders 14 x 51 mm (3NC1491, 3NW7111)	1.5	1000	5ST3703-0HG		1	1 unit	1AE	0.277
	Two-phase								
	• For MCBs 2P (5SY) or fuse holders 10 x 38 mm/class CC (3NC1092, 3NW7523-0HG)	1	1000	5ST3705-0HG		1	1 unit	1AE	0.640
	• For MCBs 2P (5SY) with AS or FC	1+1.5	1000	5ST3707-0HG		1	1 unit	1AE	0.690
	Three-phase								
	• For MCBs 3P (5SY) or fuse holders 10 x 38 mm/class CC (3NC1093, 3NW7533-0HG)	1	1000	5ST3710-0HG		1	1 unit	1AE	0.820
	• For MCBs 3P (5SY) with AS or FC	1+1+1.5	1000	5ST3712-0HG		1	1 unit	1AE	0.800
	• For MCBs 1P (5SY, 5SP) with AS or FC or fuse holders 14 x 51 mm (3NC1493, 3NW7131)	1.5	1000	5ST3714-0HG		1	1 unit	1AE	0.780
5ST37...-HG busbars acc. to UL 508, 25 mm², can be cut, without end caps									
	Single-phase								
	For MCBs 1P (5SP) or fuse holders 14 x 51 mm (3NC1491, 3NW7111)	1.5	1000	5ST3701-2HG		1	1 unit	1AE	0.340
	Two-phase								
	For MCBs 2P (5SP) or fuse holders 14 x 51 mm (3NC1492, 3NW7121)	1.5	1000	5ST3705-2HG		1	1 unit	1AE	0.770
	Three-phase								
	For MCBs 3P (5SP) or fuse holders 14 x 51 mm (3NC1493, 3NW7131)	1.5	1000	5ST3710-2HG		1	1 unit	1AE	1.090
End caps for 5ST37...-HG									
	• For single-phase busbars			5ST3748-0HG		1	10 units	1AE	0.001
	• For two- and three-phase busbars			5ST3750-0HG		1	10 units	1AE	0.002
Terminals according to UL 508									
	Infeed to device 35 mm ²			5ST3770-0HG		1	10 units	1AE	0.033
	Infeed to busbar 50 mm ²			5ST3770-1HG		1	10 units	1AE	0.033
Touch protection cover for busbars according to UL 508									
	5 x 1 pin			5ST3655-0HG		1	10 units	1AE	0.011

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

Miniature Circuit Breakers

Busbars

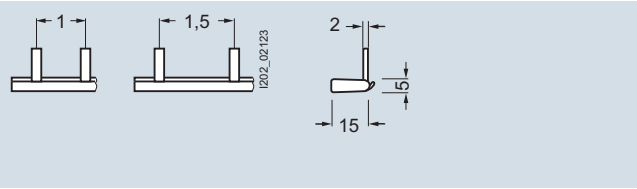
5ST3 busbars acc. to UL 508

Dimensional drawings

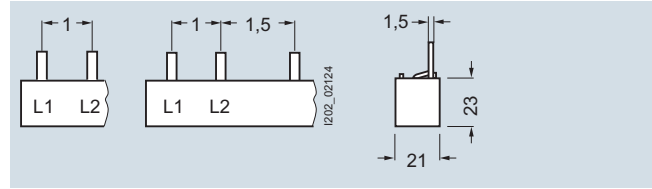
5ST37 busbars

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

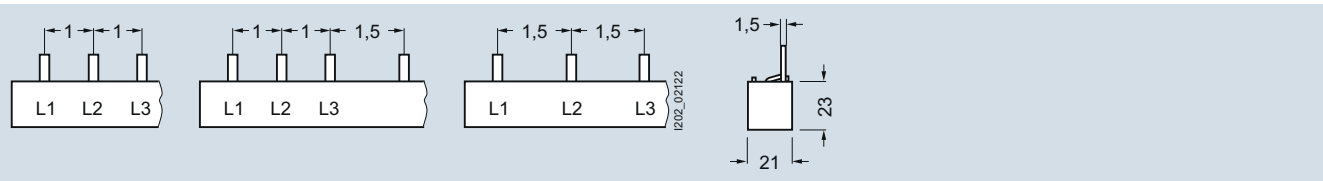
Dimensions of side view in mm (approx.)



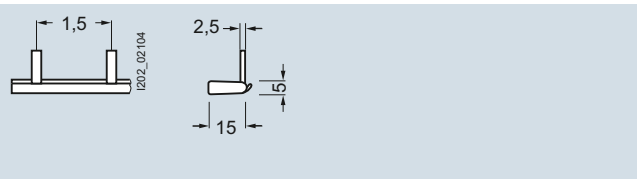
5ST3701-0HG 5ST3703-0HG



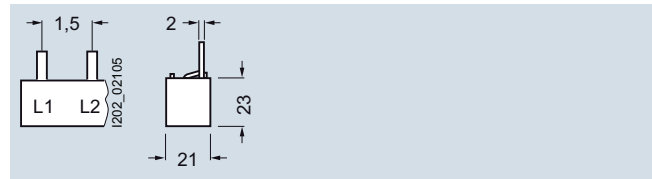
5ST3705-0HG 5ST3707-0HG



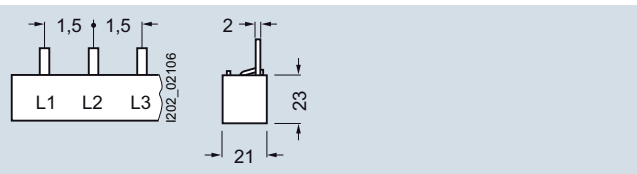
5ST3710-0HG 5ST3712-0HG 5ST3714-0HG



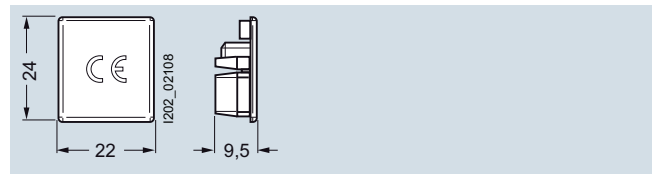
5ST3701-2HG



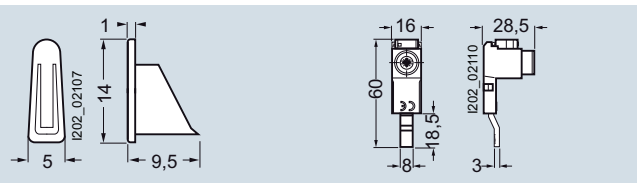
5ST3705-2HG



5ST3710-2HG

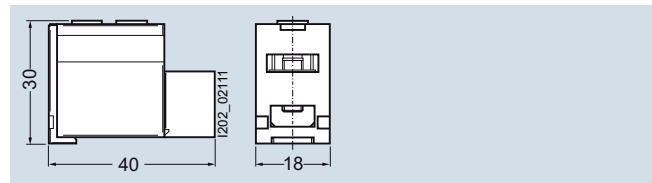


5ST3750-0HG



5ST3748-0HG

5ST3770-0HG

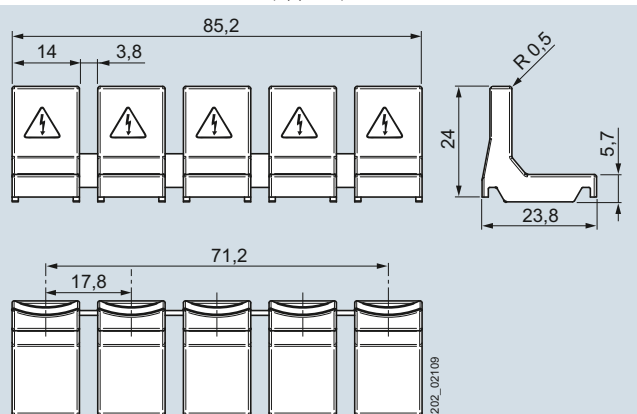


5ST3770-1HG

5ST36 touch protection covers

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

Dimensions of side view in mm (approx.)



5ST3655-0HG

Overview

Distribution blocks for standard rail mounting

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

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

3

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	Neutral conductor	Large mm ²	8 x 1.5 ... 10	2 x 4 ... 16	3 x 6 ... 25
			Small mm ²	--	5 x 1.5 ... 6	8 x 2.5 ... 16
- Finely stranded with end sleeve	Neutral conductor	Large mm ²	--	6 x 4 ... 16	--	
		Small mm ²	--	4 x 1.5 ... 10	--	
- Finely stranded with end sleeve	Neutral conductor	Large mm ²	8 x 1.5 ... 10	2 x 4 ... 10	3 x 6 ... 16	
		Small mm ²	--	5 x 1.5 ... 6	8 x 2.5 ... 10	
Neutral conductor	Large mm ²	Small mm ²	--	6 x 4 ... 10	--	
			--	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	
• Outputs	Large	lbs/in.	13.5	13.5	13.5	
		Nm	1.5	1.5	1.5	
	Plug-in connection	Small	lbs/in.	--	7.2	13.5
		Small	Nm	--	0.8	1.5
Plug-in connection	Small	lbs/in.	--	7.2	13.5	
	Small	Nm	--	0.8	1.5	
Operational voltage						
• IEC, max.	V	690	690	1000 V AC 1500 V DC		
Overcurrent protection						
• Max. rated current	A	80	125	175		
• Rated peak withstand current (I_{pk})	kA	21.6	24	20		
• Rated short-time withstand current (I_{cw} 1 s)	kA	3	4.2	6.2		
Block dimensions (D x H x W)		mm	88 x 49 x 85	75 x 45 x 98	102 x 47 x 87	

Miniature Circuit Breakers

Busbars





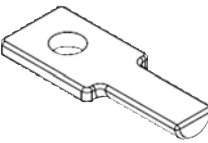
5ST2 distribution blocks

UL types

			5ST2504	5ST2505	5ST2507	5ST2508	5ST2511
Standards, certifications			UL 1059 / UL 486E / IEC 60947-7-1 UL File No. E80027 / XCFR2 C22.2 No. 158 -1987 / XCFR8			UL 1059 / UL 486E / IEC 60947-7-1 UL File No. E80027 / XCFR2	
Degree of protection			IP 20				
Poles			1				
Approved cable			Copper				
Wiring type			Factory and field wiring				
• Front/back			Pressure wire connector				
Conductor cross-section							
• Inputs							
- Solid and stranded conductor acc. to UL	Large	AWG	1 x 14 ... 4	1 x 8 ... 2	1 x 8 ... 2 / 0	1 x 2 ... 4 / 0	1 x 3 / 0 ... 350 MCM
- Solid and stranded acc. to IEC		mm ²	2.5 ... 16	10 ... 35	10 ... 70	35 ... 120	95 ... 185
- Solid and stranded conductor acc. to UL	Small	AWG	--	1 x 14 ... 6	--	--	--
- Solid and stranded acc. to IEC		mm ²	--	6 ... 16	--	--	--
- Finely stranded with end sleeve acc. to UL	Large	AWG	1 x 14 ... 4	1 x 8 ... 2	1 x 8 ... 1	1 x 2 ... 3 / 0	3 / 0 ... 5 / 0
- Finely stranded with end sleeve acc. to IEC		mm ²	2.5 ... 16	10 ... 35	10 ... 50	35 ... 95	95 ... 150
- Finely stranded with end sleeve acc. to UL	Small	AWG	--	1 x 14 ... 6	--	--	--
- Finely stranded with end sleeve acc. to IEC		mm ²	--	6 ... 16	--	--	--
• Outputs							
- Solid and stranded conductor acc. to UL	Top	AWG	4 x 14 ... 10	6 x 14 ... 6	6 x 14 ... 6	4 x 16 ... 8	--
- Solid and stranded acc. to IEC		mm ²	2.5 ... 6	2.5 ... 16	2.5 ... 16	1.5 ... 10	--
- Solid and stranded conductor acc. to UL	Medium	AWG	--	--	--	5 x 16 ... 6	--
- Solid and stranded acc. to IEC		mm ²	--	--	--	1.5 ... 16	--
- Solid and stranded conductor acc. to UL	Bottom	AWG	2 x 14 ... 6	--	--	2 x 14 ... 2	--
- Solid and stranded acc. to IEC		mm ²	2.5 ... 16	--	--	2 x 2.5 ... 35	--
- Finely stranded with end sleeve acc. to UL	Top	AWG	4 x 14 ... 10	6 x 14 ... 6	6 x 14 ... 6	2 x 14 ... 4	--
- Finely stranded with end sleeve acc. to IEC		mm ²	2.5 ... 6	2.5 ... 16	2.5 ... 16	2 x 2.5 ... 25	--
- Finely stranded with end sleeve acc. to UL	Bottom	AWG	2 x 14 ... 6	--	--	2 x 14 ... 4	--
- Finely stranded with end sleeve acc. to IEC		mm ²	2.5 ... 16	--	--	2 x 2.5 ... 25	--
Tightening torque							
• Inputs							
		lbs/in.	13.2 ... 26.5	31 ... 44	44 ... 53	170 ... 186	222
		Nm	1.5 ... 3	3.5 ... 5	5 ... 6	19 ... 21	25
	Plug-in connection			Allen key (4 mm)	Allen key (5 mm)	Allen key (6 mm)	Allen key (8 mm)
• Outputs							
	Large	lbs/in.	13.2 ... 26.5	17.7 ... 26.5	13.2 ... 26.5	31 ... 62	
		Nm	1.5 ... 3	2 ... 3	1.5 ... 3	3.5 ... 7	
	Plug-in connection			PZ2		Standard screwdriver	
	Small	lbs/in.	7 ... 13.2	--	--	18 ... 27	
		Nm	0.8 ... 1.5	--	--	2 ... 3	
	Plug-in connection			PZ1		Standard screwdriver	
Ampere per pole, max. (UL/IEC)	A		80/80	115/125	160/160	230/250	310/400
Operational voltage							
• UL, max. (AC)	V		600				
• IEC, max. (AC/DC)	V		1000/1500				
Overcurrent protection							
• Required Class			J				
• Max. rated current (UL/IEC)	A		80/80	115/125	160/160	230/250	310/400
• SCCR RMS Sym A	kA		100				
• Rated peak withstand current (I_{pk})	kA		2.7			51	
• Rated short-time withstand current (I_{cw} 1 s)	kA		1.9		4.2		11
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.	
		A	V	MW							kg	
Distribution blocks												
 5ST2504	1-pole	UL 1059 / UL 486E / IEC 60947-7-1	80	600	1.5		5ST2504		1	1 unit	1AD	0.076
		UL File No. E80027 / XCFR2	125	600	1.5		5ST2505		1	1 unit	1AD	0.149
		UL File No. E80027 / XCFR2	160	600	2	▶	5ST2507		1	1 unit	1AD	0.259
		UL 486E / IEC 60947-7-1	250	600	2.5	▶	5ST2508		1	1 unit	1AD	0.430
		UL File No. E80027 / XCFR2	350	600	2.5	▶	5ST2511		1	1 unit	1AD	0.407
 5ST2501	4-pole	IEC 60947-7-1	80	500	5		5ST2501		1	1 unit	1AD	0.224
		IEC 60947-7-1	125	690	5.5		5ST2502		1	1 unit	1AD	0.337
		IEC 60947-7-1	160	500	9		5ST2503		1	1 unit	1AD	0.716
 5ST2503		IEC 60947-7-1	160	500	9		5ST2503		1	1 unit	1AD	0.716
Accessories												
 5ST2506	Connector for 5ST2505 distribution board		--	--	--		5ST2506		1	10 units	1AD	0.015
	<ul style="list-style-type: none"> • With touch protection • 20 mm² • Single-phase • 32 mm 											
 5ST2510	Terminal lug ring terminal end for distribution block <i>NEW</i>						5ST2510		1	10 units	1AD	0.057
	Versions <ul style="list-style-type: none"> • For 5ST2508 distribution block • For 5ST2511 distribution block 						5ST2512		1	10 units	1AD	0.086

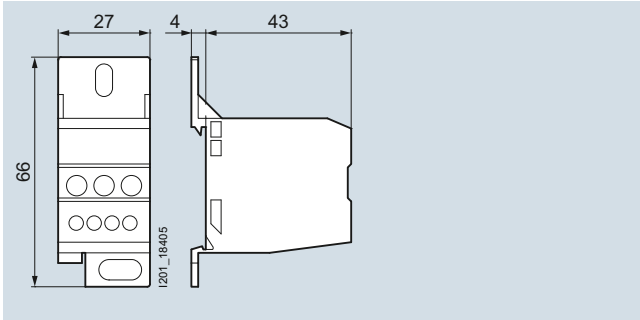
* You can order this quantity or a multiple thereof.

Miniature Circuit Breakers Busbars

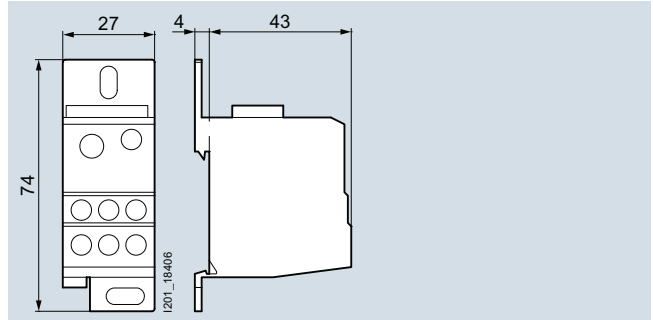
5ST2 distribution blocks

Dimensional drawings

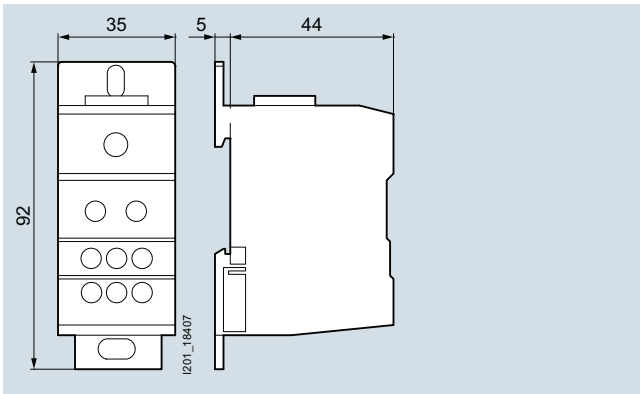
3



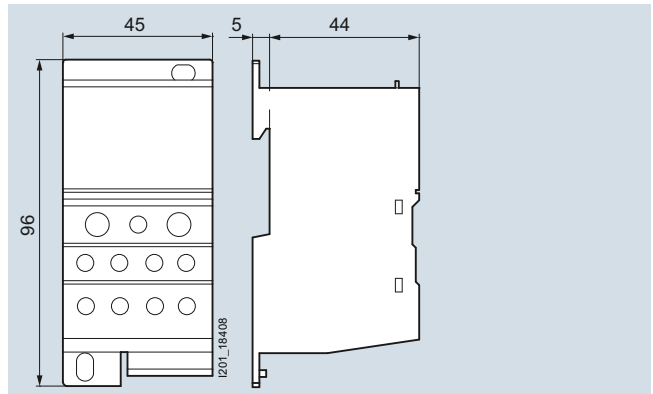
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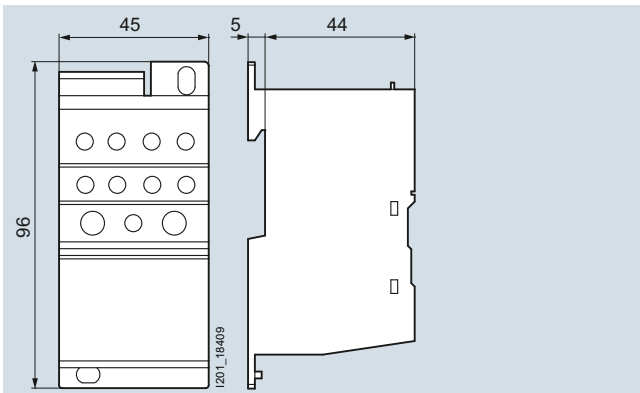
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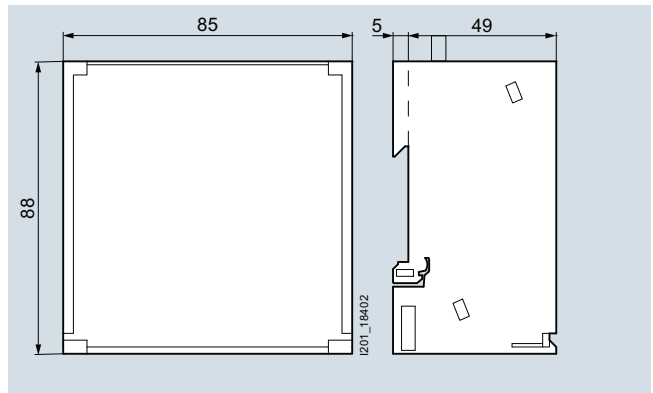
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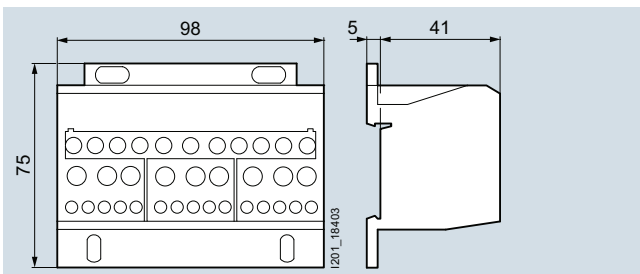
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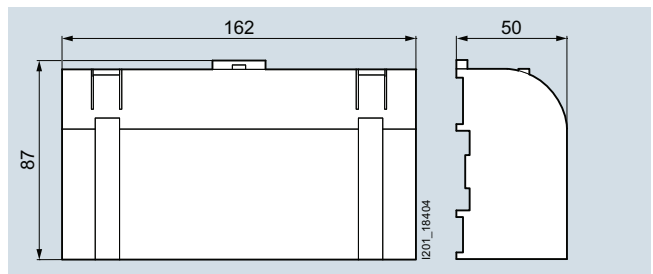
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5ST2501



5ST2502



5ST2503