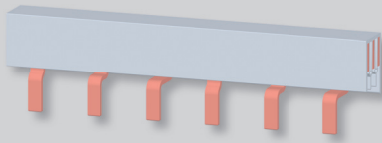


Modular devices



INTERCONNECTING BUSBARS



S3L-1000-10

Interconnecting busbars

- For interconnection of 1 to 4-pole circuit breakers, residual current circuit breakers, switches, lightning current arresters and surge voltage arresters.
- Interconnecting busbars of S3L-...FI design:
 - special interconnecting busbars (without N-pole) for easier connection of the residual current circuit breaker and circuit breaker, where it is required that the row of circuit breakers begins at the N-pole of the residual current circuit breaker.
 - advantage (compared to solution with standard busbar with N-pole) it is not necessary to cut the outlets of the N-pole.

Interconnecting busbars of length 1 m

- For devices with pole spacing 17.8 mm:
 - miniature circuit breakers LTP, LTS, LTK, LTN, LTN-UC
 - residual current circuit breakers LFN, LFE, OLI, OLE
 - switches MSO, MSN etc.

Number of poles	Number of outlets	Cross-section [mm ²]	Type	Order code	End cap	Weight [kg]	Package [pcs]
1	57	10	S1L-1000-10	OEZ:37373	EKC-1	0.204	50
		16	S1L-1000-16	OEZ:37375	EKC-1	0.302	50
2	28x 2	16	S2L-1000-16	OEZ:37378	EKC-2+3	0.477	20
		10	S3L-1000-10	OEZ:38484	EKC-3	0.505	20
3	19x 3	16	S3L-1000-16	OEZ:37379	EKC-2+3	0.737	20
		16	S3L+N-1000-16	OEZ:38487	EKC-4	1.205	15
4	14x 4	16	S4L-1000-16	OEZ:38486	EKC-4	1.205	15

Interconnecting busbars of length 1 m

- For devices with pole spacing 27 mm:
 - miniature circuit breakers LVN
 - 1-module devices (e.g. miniature circuit breakers LTP, LTS, LTN, LTN-UC, switches MSO etc.) with auxiliary switch.

Number of poles	Number of outlets	Cross-section [mm ²]	Type	Order code	End cap	Weight [kg]	Package [pcs]
1	37	16	S1L-27-1000-16	OEZ:37376	EKC-1	0.201	50
		25	S1L-27-1000-25	OEZ:37377	EKC-1-36	0.315	30
3	12x 3	16	S3L-27-1000-16	OEZ:37380	EKC-2+3	0.537	20
		25	S3L-27-1000-25	OEZ:37381	EKC-3-36	0.995	10
4	9x 4	25	S4L-27-1000-25 *)	OEZ:37382	EKC-3-36 + EKC-1-36	1.327	15

*) The busbar consists of one 3-pole and one 1-pole busbar.

Short interconnecting busbars

- For devices with pole spacing 17.8 mm:
 - miniature circuit breakers LTP, LTS, LTK, LTN, LTN-UC
 - residual current circuit breakers LFN, LFE, OLI, OLE
 - switches MSO, MSN etc.
- They are manufactured already covered, and must not be shortened.

Number of poles	Number of outlets	Cross-section [mm ²]	Type	Order code	End cap *)	Weight [kg]	Package [pcs]
1	12	10	S1L-210-10	OEZ:38475	✓	0.045	50
		16	S1L-210-16	OEZ:37374	✓	0.047	50
2	6x 2	10	S2L-210-10	OEZ:38476	✓	0.067	20
		16	S2L-210-16	OEZ:38477	✓	0.110	20
3	2x 3	10	S3L-106-10	OEZ:38478	✓	0.055	25
		16	S3L-106-16	OEZ:38479	✓	0.080	25
	3x 3	10	S3L-160-10	OEZ:38480	✓	0.085	25
		16	S3L-160-16	OEZ:38481	✓	0.115	25
	4x 3	10	S3L-210-10	OEZ:38482	✓	0.110	25
		16	S3L-210-16	OEZ:38483	✓	0.150	25

*) ✓ = The busbar is covered.

INTERCONNECTING BUSBARS

Special interconnecting busbars

- For 2 and 3-module devices with auxiliary switch.
- For easier connection of circuit breaker with residual current circuit breaker (version S3L-...FI).

Number of poles	Number of outlets	Cross-section [mm ²]	Type	Order code	End cap	Weight [kg]	Package [pcs]
2	22x 2	16	S2L+N+9-1000-16 ¹⁾	OEZ:39849	EKC-2+3	0.710	20
3	3x 3 + 2x 1	10	S3L-210FI-10 ²⁾	OEZ:43144	✓ *)	0.074	25
		16	S3L-210FI-16 ²⁾	OEZ:43146	✓ *)	0.099	25
	16x 3	16	S3L+9-1000-16 ³⁾	OEZ:38485	EKC-2+3	0.720	20
	22x 2	16	S3L+N+9-1000-16 ¹⁾	OEZ:39616	EKC-4	0.983	15

¹⁾ For 2-module (L+N) devices with auxiliary switch

²⁾ For interconnection of circuit breakers and residual current circuit breakers, where it is required that the row of circuit breakers begins at the N-pole of the residual current circuit breaker. In connection of the circuit breakers LTP, LTS/LTN and residual current circuit breaker LFN/LFE by the busbar from the bottom the diameter of the connected N conductor is limited to approx. 5 mm, because the busbar covers the N-terminal of the pole for the greater part.

³⁾ For 3-module (L123) devices with auxiliary switch

*) ✓ = The busbar is covered.

Accessories of interconnecting busbars

End caps

- For covering the ends of interconnecting busbars.

Type	Order code	Description	Weight [kg]	Package [pcs]
EKC-1	OEZ:37383	for 1-pole rails by cross-section 10, 12, 16 mm ²	0.0005	10
EKC-2+3	OEZ:37384	for 2-pole rails and for 3-pole rails by cross-section 16 mm ²	0.0010	10
EKC-3	OEZ:37385	for 3-pole rails by cross-section 10 mm ²	0.0010	10
EKC-4	OEZ:37387	for 4-pole rails by cross-section 16 mm ²	0.0020	10
EKC-1-36	OEZ:43854	for 1-pole rails by cross-section 25 mm ²	0.0010	10
EKC-3-36	OEZ:37386	for 3-pole rails and for 4-pole rails by cross-section 25 mm ²	0.0020	10

Power supply unit

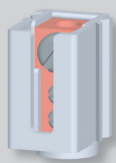
- It enables power supply of interconnecting busbars by conductors of cross-section up to 35 mm².
- The blocks can be assembled in series to create a multi-pole connection unit.
- Degree of protection IP20.

Type	Order code	Weight [kg]	Package [pcs]
ES-35-GS	OEZ:37388	0.035	10

Outlet cover

- It enables isolation of unused outlets of interconnecting busbars.
- For covering five unused outlets.

Type	Order code	Weight [kg]	Package [pcs]
EKD-5	OEZ:43147	0.004	10

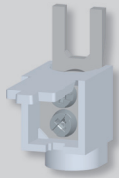


ES-35-GS

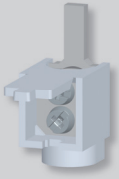


EKD-5

INTERCONNECTING BUSBARS



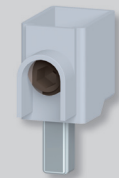
AS-25-G



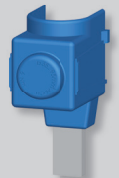
AS-25-S



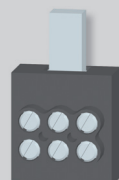
AS-50-S-L



AS-50-S-AL01



CS-FH000-1NP95



N3x10-FH000

Terminal extensions

Terminal extension up to 25 mm² with fork

- For connection of another conductor to the head part of the terminal.
- Cross-section of Cu conductors: 6 ÷ 25 mm².

Type	Order code	Accessory to	Weight [kg]	Package [pcs]
AS-25-G	OEZ:37390	SJB, SJBC, SVBC, SVC	0.013	30

Terminal extension up to 25 mm² with pin

- For connection of conductors to the clamp part of the terminal.
- Cross-section of Cu conductors: 6 ÷ 25 mm².

Type	Order code	Weight [kg]	Package [pcs]
AS-25-S	OEZ:37389	0.014	30

Terminal extension up to 50 mm²

- With long terminal.
- Use in combination with interconnecting busbar S1., S2., S3..
- For connection of Cu conductors.
- Cross-section of Cu conductors: 6 ÷ 50 mm².

Type	Order code	Weight [kg]	Package [pcs]
AS-50-S-L	OEZ:43149	0.033	1

Terminal extensions up to 50 mm²

- For connection of Cu/Al conductors of cross-section.
- Cross-section of Cu conductors: 2.5 ÷ 50 mm².
- Cross-section of Al conductors: 2.5 ÷ 50 mm².

Type	Order code	Accessory to	Weight [kg]	Package [pcs]
AS-50-S-AL01	OEZ:38749	LTP, LTS, LTN, LVN, LFE, LFN, OLE, OLI, OFI100/125, SJB, SJBC, SVBC, SVC, MSO, MSN	0.018	16

Terminal extensions up to 95 mm²

- For connection of Cu/Al conductors of cross-section 35 ÷ 95 mm².
- With direct or outbowed terminal.

Type	Order code	Description	Accessory to	Weight [kg]	Package [pcs]
CS-FH000-3NP95	OEZ:13740	straight terminal – the package contains the set of 3 pieces	LVN	0.176	1
CS-FH000-1NP95	OEZ:14378	straight terminal	LVN	0.060	1
CS-FH000-3NV95	OEZ:13742	outbowed terminal – the package contains the set of 3 pieces	LVN	0.184	1

Terminal extension up to 3x 10 mm²

- For connection of 3 conductors per device pole of cross-section 10 mm².

Type	Order code	Accessory to	Weight [kg]	Package [pcs]
N3x10-FH000	OEZ:14127	LVN, SJB, SJBC, SVBC	0.06	1

INTERCONNECTING BUSBARS

Specifications

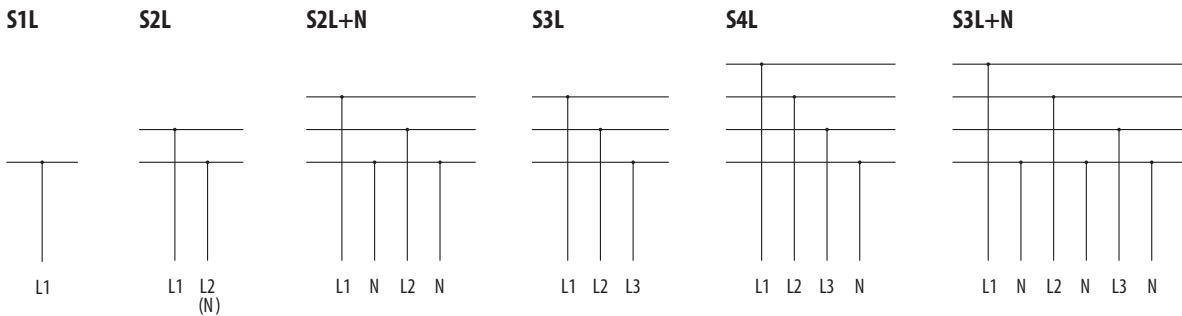
Type		S1L..	S2L-., S3L-., S4L-..
Standards		EN 61439-1, ed.2	EN 61439-1, ed.2
Rated operating voltage	U_e	AC 690 V / DC 1000 V	AC/DC 500 V
Loading current		63 ÷ 180 A	63 ÷ 180 A
Cross-section		10 ÷ 25 mm ²	10 ÷ 25 mm ²
Short-circuit strength with backup fuse 250 A gG		50 kA	50 kA
Overtoltage category		III	III
Rated impulse voltage		8 kV	8 kV
Degree of protection		IP20	IP20
Busbar material		E-Cu-F25	E-Cu-F25
Insulation material		PC/ABS-Blend	PC/ABS-Blend

Max. loading current per phase

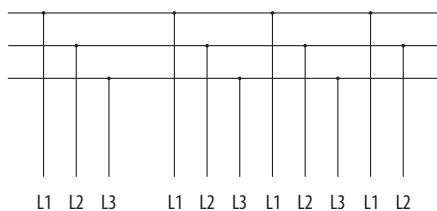
	Rail cross-section			
	10 mm ²	16 mm ²	20 mm ²	25 mm ²
Power supply from the rail edge	63 A	80 A	90 A	100 A
Power supply from the rail centre ¹⁾	100 A	130 A	150 A	180 A

¹⁾ Max. loading current in one direction must not be higher than max. loading current at power supply from the rail edge.

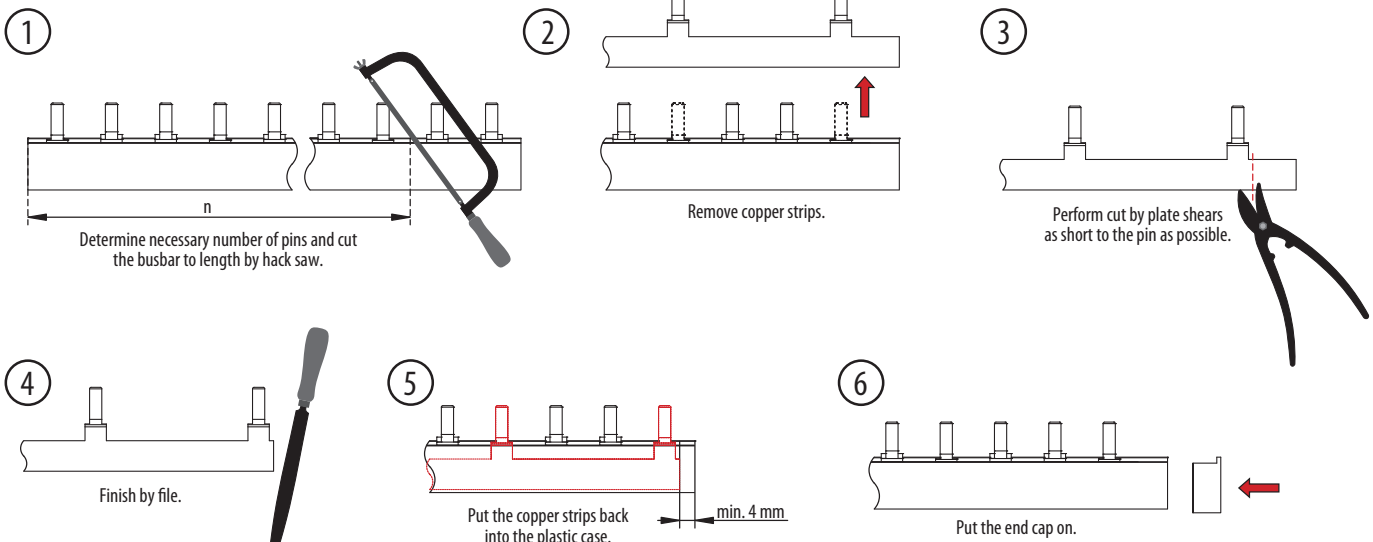
Diagram



S3L-210FI



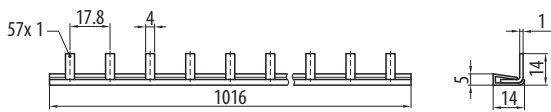
Shortening interconnecting busbars



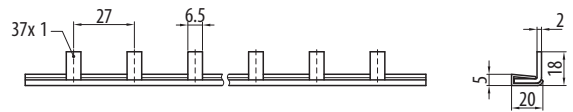
INTERCONNECTING BUSBARS

Dimensions

S1L-1000-10



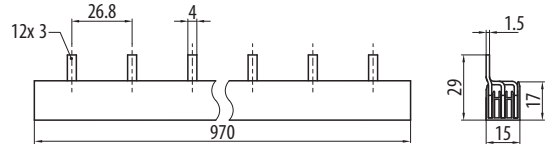
S1L-27-1000-25



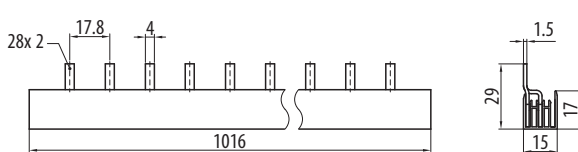
S1L-1000-16



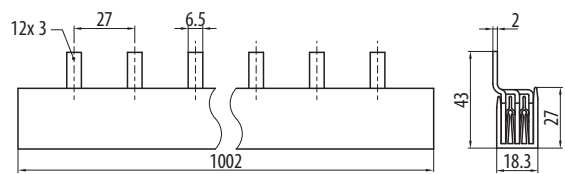
S3L-27-1000-16



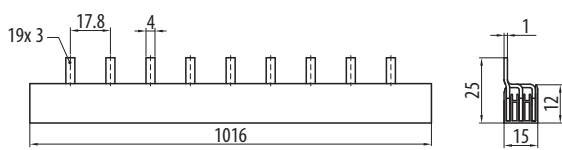
S2L-1000-16



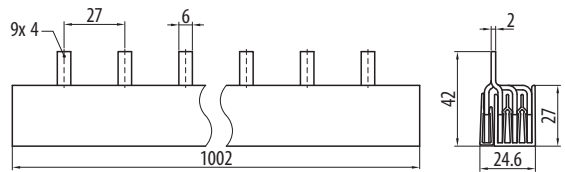
S3L-27-1000-25



S3L-1000-10



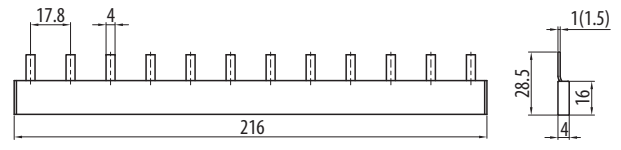
S4L-27-1000-25



S3L-1000-16

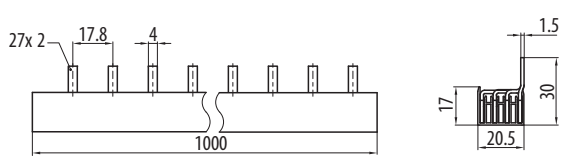


S1L-210-10, S1L-210-16

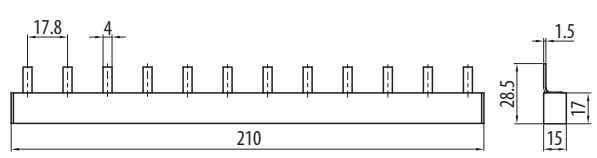


S3L+N-1000-16

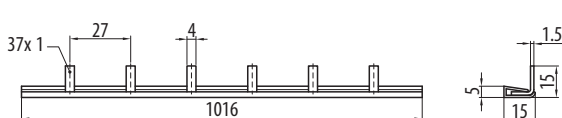
S4L-1000-16



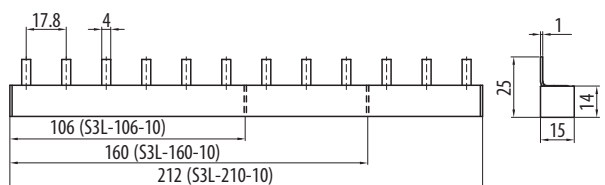
S2L-210-10, S2L-210-16



S1L-27-1000-16

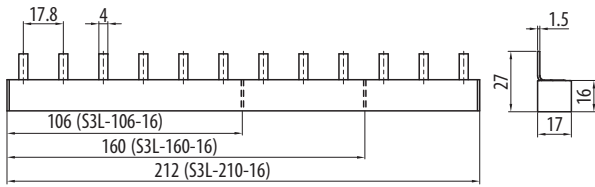


S3L-106-10, S3L-106-10, S3L-210-10

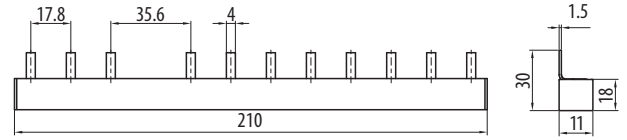


INTERCONNECTING BUSBARS

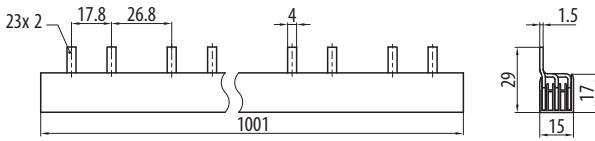
S3L-106-16, S3L-106-16, S3L-210-16



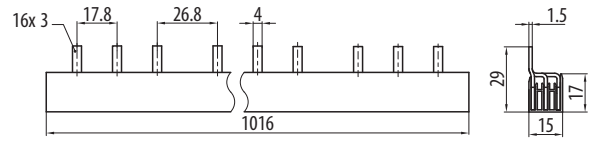
S3L-210FI-16



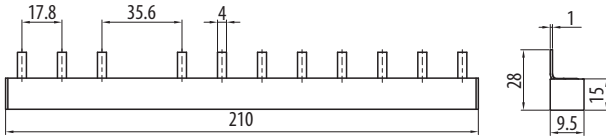
S2L+N+9-1000-16



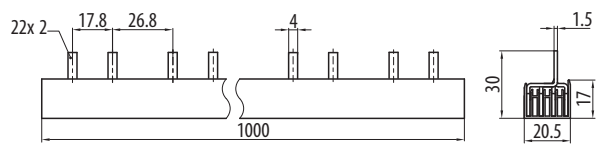
S3L+9-1000-16



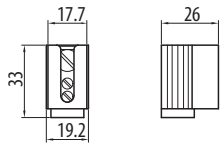
S3L-210FI-10



S3L+N+9-1000-16

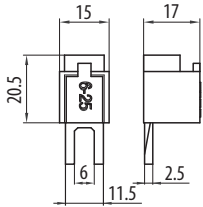


ES-35-GS

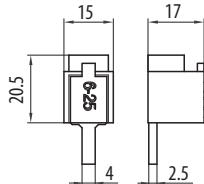


Dimensions of terminal extensions

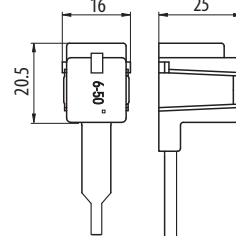
AS-25-G



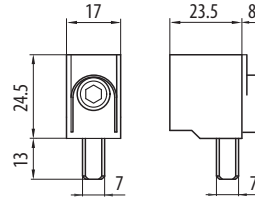
AS-25-S



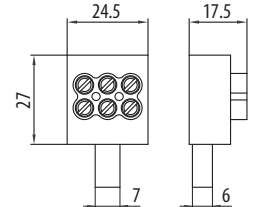
AS-50-S-L



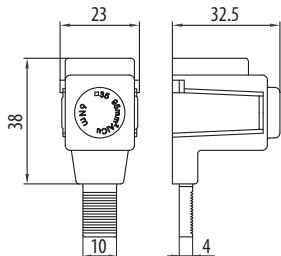
AS-50-S-AL01



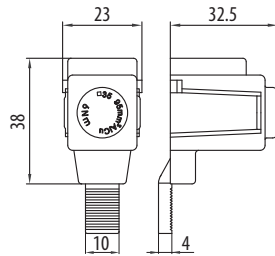
N3x10-FH000



CS-FH000...NP95



CS-FH000-3NV95



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