

- For cable and conductor overload and short-circuit protection
- Tripping characteristics B, C according to EN 60 898
- Current-limiting circuit breakers
- Wide range of accessories auxiliary and relative switches, undervoltage releases and shunt trips, busbars etc.
- Possible locking, sealing
- Possible interconnection with switch-disconnectors OPV10 (up to 32 A) by means of busbars
- Possible interconnection with residual current circuit breakers OFE (OFI) and LFE (LFI)
- All miniature circuit breakers are fitted with black operating levers





Miniature circuit breakers 1-pole

	Characteristic B		Characteristic	Characteristic C		Packing
[A]	Туре	Product code	Туре	Product code	[kg]	[pcs]
6	LSE 6B/1	12400	LSE 6C/1	12402	0.15	12
10	LSE 10B/1	12404	LSE 10C/1	12406	0.15	12
16	LSE 16B/1	12408	LSE 16C/1	12410	0.15	12
20	LSE 20B/1	12412	LSE 20C/1	12414	0.15	12
25	LSE 25B/1	12416	LSE 25C/1	12418	0.15	12
32	LSE 32B/1	12420	LSE 32C/1	12422	0.15	12
40	LSE 40B/1	12424	LSE 40C/1	12426	0.15	12

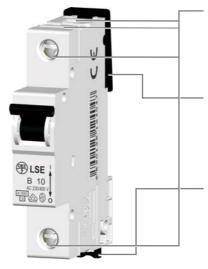
Miniature circuit breakers 3-pole

I _n	Characteristic E	3	Characteristic	C	Weight	Packing
[A]	Туре	Product code	Туре	Product code	[kg]	[pcs]
6	LSE 6B/3	12401	LSE 6C/3	12403	0.44	4
10	LSE 10B/3	12405	LSE 10C/3	12407	0.44	4
16	LSE 16B/3	12409	LSE 16C/3	12411	0.44	4
20	LSE 20B/3	12413	LSE 20C/3	12415	0.44	4
25	LSE 25B/3	12417	LSE 25C/3	12419	0.44	4
32	LSE 32B/3	12421	LSE 32C/3	12423	0.44	4
40	LSE 40B/3	12425	LSE 40C/3	12427	0.44	4

LSE accessories

Auxiliary and relative switches	S-LSN	page 19
Shunt trips	VLSN	page 21
Undervoltage releases	NLSN	page 23
Locking insert	VU-LSN	page 25
Interconnecting busbars	G, S	page 93
Connecting adapters	AS/25-GN, AS/25-SN, AS-AL/CU-16-50	page 95
Interconnecting module	PSN	page 97

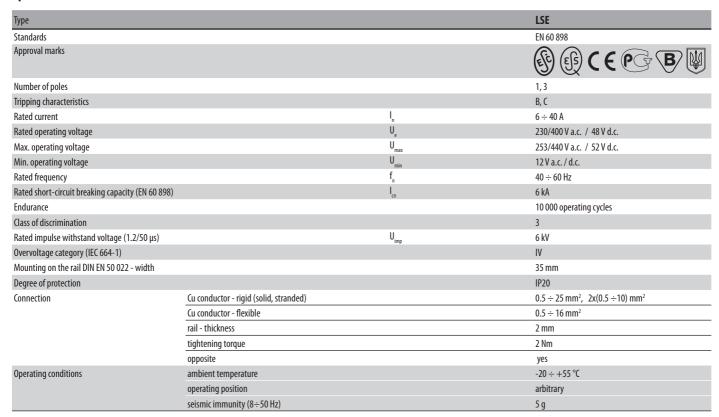
Description



- **Combined terminal** with a secured screw on both sides of the miniature circuit breaker makes it possible to connect the busbar and conductor. Both the busbar and conductor can be connected by a single screw.
- **Upper sliding latch** makes it possible to withdraw a miniature circuit breaker from a row of devices interconnected on the top by a busbar without interruption of adjacent current circuits.
- **Lower latch** enables mounting on the rail DIN EN 50 022, width 35 mm. In the fixed withdrawn position it facilitates the side shift on the instrument board.



Specification



Internal impedance Z, power losses P, impedance Z,

Ļ	Z 1)	P 1)	Max. impedance of fault loop $Z_s = [\Omega]^{2}$		
[Ä]	[mΩ/pól]	[VA/pól]	Characteristic B	Characteristic C	
6	27	1.0	7.7	4.3	
10	12	1.2	4.6	2.6	
16	7.8	2.0	2.9	1.6	
20	5.3	2.1	2.3	1.3	
25	4.2	2.6	1.8	1.0	
32	2.7	2.75	1.4	0.8	
40	1.8	2.9	1.2	0.6	

¹⁾ Mean values

Correction of rated currents of miniature circuit breakers LSE

I _n	Correction	Correction of rated currents for ambient temperature -20 °C to +60 °C [A] 1)										
[Ä]	-20 °C	-10 °C	0°C	10 °C	20 °C	30 °C	40 °C	50 ℃	60°C			
6	7.5	7.2	6.9	6.6	6.3	6	5.6	5.3	5.0			
10	12.5	12.0	11.5	11.0	10.5	10	9.3	8.8	8.4			
16	20.0	19.2	18.4	17.6	16.8	16	14.9	14.1	13.4			
20	25.0	24.0	23.0	22.0	21.0	20	18.6	17.6	16.8			
25	31.3	30.0	28.8	27.5	26.3	25	23.3	22.0	21.0			
32	40.0	38.4	36.8	35.2	33.6	32	29.8	28.2	26.9			
40	50.0	48.0	46.0	44.0	42.0	40	37.2	35.2	33.6			
25 32 40	31.3 40.0	30.0 38.4 48.0	28.8 36.8 46.0	27.5 35.2 44.0	26.3 33.6 42.0	25 32 40	23.3 29.8	22.0 28.2	21.0 26.9			

 $^{^{1)}}$ Valid for 1 pole and any characteristic, reference temperature: 30 $^{\circ}\text{C}$

Correction of rated currents of miniature circuit breakers installed side by side [A] ²⁾									
1	2	3	4	5	6	7	8		
6	5.7	5.5	5.3	5.2	5.1	5.1	5.1		
10	9.5	9.2	8.9	8.7	8.5	8.5	8.5		
16	15.2	14.7	14.2	13.9	13.6	13.6	13.6		
20	19.0	18.3	17.8	17.3	17.1	17.0	17.0		
25	23.8	22.9	22.3	21.7	21.3	21.3	21.3		
32	30.4	29.3	28.5	27.7	27.3	27.2	27.2		
40	38.0	36.6	35.6	34.7	34.1	34.0	34.0		

²⁾ Valid for reference temperature 30 °C

 $^{^{2)}}$ For TN network, U = 230 V, break time up to 0.4 s; if the measured value exceeds the table value, use residual current circuit breaker



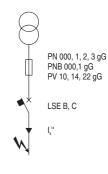
Selectivity of miniature circuit breakers LSE of characteristic B with backup fuses [kA]

LSE	PN, PNB, P	V gG						
I _n [A]	20	25	32	40	50	63	80	100
6		1	1.5	2	6	6	6	6
10		1	1.5	2	5	6	6	6
16			1.5	2	2.5	6	6	6
20				2	2.5	5	6	6
25					2.5	5	6	6
32						3.5	6	6
40						1	5	6

$Selectivity \ of \ miniature \ circuit \ breakers \ LSE \ of \ characteristic \ C \ with \ backup \ fuses \ [kA]$

LSE	PN, PNB, P	V gG						
I _n [A]	20	25	32	40	50	63	80	100
6		1	1.5	2	6	6	6	6
10		1	1.5	2	5	6	6	6
16			1.5	2	2.5	6	6	6
20					2.5	5	6	6
25					2.5	5	6	6
32						3.5	6	6
40							5	6

In case of short-circuit after the miniature circuit breaker LSN with backup fuse, selectivity of particular combination is guaranteed up to the value of the short-circuit current I_k " stated in the tables

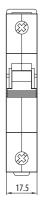


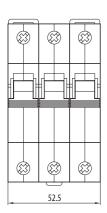
*I*_" - initial peak short-circuit current (rms value)

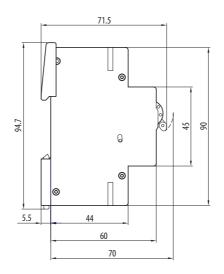
Dimensions

LSE.../1

LSE.../3





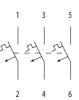


Diagram

LSE.../1

LSE.../3

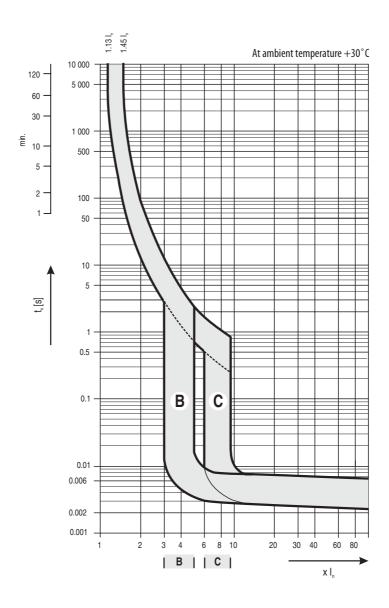






Tripping characteristics

- **Characteristic B**: for protection of electric circuits with equipment that does not cause current surges (lighting or socket outlet circuits etc.); the short-circuit release is set to (3 ÷ 5) |_n
- **Characteristic C**: for protection of electric circuits with equipment that causes current surges (light bulb groups, motors etc.); the short-circuit release is set to $(6 \div 9) I_n$



Tripping characteristics of miniature circuit breakers according to EN 60 898

inpping characteristics of initiature circuit si cancis according to 211 00 070							
Thermal release	Tripping characteristic type						
Thermal release	B, C						
Conventional non-tripping current I_{nt} for $t \ge 1 h$	$I_{nt} = 1.13 I_{n}$						
Conventional tripping current I _t for t < 1 h	I ₊ = 1.45 I _n						
Current I ₃ for $1 \text{ s} < \text{t} < 60 \text{ s}$ (for I ₂ $\leq 32 \text{ A}$)	1 2551						
$1 \text{ s} < \text{t} < 120 \text{ s} \text{ (for I}_{n} > 32 \text{ A)}$	$I_3 = 2.55 I_n$						

t - break time of the circuit breaker

Flortromagnatic valoaca	Tripping characteristic type		
Electromagnetic release	В	C	
Current I_4 for $0.1 \text{ s} < \text{t} < 45 \text{ s}$ (for $I_n \le 32 \text{ A}$)	1 - 21		
$0.1 \text{ s} < \text{t} < 90 \text{ s} \text{ (for I}_{n} > 32 \text{ A)}$	$I_4 = 3I_n$		
$0.1 \text{ s} < \text{t} < 15 \text{ s} \text{ (for I}_{n} \le 32 \text{ A)}$		1 51	
$0.1 \text{ s} < \text{t} < 30 \text{ s} \text{ (for I}_{\text{n}} > 32 \text{ A)}$		$I_4 = 5I_n$	
Current I_s for $t < 0.1 s$	$I_s = 5 I_n$	$I_5 = 10 I_n$	

t - break time of the circuit breaker



AUXILIARY AND RELATIVE SWITCHES



Auxiliary switches S-LSN11, S-LSN21

- Accessories to: LSN, LSE, LST, ASN, AST
- The auxiliary switches are designed for signalling the position of the main contacts of miniature circuit breakers and tumbler power switches in tripping by releases or manually i.e. in tripping by overload, short-circuit, shunt trip, overvoltage release or control lever
- At correct connection of S-LSN11 or S-LSN21 with a miniature circuit breaker or tumbler power switch electric isolation is provided like between the input and output circuits of a protective transformer
- The auxiliary switch function can be tested by the test push-button on the front panel of the device

Auxiliary and relative switch S-LSN2001

- Accessories to: LSN, LSE, ASN
- The auxiliary and relative switch is designed for signalling the position of the main contacts of miniature circuit breakers and tumbler power switches in tripping:
 - by releases or manually i.e. in tripping by overload, short-circuit, shunt trip, overvoltage release or control lever. This is signalled by auxiliary switches – terminals 33-34, 23-24
 - only by releases i.e. only in tripping by overload, short-circuit, shunt trip or overvoltage release.
 This is signalled by so called relative switch – terminals 95-96
- The auxiliary switch function can be tested by the test push-button on the front panel of the device

Auxiliary and relative switches

Contact	Туре	Product	Weight	Packing
sequence 1)		code	[kg]	[pcs]
11	S-LSN11	01494	0.05	1
21	S-LSN21	01495	0.05	1
2001	S-LSN2001	01498	0.05	1

¹⁾ Each digit indicates successively the number of make, break, break-make and relative contacts

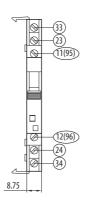
Specification

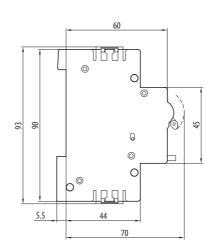
Туре			S-LSN11, S-LSN21	S-LSN2001
Standards			EN 60 947-5-1	EN 60 947-5-1
Approval marks			® € C €	
Contact sequence 1) 2)			11, 21	2001
Rated operating voltage / current	AC-1	U _e /I _e	230 V/6 A	230 V/6 A
	AC-15	U _e /I _e	230 V/4 A or 400 V/2 A	-
	DC-1	U _e /I _e	-	220 V/1 A
	DC-13	U _e /I _e	220 V/1 A	-
Rated impulse withstand voltage		U _{imp}	4 kV	2.5 kV
Endurance			10 000 operating cycles	10 000 operating cycles
Degree of protection			IP20	IP20
Mounting			on right side	on right side
Connection - conductor	rigid		$0.75 \div 4 mm^2$	$0.75 \div 4\text{mm}^2$
	flexible		0.75 ÷ 2.5 mm ²	$0.75 \div 2.5 \text{ mm}^2$
Seismic immunity (8÷50 Hz)			3 g	3 g

¹⁾ Each digit indicates successively the number of make, break, break-make and relative contacts

Dimensions





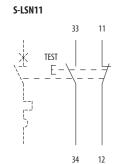


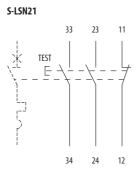
²⁾ Another possibility to achieve a higher number or a different sequence of contacts: install V101-LSN... shunt trip on the left side of the device and use only the auxiliary switch function

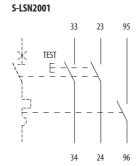


AUXILIARY AND RELATIVE SWITCHES

Diagram

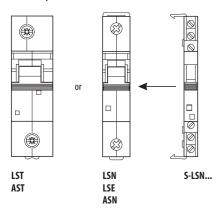






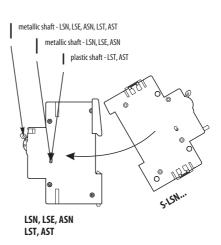
Assembly and installation of auxiliary switches

Assembly



Installation of an auxiliary switch on a miniature circuit breaker or tumbler power switch (hereinafter only the device):

- 1. Switch on both the auxiliary switch and the device.
- 2. Insert one shaft into the control lever of the device and the second shaft (for LST, AST the shaft is plastic) into the hole in the switching system of the device.
- 3. Slide the auxiliary switch from the right onto the device in such a way that one shaft interconnects control levers and the other interconnects the switching systems.
- 4. Press the auxiliary switch to the device and click the side fixing latches of the auxiliary switch into the device recess.
- 5. Check correct function by switching.





SHUNT TRIPS



- Accessories to: LSN, LST, LSE, ASN, AST
- For tripping the miniature circuit breakers or tumbler power switch by applied voltage between 70 % and 110 % U
- For signalling the position of the main contacts of the miniature circuit breaker or tumbler power switch by make or break-make contact
- The shunt trip coil is connected to terminals A1 and A2 to ensure its disconnection from the control voltage in the device trip. So the coil is powered for a required time. The disconnection is provided by the contact in the circuit between the terminals A1 and A2.
- Shunt trips V101-LSN contains additionally an auxiliary switch with break-make contact

Shunt trips

U _n	Contact sequence - 1	0 1)	Contact sequence - 10)1 ¹⁾	Weight	Packing
AC/DC [V]	Туре	Product code	Туре	Product code	[kg]	[pcs]
24 / 24	V10-LSN-X024	08487	V101-LSN-X024	08497	0.12	1
48 / 48	V10-LSN-X048	08488	V101-LSN-X048	08755	0.12	1
110 / 110	V10-LSN-X110	08489	V101-LSN-X110	08926	0.12	1
230 / 220	V10-LSN-X230	08490	V101-LSN-X230	08498	0.12	1
400 / 440	V10-LSN-X400	08491	V101-LSN-X400	08499	0.12	1

¹⁾ Each digit indicates successively the number of make, break and break-make contacts

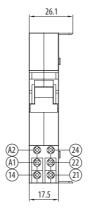
Specification

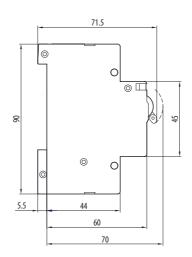
Туре			VLSN
Standards			EN 60 947-1
Coil			
Rated operating voltage		U _e	24, 48, 110, 230, 400 V a.c.
			24, 48, 110, 220, 440 V d.c.
Rated frequency		f _n	40 ÷ 60 Hz
Max. starting input power			90 VA
Break time		10 ms	
Contact			
Sequence 1)			10, 101
Rated operating voltage / current	AC-1	U_e/I_e	230 V / 4 A or 400 V / 2 A
	DC-1	U_{e}/I_{e}	220 V / 0.5 A
	AC-15	U_{e}/I_{e}	230 V / 2 A
Endurance			10 000 operating cycles
Other data			
Mounting			on the left side
Connection - conductor rigid and flexible			$0.75 \div 2.5 \text{ mm}^2$
Degree of protection			IP20
Seismic immunity (8÷50 Hz)			1.5 g

¹⁾ Each digit indicates successively the number of make, break and break-make contacts

Dimensions

V...-LSN



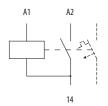


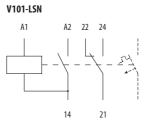


SHUNT TRIPS

Diagram

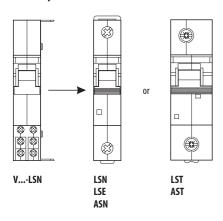
V10-LSN





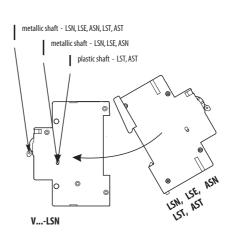
Assembly and installation of shunt trips

Assembly



Installation of a shunt trip on a miniature circuit breaker or tumbler power switch (hereinafter only the device):

- $1. \, Switch \, off \, both \, the \, shunt \, trip \, and \, the \, device.$
- 2. Insert one shaft into the control lever of the shunt trip and the second shaft (for LST, AST the shaft is plastic) into the hole in the switching system of the shunt trip.
- 3. Slide the device from the right onto the shunt trip in such a way that one shaft interconnects control levers and the other interconnects the switching systems.
- 4. Press the device to the shunt trip and click the side fixing latches of the shunt trip into the device recess.
- 5. Check correct function by switching





UNDERVOLTAGE RELEASES



- Accessories to: LSN, LST, LSE, ASN, AST
- For tripping the miniature circuit breaker or tumbler power switch at voltage drop between 70 % and 35 % U.
- For tripping the miniature circuit breaker or tumbler power switch on pressing the switch-off push-button
- For elimination of miniature circuit breakers or tumbler power switch closing at voltage lower than 35 % on the undervoltage release (the closing is possible at U≥85 % U_)
- It is frequently used for protection against motor restart after the mains failure
- Undervoltage releases N101-LSN contain in addition an auxiliary switch with make and break-make contact for signalling the position of main contacts of the miniature circuit breaker or tumbler power switch

Undervoltage releases

Un	Without contacts		Contact sequence - 10)1 ¹⁾	Weight	Packing
AC [V]	Туре	Product code	Туре	Product code	[kg]	[pcs]
24	N-LSN-A024	08475	N101-LSN-A024	08485	0.12	1
48	N-LSN-A048	08476	N101-LSN-A048	09053	0.12	1
110	N-LSN-A110	08477	N101-LSN-A110	09055	0.12	1
230	N-LSN-A230	08478	N101-LSN-A230	08486	0.12	1
400	N-LSN-A400	08479	N101-LSN-A400	08927	0.12	1

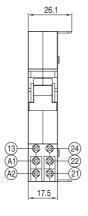
Specification

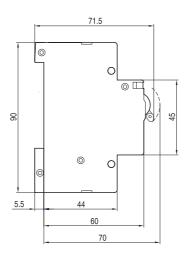
Туре			NLSN
Standards			EN 60 947-1
Coil			
Rated operating voltage		U _e	24, 48, 110, 230, 400 V a.c.
Rated frequency		f_	40 ÷ 60 Hz
Consumption			2.5 W
Max. starting input power			90 VA
Break time			25 ms
Contact			
Sequence 1)			0, 101
Rated operating voltage/current	AC-1	$U_{\rm e}/I_{\rm e}$	230 V / 4 A or 400 V / 2 A
	DC-1	$U_{\rm e}/I_{\rm e}$	220 V / 0.5 A
	AC-15	$U_{e}^{}/I_{e}^{}$	230 V / 2 A
Endurance			10 000 operating cycles
Other data			
Mounting			on the left side
Connection			$0.75 \div 2.5 \text{ mm}^2$
Degree of protection			IP20
Operating position			vertical
Seismic immunity (8÷50 Hz)			3 g

¹⁾ Each digit indicates successively the number of make, break and break-make contacts

Dimensions

N...-LSN

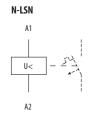


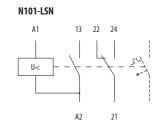




UNDERVOLTAGE RELEASES

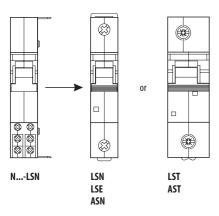
Diagram





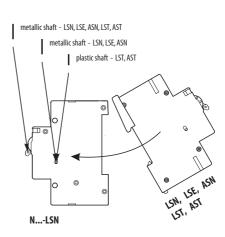
Assembly and installation of undervoltage releases

Assembly



Installation of an undervoltage release on a miniature circuit breaker or tumbler power switch (hereinafter only the device):

- 1. Switch off both the undervoltage release and the device.
- Insert one shaft into the control lever of the undervoltage release and the second shaft (for LST, AST the shaft is plastic) into the hole in the switching system of the undervoltage release.
- Slide the device from the right onto the undervoltage release in such a way that one shaft interconnects control levers and the other interconnects the switching systems.
- 4. Press the device to the undervoltage release and click the side fixing latches of the undervoltage release into the device recess.
- 5. Check correct function by switching





LOCKING INSERT, LABELS







Locking insert VU-LSN

- Accessories to: LSN, LSE, ASN, MS
- For reliable locking in both closed and open positions
- The breaking function of miniature circuit breakers is possible also in the locked position
- Max. diameter of the lock shank 4.5 mm
- The padlock is not a part of delivery

Label P...-LSN

- Accessories to: LSN, ASN, MS, MT, MK, M2T, MCR, IR116K, C-IR, D-IR, PR116, PR208, . . .
- For better orientation in the switchboard
- Use spirit marker for description of blank labels

Locking insert

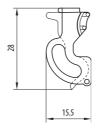
Туре	Product	Weight	Packing
	code	[kg]	[pcs]
VU-LSN	09087	0.002	1

Labels

Description	Colour	Туре	Product	Weight	Packing
			code	[kg]	[pcs]
		PB-LSN	01499	0.001	20
L1		PB07-LSN	01506	0.001	20
L2		PB08-LSN	01507	0.001	20
L3		PB09-LSN	01508	0.001	20
		PW-LSN	01509	0.001	20

Dimensions

VU-LSN





INTERCONNECTING BUSBARS AND END CAPS

Interconnecting busbars

- For interconnection of 1 to 4-pole circuit breakers, tumbler power switches, residual current circuit breakers, lightning current arresters and surge voltage arresters
- For interconnection of a series of single-phase or three-phase circuit breakers and tumbler power switches, on which an auxiliary switch is mounted
- Busbars G-... with forks into the head part of the device
 Busbars S-... with pins into the clip part of the device

End cap EK-C-2+3:

■ To cover end of busbar G-2L-1000/16, G-3L-1000/16C, S-3L-27-1000/16

End cap EK-C-3/36:

■ To cover end of busbar S-3L-27-1000/25

End cap EK-C-4/16:

■ To cover end of busbar G-4L-1000/16



■ To cover end of busbar G-3L-1000/10C

Interconnecting busbars

Phase	Cross -	Max. curr	ent at power	Length	Туре	Product	Accessories to	Weight	Packing
	section	supply o	of [A/phase]	[mm]		code		[kg]	[pcs]
	[mm ²]	end	middle						
1	12	65	110	1000	G-1L-1000/12	00171	LSN, LSE, ASN	0.22	50
					G-1L-1000/12g 1)	00170	LSN, LSE, ASN	0.1	50
	16	80	130	210	S-1L-210/16iso	13012	LSN, LSE, SVL, SJL, ASN	0.045	50
	20	90	150	1000	G-1L-1000/20	00172	LSN, LSE, SJB, SVM, ASN	0.36	50
	24	100	180	1000	G-1L-27-1000/24 ²⁾	11001	LSN, LSE, ASN	0.3	50
2	16	80	130	1000	G-2L-1000/16	11179	LSN, LSE, LFI, LFE, OFI, OFE, ASN	0.46	20
3	10	63	100	1000	G-3L-1000/10C	00173	LSN, LSE, ASN	0.44	20
	16	80	130	1000	G-3L-1000/16C	00174	LSN, LSE, OFI, OFE, SJB, SVM, ASN	0.72	20
					G-3L+9-1000/16 2)	11002	LSN, LSE, ASN	0.66	10
					S-3L-27-1000/16 ³⁾	11864	LSN, LST, LSE, ASN, AST	0.52	20
	25	100	180	1000	S-3L-27-1000/25 3)	11865	LSN, LST, LSE, ASN, AST	0.96	10
4	16	80	130	1000	G-4L-1000/16	11180	LSN, LSE, OFI, OFE, ASN	0.96	15

¹⁾ The busbar is uninsulated

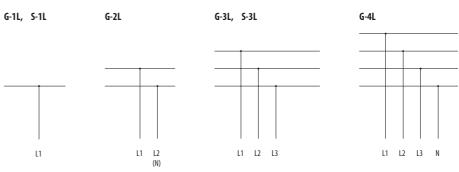
End caps

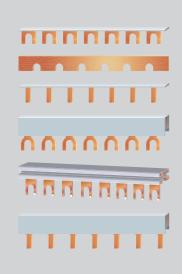
Туре	Product	Accessories to	Weight	Packing
	code		[kg]	[pcs]
EK-C-3	00178	G-3L-100/10C	0.001	10
EK-C-2+3	00181	G-2L-1000/16, G-3L-1000/16C, S-3L-27-1000/16	0.001	10
EK-C-3/36	11176	S-3L-1000/25	0.002	10
EK-C-4/16	11181	G-4L-1000/16	0.002	10

Specification

Туре		G-1L, G-2L, G-3L, G-4L, S-1L, S-3L
Rated operating voltage	U _e	230/400 V a.c., 220/440 V d.c.
Load current		63 ÷ 180 A
Length		210, 1000 mm
Cross-section		10 ÷ 25 mm ²

Diagram













²⁾ For 1-pole or 3-pole devices with an auxiliary switch

³⁾ For 3-pole LST; for 1-pole LSN, LSE, ASN with an auxiliary switch



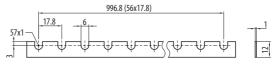
INTERCONNECTING BUSBARS AND END CAPS

Dimensions

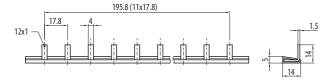
G-1L-1000/12



G-1L-1000/12g



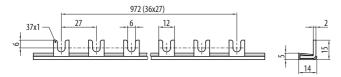
S-1L-210/16iso



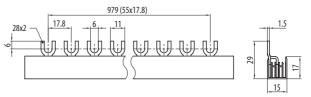
G-1L-1000/20



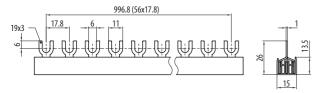
G-1L-27-1000/24



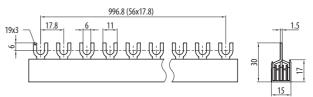
G-2L-1000/16



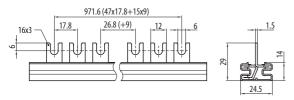
G-3L-1000/10C



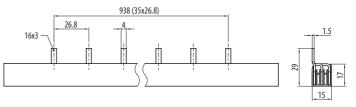
G-3L-1000/16C



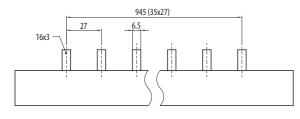
G-3L+9-1000/16C



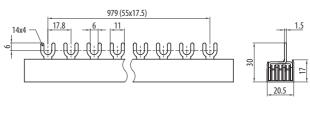
S-3L-27-1000/16



S-3L-27-1000/25



G-4L-1000/16





CONNECTING ADAPTERS AND BLOCKS



Connecting adapter AS/25-GN

- Accessories to: LSN, LSE, LFI, LFE, OFI, OFE, SJB, SVM, ASN
- For connection of another conductor to the head part of the terminal of a circuit breaker or tumbler power switch
- For example, it the best solution is to connect a conductor for power supply of an electric meter in the clip part of the circuit breaker terminal, and another conductor through the connecting adapter AS/25-GN in the head part of the circuit breaker terminal
- Conductor cross-section: 6 ÷ 25 mm²

Connecting adapter AS/25-SN

- Accessories to: OFI20, OFE20, SVL, SJL, RP1
- For connection of conductor to the clip part of the terminal of a circuit breaker or tumbler power switch
- Conductor cross-section: 6 ÷ 25 mm²

Connecting adapter AS-AL/Cu-16-50

- Accessories to: LSN, LST, LSE, LFI, LFE, SJBplus, ASN, AST
- For connection of Al or Cu conductors
- Cross-section of Cu conductors: 2.5 ÷ 50 mm²
- Cross-section of Al conductors: 16 ÷ 50 mm²

Connecting adapter CS-FH000-...NP95

- Accessories to: LST, SJBplus, SJB100/NPE/1,5, AST
- For connection of Cu/Al conductors of cross-section 35 ÷ 95 mm²
- Connecting adapter with straight terminal

Connecting adapter CS-FH000-3NV95

- Accessories to: LST, SJBplus, SJB100/NPE/1,5, AST
- For connection of Cu/Al conductors of cross-section $35 \div 95 \text{ mm}^2$
- Connecting adapter with outbowed terminal

Connecting adapter N3x10-FH000

- Accessories to: LST, SJB, SVM, AST
- For connection of 3 conductors/pole of the device of cross-section 10 mm²

Connection block ES/35S/G

- Accessories to: G-1L, G-2L, G-3L, G4-L, S-1L, S-3L
- It enables power supply of interconnecting busbars of conductors of section up to 35 mm²
- The blocks can be installed in series to create a multiplepole connection block
- Degree of protection IP20

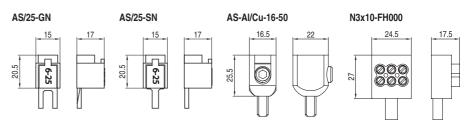
Connecting adapters

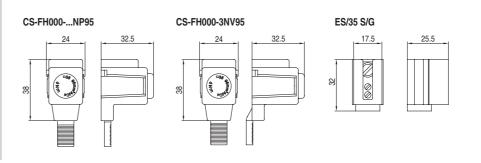
Product	Weight	Accessories	Set	Packing
code	[kg]	to	[pcs]	[pcs]
00177	0.012	LSN, LSE, LFI, LFE, OFI, OFE, SJB, SVM, ASN	1	10
00176	0.013	OFI20, OFE20, SVL, SJL, RP1	1	10
18351	0.016	LSN, LST, LSE, LFI, LFE, SJB <i>plus</i> , ASN, AST	1	15
13740	0.1	LST, SJBplus, SJB100/NPE/1,5, AST	3	1
14378	0.1	LST, SJBplus, SJB100/NPE/1,5, AST	1	1
13742	0.1	LST, SJB <i>plus</i> , SJB100/NPE/1,5, AST	3	1
14127	0.02	LST, SJB, SVM, AST	3	1
	code 00177 00176 18351 13740 14378	code [kg] 00177 0.012 00176 0.013 18351 0.016 13740 0.1 14378 0.1 13742 0.1	code [kg] to 00177 0.012 LSN, LSE, LFI, LFE, OFI, OFE, SJB, SVM, ASN 00176 0.013 OFI20, OFE20, SVL, SJL, RP1 18351 0.016 LSN, LST, LSE, LFI, LFE, SJBplus, ASN, AST 13740 0.1 LST, SJBplus, SJB100/NPE/1,5, AST 14378 0.1 LST, SJBplus, SJB100/NPE/1,5, AST 13742 0.1 LST, SJBplus, SJB100/NPE/1,5, AST	code [kg] to [pcs] 00177 0.012 LSN, LSE, LFI, LFE, OFI, OFE, SJB, SVM, ASN 1 00176 0.013 OFI20, OFE20, SVL, SJL, RP1 1 18351 0.016 LSN, LST, LSE, LFI, LFE, SJBplus, ASN, AST 1 13740 0.1 LST, SJBplus, SJB100/NPE/1,5, AST 3 14378 0.1 LST, SJBplus, SJB100/NPE/1,5, AST 1 13742 0.1 LST, SJBplus, SJB100/NPE/1,5, AST 3

Connection block

Туре	Product	Weight	Packing
	code	[kg]	[pcs]
ES/35 S/G	00175	0.03	10

Dimensions







INTERCONNECTING MODULE



- Accessories to all modular devices
- It is used as a connecting element between input and output terminals in a series of modular devices
- It covers free spaces between individual devices in series
- Possibility of interconnection with LSN, LSE, ASN by means of busbars

Interconnecting module

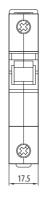
Туре	Product	Weight	Packing
	code	[kg]	[pcs]
PSN	07450	0.08	12

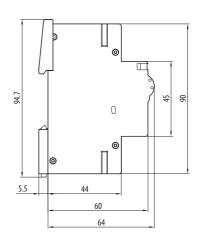
Specification

Туре			PSN
Approval marks			® € € € ♥
Number of poles			1
Rated operating voltage		U_{e}	230/400 V a.c., 250/440 V d.c.
Rated current		I,	80 A
Mounting on the rail DIN EN 50 022 width			35 mm
Ambient temperature			-25 ÷ +55 ℃
Degree of protection			IP20
Connection	Cu conductor - rigid (solid, stranded)		$0.5 \div 25 \text{ mm}^2$, $2x (0.5 \div 10) \text{ mm}^2$
	Cu conductor - flexible		$0.5 \div 16 \text{ mm}^2$
	rail — thickness		2 mm
	tightening torque		2 Nm
	opposite		yes
Seismic immunity (8 ÷ 50 Hz)			5 g

Dimensions

PSN





Diagram

PSN

