

# SALTEK®



## FLP-B+C MAXI VS

**NEW 100 kA**  
**T1 T2**

## FLP-B+C MAXI VS

### SPD type 1 – combined arrester type 1 and 2

Surge protector devices (SPD) of class B+C serve for protection of low-voltage (230/400 V AC) networks and connected appliances against surge voltages due to direct - and indirect lightning strikes.

The FLP-B+C MAXI SPD is built in a single block.

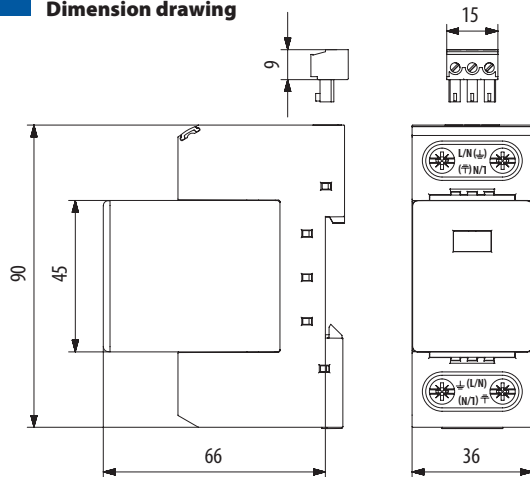
Module offers a combination of heavy duty gas discharge tube (GDT) rated at 25 kA (10/350  $\mu$ sec pulse) with high energy varistors block. This module guarantee no follow-on current, very low leakage current ( $\mu$ A range) and very low residual voltage.

The form a part of the protection of buildings and their accessories in the concept of zone lightning protection at the boundary of the LPZ 0 and LPZ 1 (or higher) zones.

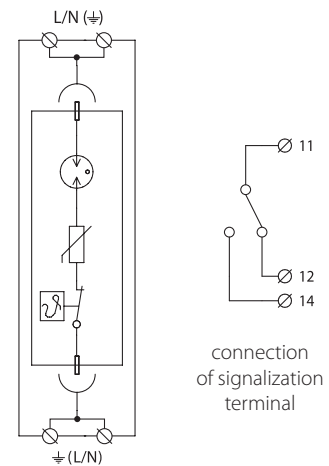
- reliable arrester disconnection during overload or damaging of the protective module by thermal and dynamical varistor disconnection
- optical fault indication – changing color of the signaling flag from green to red
- low voltage Up
- housing material according to UL 94 V0
- complies to IEC 61643-1:2005
- UL 1449 ed.2 standard compliancy in request




#### Dimension drawing



#### Basic circuit diagram



#### Technical data

		FLP-B+C MAXI VS
Nominal voltage	$U_n$	230 V AC
Maximum operating voltage	$U_c$	260 V AC
Nominal discharge current (8/20 $\mu$ s)	$I_n$	30 kA
Lightning impulse current (10/350 $\mu$ s)	$I_{imp}$	25 kA
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	60 kA
Voltage protection level	$U_p$	1,5 kA
Response time	$t_a$	100 ns
Ability to independently switch off the following current	$I_{fi}$	no following current
Short-circuit proof at maximum overcurrent protection		50 kA <sub>rms</sub>
Maximum overcurrent protection		250 A gL/gG
Maximum overcurrent protection for serial connection		125 A gL/gG
Degree of protection		IP 20
Range of operating temperatures		- 40 °C ... + 80 °C
Mounting on		DIN rail 35 mm
Cross-section of connected conductors		
Solid min/max		ISO: 10/50 mm <sup>2</sup> ; AWG: 7/1
Stranded min/max		ISO: 10/35 mm <sup>2</sup> ; AWG: 7/2
Stripping length of the supply conductor		14 mm
Tightening torque		max. 4 Nm
Visual fault indication		red indication field
Remote indication – S design		potential-free change-over contact
Remote indication contacts		250 V / 0,5 A AC, 250 V / 0,1 A DC
Cross-section of remote indication conductors		max. 1,5 mm <sup>2</sup>
Meets the requirements of standard		EN 61643-11 + A11 
Ordering number		8595090535331

## FLP-B+C MAXI V/3S

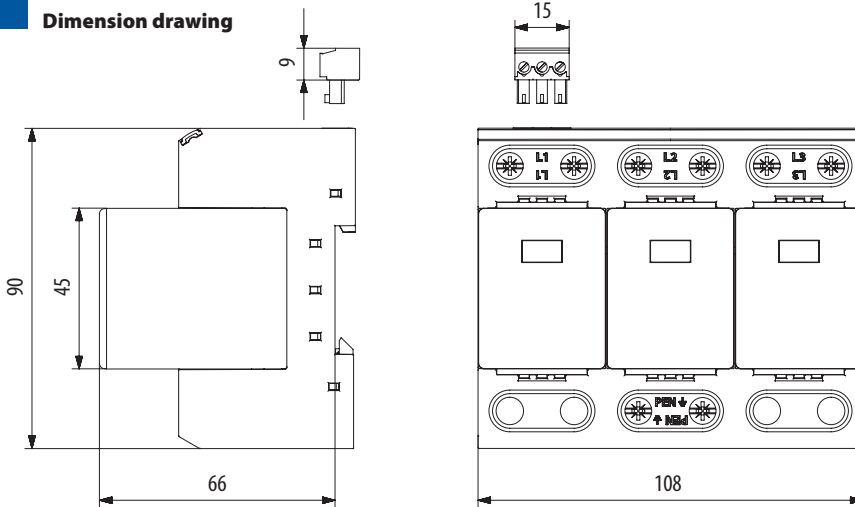
### SPD type 1 – combined arrester type 1 and 2

Highly efficient varistor lightning current arrester to be installed in low-voltage distributions at the boundary of LPZ 0<sub>A</sub>–LPZ 1 zones and higher, to prevent overvoltage effects induced during direct or indirect lightning strikes. It is particularly suitable for residential houses and small buildings with a low-voltage cable terminal or for secondary switchboards in large building.

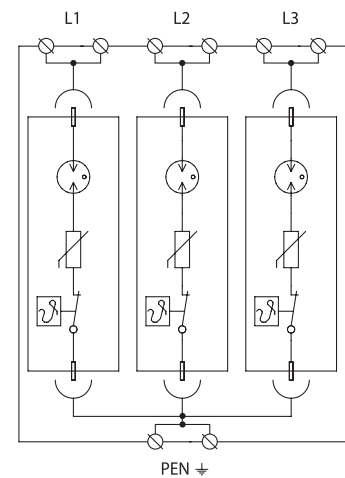
- Visual fault signalling
- Optional remote status signalling (S).



#### Dimension drawing



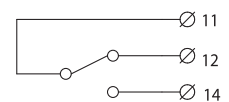
#### Basic circuit diagram



#### Technical data

#### FLP-B+C MAXI V/3S

Nominal voltage	$U_n$	230 V AC
Maximum operating voltage	$U_c$	260 V AC
Nominal discharge current (8/20 $\mu$ s)/pole	$I_n$	30 kA
Maximum discharge current (8/20 $\mu$ s)/pole	$I_{max}$	60 kA
Lightning impulse current (10/350 $\mu$ s)/pole	$I_{imp}$	25 kA
Voltage protection level	$U_p$	1,5 kV
Response time	$t_a$	100 ns
Ability to independently switch off the following current	$I_n$	no following current
Short-circuit proof at maximum overcurrent protection		50 kA <sub>rms</sub>
Maximum overcurrent protection		250 A gL/gG
Maximum overcurrent protection for serial connection		125 A gL/gG
Degree of protection		IP 20
Range of operating temperatures		- 40 °C ... + 80 °C
Mounting on		DIN rail 35 mm
Cross-section of connected conductors		
Solid min/max		ISO: 10/50 mm <sup>2</sup> ; AWG: 7/1
Stranded min/max		ISO: 10/35 mm <sup>2</sup> ; AWG: 7/2
Stripping length of the supply conductor		11 mm
Tightening torque		max. 4 Nm
Visual fault indication		red indication field
Remote indication		potential-free change-over contact
Remote indication contacts		250 V / 0,5 A AC, 250 V / 0,1 A DC
Cross-section of remote indication conductors		max. 1,5 mm <sup>2</sup>
Meets the requirements of standard		EN 61643-11 + A11
Ordering number		8595090535706



connection of  
signalization terminal

## FLP-B+C MAXI V/4 S

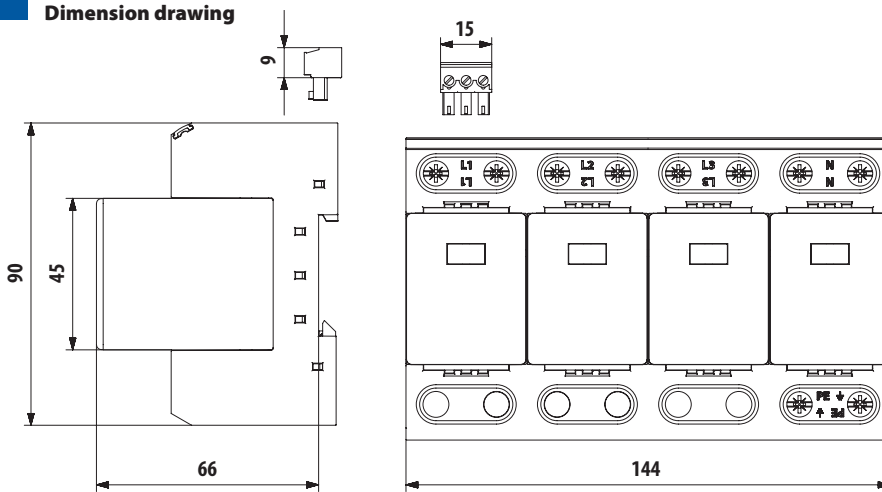
### SPD type 1 – combined arrester type 1 and 2

Highly efficient, 4-pole varistor lightning current arrester to be installed in low-voltage distributions at the boundary of LPZ 0<sub>A</sub>–LPZ 1 zones and higher, to prevent overvoltage effects induced during direct or indirect lightning strikes. It is particularly suitable for residential houses and small buildings with a low-voltage cable terminal or for secondary switchboards in large building.

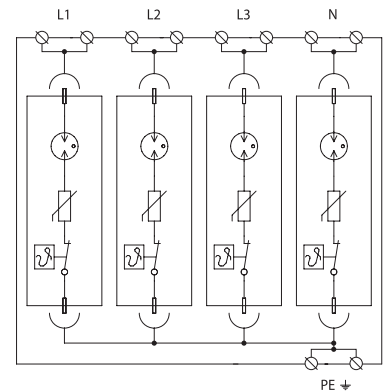
- Visual fault signalling
- Optional remote status signalling (S).




#### Dimension drawing

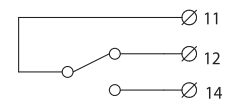


#### Basic circuit diagram



#### Technické parametry

		FLP-B+C MAXI/4
Nominal voltage	$U_n$	230 V AC
Maximum operating voltage	$U_c$	260 V AC
Nominal discharge current (8/20 $\mu$ s)/pole	$I_n$	30 kA
Maximum discharge current (8/20 $\mu$ s)/pole	$I_{max}$	60 kA
Lighting impulse current (10/350 $\mu$ s)/pole	$I_{imp}$	25 kA
Voltage protection level	$U_p$	1,5 kV
Response time	$t_a$	100 ns
Ability to independently switch off the following current	$I_{fi}$	no following current
Short-circuit proof at maximum overcurrent protection		50 kA <sub>rms</sub>
Maximum overcurrent protection		250 A gL/gG
Maximum overcurrent protection for serial connection		125 A gL/gG
Degree of protection		IP 20
Range of operating temperatures		- 40 °C ... + 80 °C
Mounting on		DIN rail 35 mm
Cross-section of connected conductors		
Solid min/max		ISO: 10/50 mm <sup>2</sup> ; AWG: 7/1
Stranded min/max		ISO: 10/35 mm <sup>2</sup> ; AWG: 7/2
Stripping length of the supply conductor		11 mm
Tightening torque		max. 4 Nm
Visual fault indication		red indication field
Remote indication – S design		potential-free change-over contact
Remote indication contacts		250 V / 0,5 A AC, 250 V / 0,1 A DC
Cross-section of remote indication conductors		max. 1,5 mm <sup>2</sup>
Meets the requirements of standard		EN 61643-11 + A11 
Ordering number		8595090535713



connection of  
signalization terminal

# FLP-B+C MAXI V/3S+1

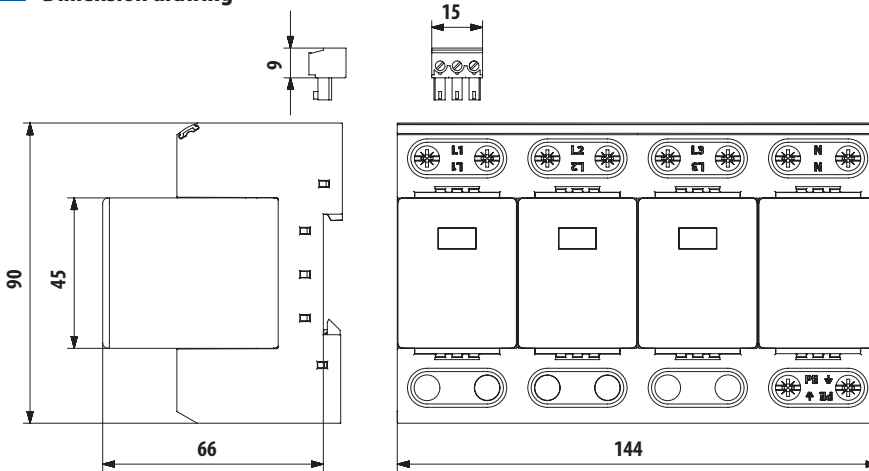
## SPD type 1 and type 2- combined arrester type 1 and 2

Highly efficient varistor lightning current arrester to be installed in low-voltage distributions at the boundary of LPZ 0<sub>A</sub>-LPZ 1 zones and higher, to prevent overvoltage effects induced during direct or indirect lightning strikes. It is particularly suitable for residential houses and small buildings with a low-voltage cable terminal or for secondary switchboards in large building.

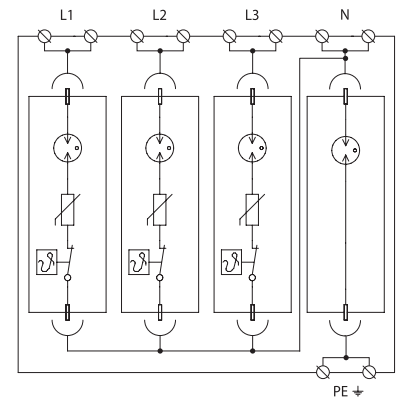
- Visual fault signalling
- Optional remote status signalling (S).



### Dimension drawing

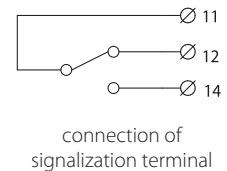


### Basic circuit diagram



### Technical data

		L-N	N-PE
Nominal voltage	$U_n$	230 V AC	—
Maximum operating voltage	$U_c$	260 V AC	255 V AC
Nominal discharge current (8/20 $\mu$ s)/pole	$I_n$	30 kA	100 kA
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	60 kA	100 kA
Lighting impulse current (10/350 $\mu$ s)/pole	$I_{imp}$	25 kA	100 kA
Voltage protection level	$U_p$	1,5 kV	1,5 kV
Response time	$t_a$	100 ns	100 ns
Ability to independently switch off the following current	$I_n$	no following current	100 A
Short-circuit proof at maximum overcurrent protection		50 kA <sub>rms</sub>	—
Maximum overcurrent protection		250 A gL/gG	—
Maximum overcurrent protection for serial connection		125 A gL/gG	—
Degree of protection		IP 20	IP 20
Range of operating temperatures		-40 °C ... +80 °C	-40 °C ... +80 °C
Mounting on		DIN rail 35 mm	DIN rail 35 mm
Cross-section of connected conductors			
Solid min/max		ISO: 10/50 mm <sup>2</sup> ; AWG: 7/1	ISO: 10/50 mm <sup>2</sup> ; AWG: 7/1
Stranded min/max		ISO: 10/35 mm <sup>2</sup> ; AWG: 7/2	ISO: 10/35 mm <sup>2</sup> ; AWG: 7/2
Stripping length of the supply conductor		11 mm	11 mm
Tightening torque		max. 4 Nm	max. 4 Nm
Visual fault indication		red indication field	no
Remote indication*		potential-free change-over contact	—
Remote indication contacts		250 V / 0,5 A AC, 250 V / 0,1 A DC	—
Cross-section of remote indication conductors		max. 1,5 mm <sup>2</sup>	—
Meets the requirements of standard		EN 61643-11 + A11	EN 61643-11 + A11
Ordering number		8595090535720	



\* Remote signalling of N-PE module shows the presence of the replaceable module

## FLP-A50N VS

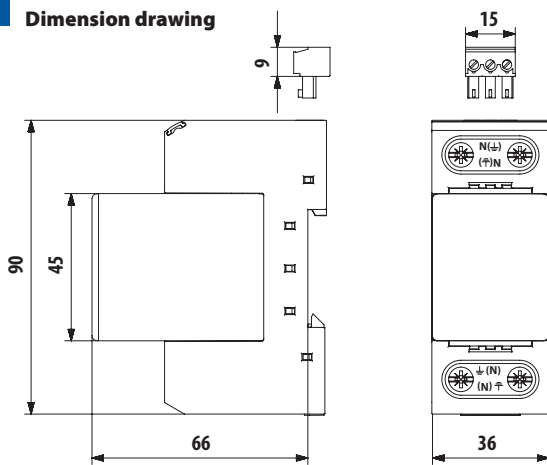
### SPD type 1 – lightning current arrester

N-PE module, replaceable module

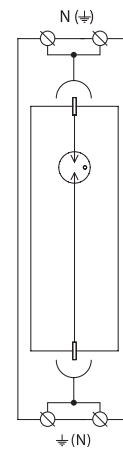
To be installed in low-voltage distributions at the boundary of LPZ 0<sub>A</sub>–LPZ 1 zones and higher to prevent overvoltage effects induced during direct or indirect lightning strikes for the connection of SPD type 1 in the mode 1+1.



#### Dimension drawing



#### Basic circuit diagram



#### Technical data

		FLP-A50N V
Nominal voltage	$U_n$	—
Maximum operating voltage	$U_c$	255 V AC
Nominal discharge current (8/20 $\mu$ s)	$I_n$	50 kA
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	100 kA
Lightning impulse current (10/350 $\mu$ s)	$I_{imp}$	50 kA
Voltage protection level	$U_p$	1,5 kV
Response time	$t_a$	100 ns
Ability to independently switch off the following current	$I_{ri}$	100 A
Short-circuit proof at maximum overcurrent protection		—
Maximum overcurrent protection		—
Degree of protection		IP 20
Range of operating temperatures		-40 °C ... +80 °C
Mounting on		DIN rail 35 mm
Cross-section of connected conductors		
Solid min/max		ISO: 10/50 mm <sup>2</sup> ; AWG: 7/1
Stranded min/max		ISO: 10/35 mm <sup>2</sup> ; AWG: 7/2
Stripping length of the supply conductor		11 mm
Tightening torque		max. 4 Nm
Visual fault indication		no
Remote indication *		potential-free change-over contact
Remote indication contacts		250 V / 0,5 A AC, 250 V / 0,1 A DC
Cross-section of remote indication conductors		max. 1,5 mm <sup>2</sup>
Meets the requirements of standard		EN 61643-11 + A11
Ordering number		8595090535737

\* Remote signalling of N-PE module shows the presence of the replaceable module

## FLP-A100N VS

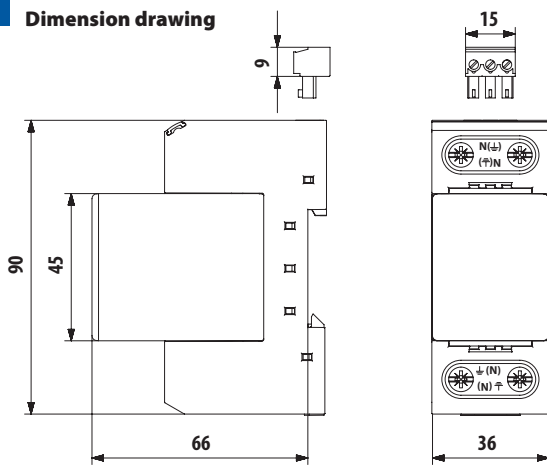
### SPD type 1 – lightning current arrester

N-PE module, replaceable module

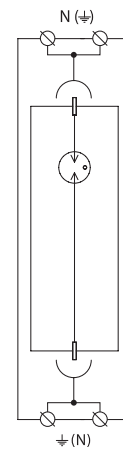
To be installed in low-voltage distributions at the boundary of LPZ 0<sub>A</sub> and LPZ 1 zones to prevent overvoltage effects induced during direct or indirect lightning strikes for the connection of SPD type 1 in the mode 3+1.



#### Dimension drawing



#### Basic circuit diagram



#### Technical data

		FLP-A100N V
Nominal voltage	$U_n$	—
Maximum operating voltage	$U_c$	255 V AC
Nominal discharge current (8/20 $\mu$ s)/pole	$I_n$	100 kA
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	100 kA
Lighting impulse current (10/350 $\mu$ s)/pole	$I_{imp}$	100 kA
Voltage protection level	$U_p$	1,5 kV
Response time	$t_a$	100 ns
Ability to independently switch off the following current	$I_f$	100 A
Short-circuit proof at maximum overcurrent protection		—
Maximum overcurrent protection		—
Degree of protection		IP 20
Range of operating temperatures		-40 °C ... +80 °C
Mounting on		DIN rail 35 mm
Cross-section of connected conductors		
Solid min/max		ISO: 10/50 mm <sup>2</sup> ; AWG: 7/1
Stranded min/max		ISO: 10/35 mm <sup>2</sup> ; AWG: 7/2
Stripping length of the supply conductor		11 mm
Tightening torque		max. 4 Nm
Visual fault indication		no
Remote indication *		potential-free change-over contact
Remote indication contacts		250 V / 0,5 A AC, 250 V / 0,1 A DC
Cross-section of remote indication conductors		max. 1,5 mm <sup>2</sup>
Meets the requirements of standard		EN 61643-11 + A11
Ordering number		8595090535744

\* Remote signalling of N-PE module shows the presence of the replaceable module

**FLP-B+C MAXI VS – efficient combined lightning current and surge arrester integrated in removable module with remote signalling**

**FLP-B+C MAXI VS**  
single module

25 kA

Ordering number:  
8595090535331



**FLP-B+C MAXI V/3S**  
3-phase TN-C

75 kA

Ordering number:  
8595090535706



**FLP-B+C MAXI V/4S**  
3-phase TN-S

100 kA

Ordering number:  
8595090535713



**FLP-B+C MAXI V/3S+1**  
3-phase TT

100 kA

Ordering number:  
8595090535720



**FLP-A50N VS / FLP-A100N VS**  
N-PE module

50 kA / 100 kA

Ordering number:

8595090535737 / 8595090535744



**Manufacture and headquarter:**

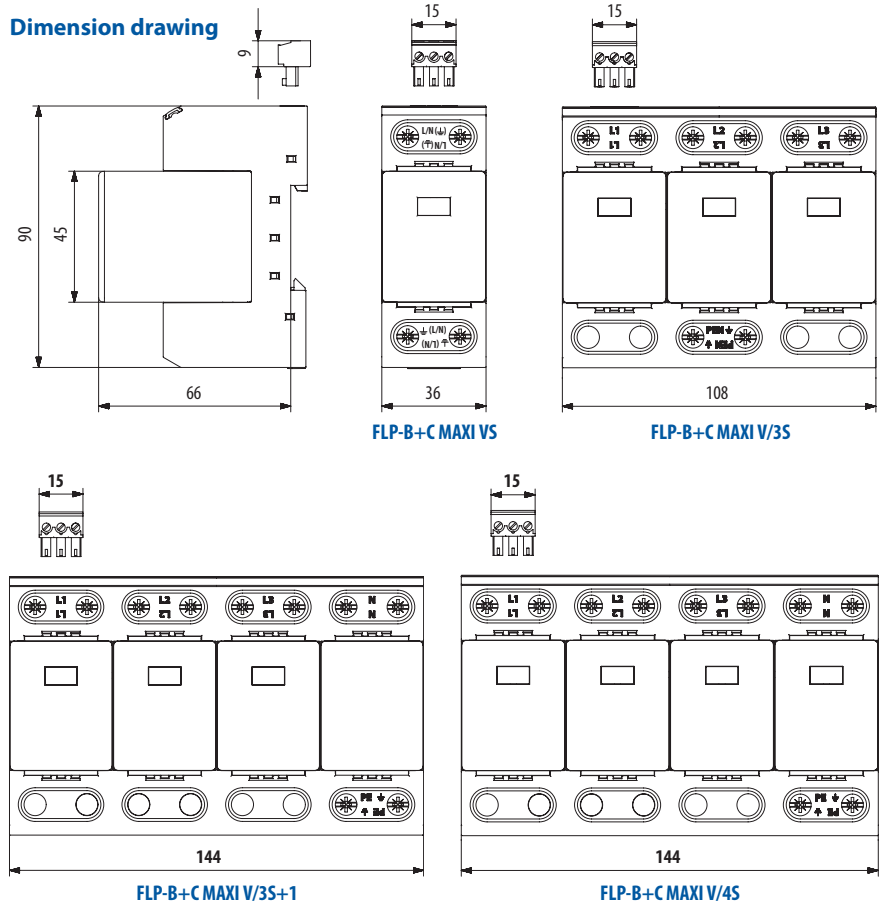
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tel.: +420 475 655 511, fax: +420 475 655 513,  
GSM: +420 602 413 437, e-mail: info@saltek.cz





**Sales office and technical support:**

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[www.saltek.eu](http://www.saltek.eu)

**Dimension drawing**



Technical data		L-N	N-PE
Nominal voltage	$U_n$	230 V AC	—
Maximum operating voltage	$U_c$	260 V AC	255 V AC
Nominal discharge current (8/20 $\mu$ s)/pole	$I_n$	30 kA	100 kA
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	60 kA	100 kA
Lighting impulse current (10/350 $\mu$ s)/pole	$I_{imp}$	25 kA	100 kA
Voltage protection level	$U_p$	1,5 kV	1,5 kV
Response time	$t_a$	100 ns	100 ns
Ability to independently switch off the following current	$I_{fin}$	no following current	100 A
Short-circuit proof at maximum overcurrent protection		50 kA <sub>ms</sub>	—
Maximum overcurrent protection		250 A gL/gG	—
Maximum overcurrent protection for serial connection		125 A gL/gG	—
Degree of protection		IP 20	IP 20
Range of operating temperatures		- 40 °C ... + 80 °C	- 40 °C ... + 80 °C
Mounting on		lišta DIN 35 mm	lišta DIN 35 mm
Cross-section of connected conductors			
Solid min/max		ISO: 10/50 mm <sup>2</sup> ; AWG: 7/1	ISO: 10/50 mm <sup>2</sup> ; AWG: 7/1
Stranded min/max		ISO: 10/35 mm <sup>2</sup> ; AWG: 7/2	ISO: 10/35 mm <sup>2</sup> ; AWG: 7/2
Stripping length of the supply conductor		11 mm	11 mm
Tightening torque		max. 4 Nm	max. 4 Nm
Visual fault indication		red indication field	no
Remote indication*		potential-free change-over contact	—
Remote indication contacts		250 V / 0,5 A AC, 250 V / 0,1 A DC	—
Cross-section of remote indication conductors		max. 1,5 mm <sup>2</sup>	—
Meets the requirements of standard		EN 61643-11 + A11  	EN 61643-11 + A11  

\* Remote signalling of N-PE module shows the presence of the replaceable module