



Surge protection  
Energy technology  
Arrestor 3

Blitzbarriere

**VF**  
**24**  
AC/DC



OK



Replace

$U_N$  : 24 V  
 $I_L$  : 20 A  
 $I_n (8/20)$  : 700 A  
 $I_{max} (8/20)$  : 2 kA  
 $U_p$  :  $\leq 130$  V  
IP20 CE

Art.-Nr. 5097 60 7

heben

13 03 15



OFF

13:41 18

MENU



## Surge protection Energy technology, type 3 arrester

	<b>Fine power protection, connectable</b>	270
	<b>Fine power protection, fixed installation</b>	278
	<b>Fine power protection, series installation</b>	284

### Type 3, fine power protection FC, connectable



**SchuKo**

Volts	Item no.	Page
230	5092 80 0	270



**SchuKo + TV**

Volts	Item no.	Page
230	5092 80 8	271



**SchuKo + SAT**

Volts	Item no.	Page
230	5092 81 6	272



**SchuKo + TAE**

Volts	Item no.	Page
230	5092 82 4	273



**SchuKo + ISDN**

Volts	Item no.	Page
230	5092 81 2	274



**SchuKo + RJ**

Volts	Item no.	Page
230	5092 82 8	275



**Socket bar**

Volts	Item no.	Page
230	5092 70 1	276



**Cold device connector**

Volts	Item no.	Page
230	5092 60 4	277

### Type 3, fine power protection ÜSM, fixed installation



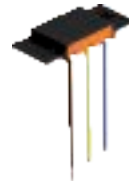
**Direct connection**

Volts	Item no.	Page
150	5092 45 1	278
230	5092 46 6	278



**V connection**

Volts	Item no.	Page
230	5092 46 0	279



**For GB2 and GB3 mounting boxes**

Volts	Item no.	Page
230	5092 47 2	280



**SchuKo**

Volts	Item no.	Page
230	5092 44 1	281

### Type 3, fine power protection ÜSS, Modul 45



**Visual signalling**

Volts	Item no.	Page
230	6117 47 3	282



**Acoustic signalling**

Volts	Item no.	Page
230	6117 46 5	283



## Type 3, fine power protection VF, series installation



### 2-pole

Volts	Item no.	Page
12	5097 45 3	284
24	5097 60 7	285
48	5097 61 5	286
60	5097 62 3	287
110	5097 63 1	288
230	5097 65 0	289

## Type 3, fine power protection VF, series installation with remote signalling



### 2-pole + FS

Volts	Item no.	Page
24	5097 82 0	290
230	5097 85 8	291

## Type 3, fine power protection VF, series installation with leakage current-free signalling



### 2-pole + FS leakage current-free

Volts	Item no.	Page
230	5097 93 9	292

## FineController for protective contact socket



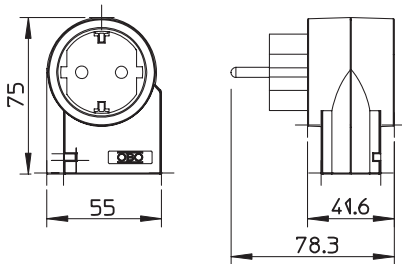
Type	Country version	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
FC-D	EN	Pure white	1	12,000	5092800

/pc.

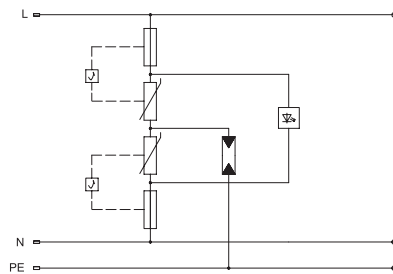
Type 3 surge protection device to EN 61643-11, intended for use in protective contact sockets.

- Adapter
- Disconnection device and function display
- Child lock through increased finger touch protection

### Dimensions



### Connection options



### FC-D

Nominal voltage	$U_N$	230 V
Max. continuous operating voltage	$U_C$	275 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	$I_n$	3 kA
Protection level (L-N)		< 1,2 kV
Protection level (N-PE)		< 1,5 kV
Maximum back-up fuse		16 A
Response time	$t_A$	<25 ns

## FineController for video, TV and hi-fi systems



Type	Country version	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>FC-TV-D</b>	EN	Pure white	1	18,000	<b>5092808</b>

/pc.

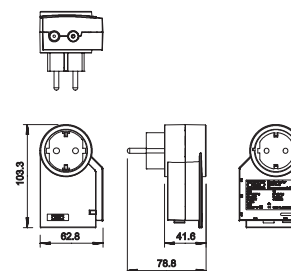
Type 3 combined surge protection to EN 61643-11, designed for use on Schuko sockets and video, TV and hi-fi systems with IEC adapter.

- Adapter
- Disconnection device and function display
- Child lock through increased finger contact protection
- Incl. 0.5 m connection cable in white (double screen)
- Maximum continuous voltage, TV connection 72 V DC / 1.5 A (25 °C)
- Limit frequency: 2.5 GHz (75 Ohm system)

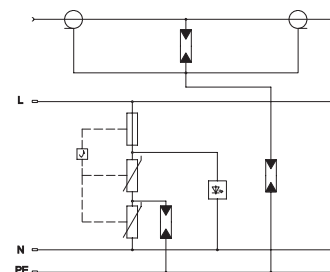
Note: The technical data in the table below refer to the power supply.



Dimensions



Connection options



### FC-TV-D

Nominal voltage	$U_N$	230 V
Max. continuous operating voltage	$U_C$	275 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	$I_n$	3 kA
Protection level (L-N)		< 1,2 kV
Protection level (N-PE)		< 1,5 kV
Maximum back-up fuse		16 A
Response time	$t_A$	<25 ns



## FineController for SAT systems and receivers



Type	Country version	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>FC-SAT-D</b>	EN	Pure white	1	18,000	<b>5092816</b>

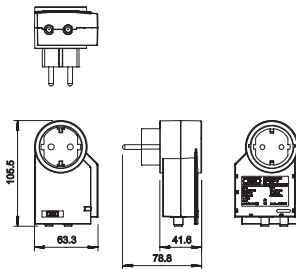
/pc.

Type 3 combined surge protection to EN 61643-11, designed for use on satellite systems and receivers.

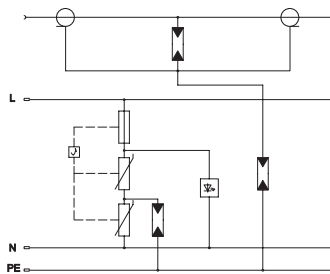
- Adapter
- Disconnection device and function display
- Child lock through increased finger contact protection
- Incl. 0.5 m connection cable in white (double screen)
- Maximum continuous voltage, TV connection 72 V DC / 1.5 A (25 °C)
- Limit frequency: 2.5 GHz (75 Ohm system)

Note: The technical data in the table below refer to the power supply.

### Dimensions



### Connection options



### FC-SAT-D

Nominal voltage	$U_N$	230 V
Max. continuous operating voltage	$U_C$	275 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	$I_n$	3 kA
Protection level (L-N)		< 1,2 kV
Protection level (N-PE)		< 1,5 kV
Maximum back-up fuse		16 A
Response time	$t_A$	<25 ns



## FineController for telephone systems and terminals



Type	Country version	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>FC-TAE-D</b>	EN	Pure white	1	18,000	<b>5092824</b>

/pc.

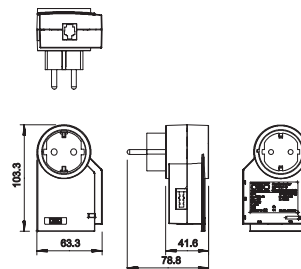
Type 3 combined surge protection to EN 61643-11, designed for use in telephone systems with TAE connection (telephones upstream of the NTBA/DSL splitter).

- Adapter
- Disconnection device and function display
- Child lock through increased finger contact protection
- Incl. 0.5 m connection cable TAE / RJ11
- Maximum continuous voltage, TAE connection 200 V DC / 1.5 A (25 °C)
- Limit frequency: Typ. 4 MHz / DSL-compatible

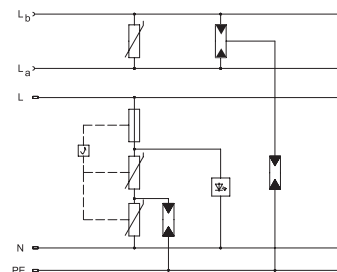
Note: The technical data in the table below refer to the power supply.



### Dimensions



### Connection options



### FC-TAE-D

Nominal voltage	$U_N$	230 V
Max. continuous operating voltage	$U_C$	275 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	$I_n$	3 kA
Protection level (L-N)		< 1,2 kV
Protection level (N-PE)		< 1,5 kV
Maximum back-up fuse		16 A
Response time	$t_A$	<25 ns





## FineController for ISDN telephone systems and terminals



Type	Country version	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>FC-ISDN-D</b>	EN	Pure white	1	18,000	<b>5092812</b>

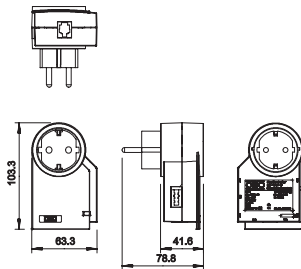
/pc.

Type 3 combined surge protection to EN 61643-11 designed for use in ISDN / DSS 1 telephone systems and terminals.

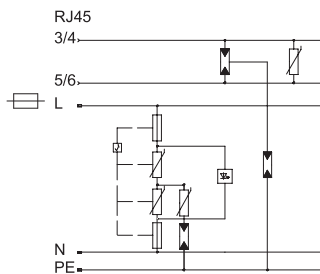
- Adapter
- Disconnection device and function display
- Child lock through increased finger contact protection
- Incl. 0.5 m connection cable RJ12
- Maximum continuous voltage, ISDN connection 6 V DC / 1.5 A (25 °C)
- Limit frequency: Type 300 kHz

Note: The technical data in the table below refer to the power supply.

### Dimensions



### Connection options



### FC-ISDN-D

Nominal voltage	$U_N$	230 V
Max. continuous operating voltage	$U_C$	275 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	$I_n$	3 kA
Protection level (L-N)		< 1,2 kV
Protection level (N-PE)		< 1,5 kV
Maximum back-up fuse		16 A
Response time	$t_A$	<25 ns

## FineController for telephone systems with RJ11



Type	Country version	Colour	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>FC-RJ-D</b>	EN	Pure white	1	18,000	<b>5092828</b>

/pc.

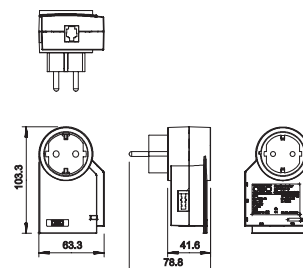
Type 3 combined surge protection to EN 61643-11 designed for use in telephone systems and terminals with RJ12 connection.

- Adapter
- Disconnection device and function display
- Child lock through increased finger contact protection
- Incl. 0.5 m connection cable RJ12
- Maximum continuous voltage, RJ connection 200 V DC / 1.5 A (25 °C)
- Limit frequency: Typ. 4 MHz / DSL-compatible

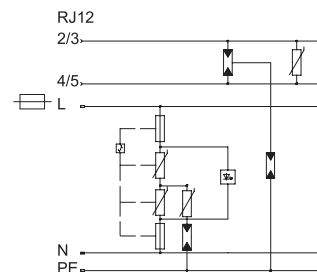
Note: The technical data in the table below refer to the power supply.



### Dimensions



### Connection options



### FC-RJ-D

Nominal voltage	$U_N$	230 V
Max. continuous operating voltage	$U_C$	275 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	$I_n$	3 kA
Protection level (L-N)		< 1,2 kV
Protection level (N-PE)		< 1,5 kV
Maximum back-up fuse		16 A
Response time	$t_A$	<25 ns



Fine power protection / socket bar



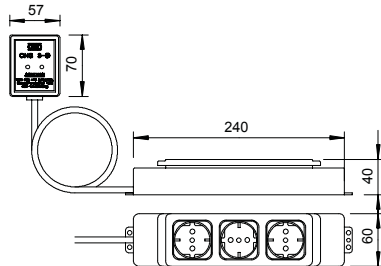
Type	Country version	Colour	Connection cable length m	Pack. pcs	Weight kg/100 pcs.	Item No.
CNS 3-D-D	EN	Black	2	1	65,000	5092701

/pc.

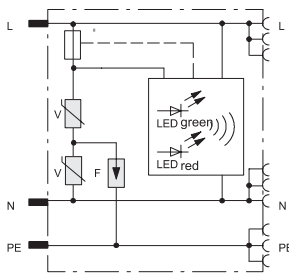
CNS 3-D: Type 3 surge protection device to DIN EN 61643-11, intended for use in protective contact sockets.

- With visual and audible signalling, function display
- 3-way socket
- Length of connection cable: 2 m
- Y circuit for high electrical safety

Dimensions



Connection options



CNS 3-D-D

Nominal voltage	$U_N$	230 V
Max. continuous operating voltage	$U_C$	255 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	$I_n$	2.5 kA
Protection level (L-N)		< 1,0 kV
Protection level (N-PE)		< 1,5 kV
Maximum back-up fuse		16 A
Response time	$t_A$	<25 ns

Fine power protection / adapter with cold device connector



Type	Country version	Colour	Connection cable length m	Pack. pcs	Weight kg/100 pcs.	Item No.
CNS-D-D	EN	Light grey	1.5	1	30,000	5092604

/pc.

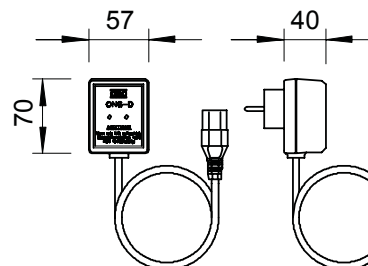
CNS-D: Type 3 surge protection device to EN 61643-11, designed for use in protective contact sockets

- With visual and audible signalling, function display
- With cold unit connector
- Length of connection cable: 1.5 m
- Y circuit for high electrical safety

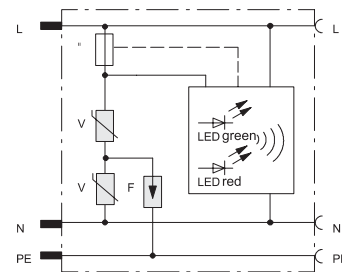
Application: For example, the protection of PCs, printers, copiers, fax machines, etc.



Dimensions



Connection options



CNS-D-D

Nominal voltage	$U_N$	230 V
Max. continuous operating voltage	$U_C$	255 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	$I_n$	2.5 kA
Protection level (L-N)		< 1,0 kV
Protection level (N-PE)		< 1,5 kV
Maximum back-up fuse		16 A
Response time	$t_A$	< 25 ns



## Fine power protection for all installation systems



Type	Signalling on device	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>ÜSM-A</b>	Audible	Acoustic function display	1	1,500	<b>5092451</b>
<b>ÜSM-A-150</b>	Audible	Acoustic function display	1	1,500	<b>5092466</b>

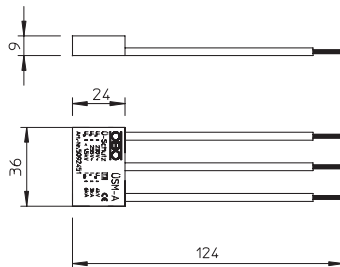
/pc.

Surge protection module type 3 to DIN EN 61643-11 for 230 V power grids.

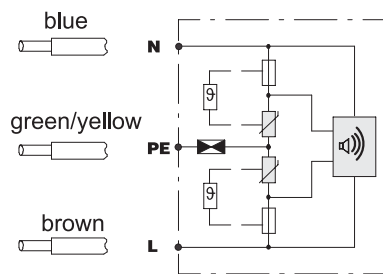
- With acoustic defect signal
- With low construction height
- Y circuit

Application: Universally applicable for all installation systems.

### Dimensions



### Connection options



### ÜSM-A

Nominal voltage	$U_N$	230 V
Max. continuous operating voltage	$U_C$	255 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	$I_n$	3 kA
Protection level (L-N)		< 1,3 kV
Protection level (N-PE)		< 1,5 kV
Maximum back-up fuse		16 A
Response time	$t_A$	< 25 ns
Temperature range	$\vartheta$	-15 - +60 °C
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	6 kA
Rated current	$I_L$	16 A

### ÜSM-A-150

Nominal voltage	$U_N$	150 V
Max. continuous operating voltage	$U_C$	170 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	$I_n$	3 kA
Protection level (L-N)		< 1,3 kV
Protection level (N-PE)		< 1,5 kV
Maximum back-up fuse		16 A
Response time	$t_A$	< 25 ns
Temperature range	$\vartheta$	-15 - +60 °C
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	6 kA
Rated current	$I_L$	16 A

Fine power protection for through wiring



Type	Signalling on device	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>ÜSM-A-2</b>	Audible	V connection	1	2,200	<b>5092460</b>

/pc.

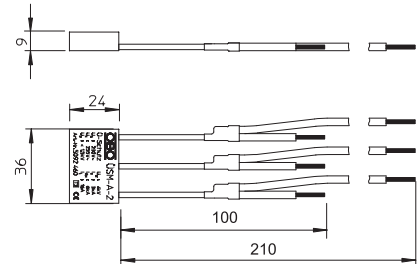
Surge protection device type 3 to DIN EN 61643-11 for 230 V networks.

- With acoustic defect signal
- With 2 strands for continuous wiring
- With low construction height
- Y circuit

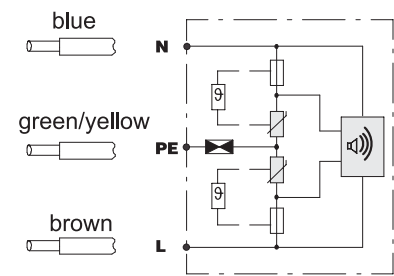
Application: Universally applicable for all installation systems.



Dimensions



Connection options



ÜSM-A-2

Nominal voltage	$U_N$	230 V
Max. continuous operating voltage	$U_C$	255 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2-3
Nominal discharge current (8/20)	$I_n$	3 kA
Protection level (L-N)		< 1,3 kV
Protection level (N-PE)		< 1,5 kV
Maximum back-up fuse		16 A
Response time	$t_A$	< 25 ns
Temperature range	$\vartheta$	-15 - +60 °C
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	6 kA
Rated current	$I_L$	16 A

Fine power protection, fixed installation

## Fine power protection with holder for GB2 and GB3 mounting boxes



Type	Signalling on device	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>ÜSM-A-4</b>	Audible	Incl. holder with partition function	1	2,000	<b>5092472</b>

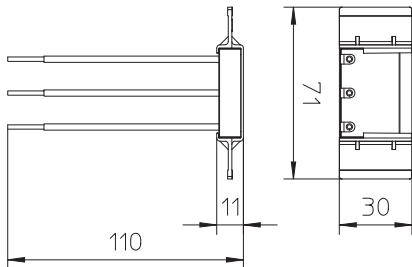
/pc.

Surge protection module type 3 to DIN EN 61643-11 for 230 V power grids.

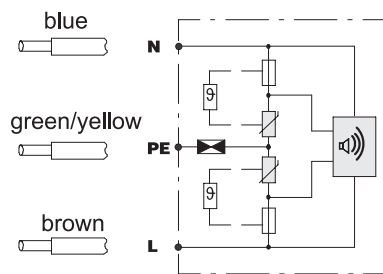
- With acoustic defect signal
- With low construction height and Y circuit
- Holder (separating retainer function) for installation in GB2 and GB3 mounting boxes

Application: Universally applicable for all installation systems.

### Dimensions



### Connection options



### ÜSM-A-4

Nominal voltage	$U_N$	230 V
Max. continuous operating voltage	$U_C$	255 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2-3
Nominal discharge current (8/20)	$I_n$	3 kA
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	6 kA
Protection level (L-N)		< 1,3 kV
Protection level (N-PE)		< 1,5 kV
Maximum back-up fuse		16 A
Response time	$t_A$	< 25 ns
Temperature range	$\vartheta$	-15 - +60 °C



Fine power protection, protective contact sockets



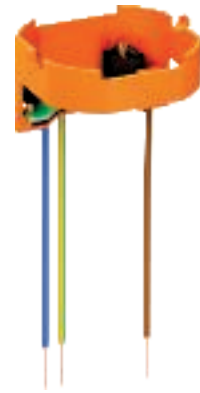
Type	Signalling on device	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>ÜSM-ST-230-1P+PE</b>	Audible	Acoustic function display	1	1,770	<b>5092441</b>

/pc.

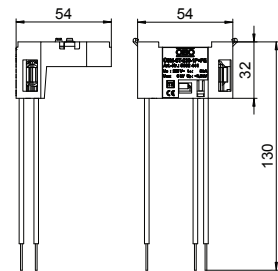
Surge protection / fine power protection, type 3, to EN 61643-11 for protective contact sockets.

- Thermal cut-off unit with acoustic defect signalling
- Y protection circuit for increased safety
- Mounting through snapping onto the support ring of the socket
- Labelling of the socket with supplied sign

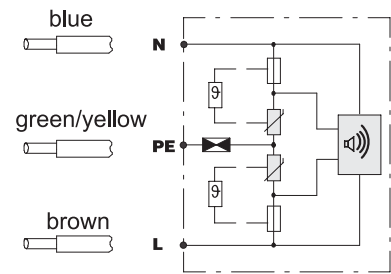
Application: For retrofitting on standard Schuko sockets.



Dimensions



Connection options



ÜSM-ST-230-1P+PE

Nominal voltage	$U_N$	230 V
Max. continuous operating voltage	$U_C$	255 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2-3
Nominal discharge current (8/20)	$I_n$	3 kA
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	5 kA
Protection level (L-N)		< 1,5 kV
Protection level (N-PE)		< 1,5 kV
Maximum back-up fuse		16 A
Response time	$t_A$	25 ns
Temperature range	$\vartheta$	-5 - +40 °C

## Fine power protection / dado duct installation Modul 45



Type	Signalling on device	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
ÜSS 45-O-RW	Visual	Optical function display	1	2,411	6117473

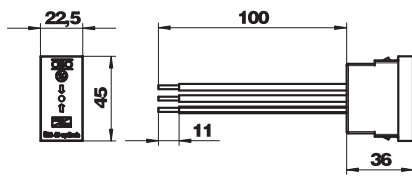
/pc.

Surge protection / network fine protection, type 3, according to EN 61643-11 for installation in Rapid 45 ducts, device installation ducts and underfloor systems.

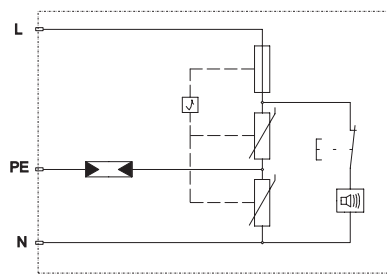
- Version-O with acoustic function display
- Quick and easy mounting
- Low construction width of 22.5 mm

Application: The surge protection device secures downstream and nearby sockets.

### Dimensions



### Connection options



### ÜSS 45-O-RW

Nominal voltage	$U_N$	230 V
Max. continuous operating voltage	$U_C$	255 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	$I_n$	2.5 kA
Protection level (L-N)		< 1,5 kV
Protection level (N-PE)		< 1,5 kV
Maximum back-up fuse		16 A
Response time	$t_A$	25 ns
Temperature range	$\vartheta$	-25 - +45 °C

## Fine power protection / dado duct installation Modul 45



Type	Signalling on device	Version	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>ÜSS 45-A-RW</b>	Audible	Acoustic function display	1	2,800	<b>6117465</b>

/pc.

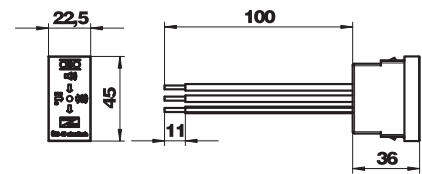
Surge protection / network fine protection, type 3, according to EN 61643-11 for installation in Rapid 45 ducts, device installation ducts and underfloor systems.

- Version-A with acoustic function display (switchable signal tone)
- Quick and easy mounting
- Low construction width of 22.5 mm

Application: The surge protection device secures downstream and nearby sockets.



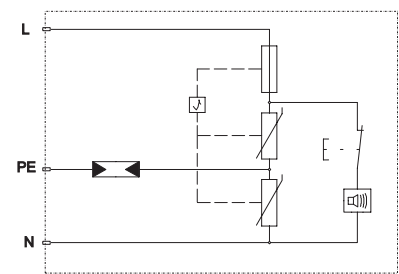
Dimensions



### ÜSS 45-A-RW

Nominal voltage	$U_N$	230 V
Max. continuous operating voltage	$U_C$	255 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	$I_n$	2.5 kA
Protection level (L-N)		< 1,5 kV
Protection level (N-PE)		< 1,5 kV
Maximum back-up fuse		16 A
Response time	$t_A$	25 ns
Temperature range	$\vartheta$	-25 - +45 °C

Connection options



## Protection for 2-pole for power supply, 12 V



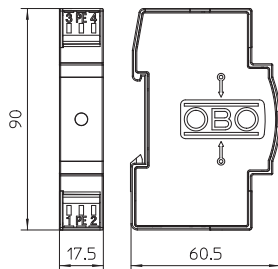
<b>Type</b>	Highest continuous voltage	Pack. pcs	Weight kg/100 pcs.	<b>Item No.</b>
	V			
<b>VF12-AC DC</b>	13.5	1	9,000	<b>5097453</b>

/pc.

Surge protection device / fine protection type 3 to EN 61643-11

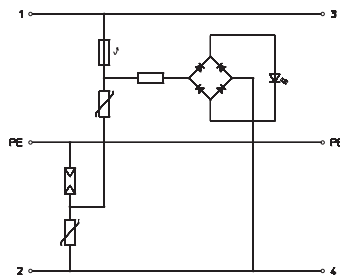
- Suitable for DC and AC voltage systems
- With visual function display
- With installation-friendly, screwless connection terminals
- In a space-saving 17.5 mm grid
- Y circuit

### Dimensions



Application: Universal use on 35 mm DIN profile rail in every normal commercially available distributor housing.

### Connection options



### VF12-AC DC

U max AC	U <sub>c</sub> AC	13.5 V
U max DC	U <sub>c</sub> DC	18 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2-3
Nominal discharge current (8/20)	I <sub>n</sub>	0,7 kA
Rated current	I <sub>L</sub>	20 A
Protection level wire-wire		<110 V
Protection level wire-earth		<1200 V
Response time	t <sub>A</sub>	<25 ns
Temperature range	θ	-40 - +80 °C
Protection rating		IP 20
Division unit TE (17.5 mm)		1
Connection cross-section rigid		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, multi-wire		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, flexible		0.14 - 2.5 mm <sup>2</sup>

Protection for 2-pole for power supply, 24 V



Highest continuous voltage V

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VF24-AC/DC   34	1	8,000	5097607

/pc.

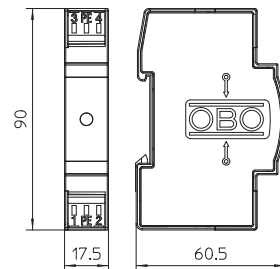
Surge protection device / fine protection type 3 to EN 61643-11

- Suitable for DC and AC voltage systems
- With visual function display
- With installation-friendly, screwless connection terminals
- In a space-saving 17.5 mm grid
- Y circuit

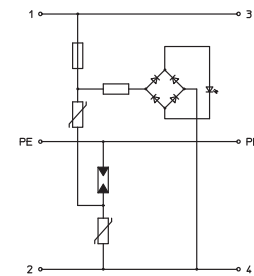
Application: Universal use on 35 mm DIN profile rail in every normal commercially available distributing housing.



Dimensions



Connection options



VF24-AC/DC

U max AC	U <sub>c</sub> AC	34 V
U max DC	U <sub>c</sub> DC	46 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	I <sub>n</sub>	0,7 kA
Rated current	I <sub>L</sub>	20 A
Protection level wire-wire		<130 V
Protection level wire-earth		<1200 V
Response time	t <sub>A</sub>	<25 ns
Temperature range	θ	-40 - +80 °C
Protection rating		IP 20
Division unit TE (17.5 mm)		1
Connection cross-section rigid		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, multi-wire		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, flexible		0.14 - 2.5 mm <sup>2</sup>

## Protection for 2-pole for power supply, 48 V



Highest continuous voltage V

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VF48-AC/DC   60	1	8,000	5097615

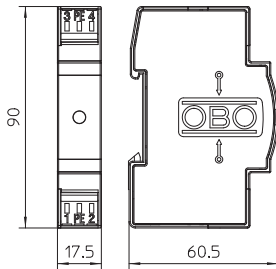
/pc.

Surge protection device / fine protection type 3 to EN 61643-11

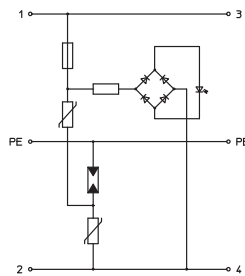
- Suitable for DC and AC voltage systems
- With visual function display
- With installation-friendly, screwless connection terminals
- In a space-saving 17.5 mm grid
- Y circuit

Application: Universal use on 35 mm DIN profile rail in every normal commercially available distributor housing.

### Dimensions



### Connection options



### VF48-AC/DC

U max AC	U <sub>c</sub> AC	60 V
U max DC	U <sub>c</sub> DC	80 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	I <sub>n</sub>	0,7 kA
Rated current	I <sub>L</sub>	20 A
Protection level wire-wire		<220 V
Protection level wire-earth		<1200 V
Response time	t <sub>A</sub>	<25 ns
Temperature range	θ	-40 - +80 °C
Protection rating		IP 20
Division unit TE (17.5 mm)		1
Connection cross-section rigid		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, multi-wire		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, flexible		0.14 - 2.5 mm <sup>2</sup>

Protection for 2-pole for power supply, 60 V



Highest continuous voltage V

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VF60-AC/DC   80	1	8,000	5097623

/pc.

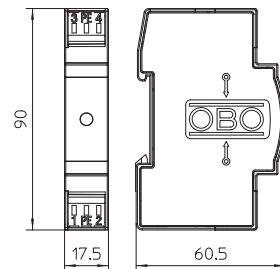


Surge protection device / fine protection type 3 to EN 61643-11

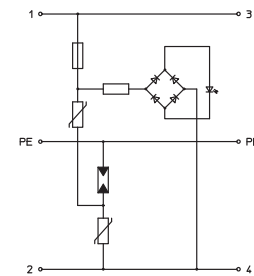
- Suitable for DC and AC voltage systems
- With visual function display
- With installation-friendly, screwless connection terminals
- In a space-saving 17.5 mm grid
- Y circuit

Application: Universal use on 35 mm DIN profile rail in every normal commercially available distributing housing.

Dimensions



Connection options



VF60-AC/DC

U max AC	U <sub>c</sub> AC	80 V
U max DC	U <sub>c</sub> DC	110 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	I <sub>n</sub>	0,7 kA
Rated current	I <sub>L</sub>	20 A
Protection level wire-wire		<280 V
Protection level wire-earth		<1200 V
Response time	t <sub>A</sub>	<25 ns
Temperature range	θ	-40 - +80 °C
Protection rating		IP 20
Division unit TE (17.5 mm)		1
Connection cross-section rigid		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, multi-wire		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, flexible		0.14 - 2.5 mm <sup>2</sup>





## Protection for 2-pole for power supply, 110 V



Highest continuous voltage V

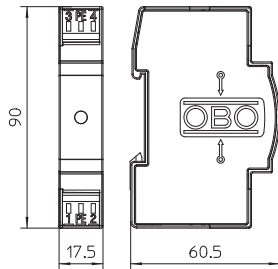
Type	Highest continuous voltage V	Pack. pcs	Weight kg/100 pcs.	Item No.
VF110-AC DC	150	1	8,000	5097631

/pc.

Surge protection device / fine protection type 3 to EN 61643-11

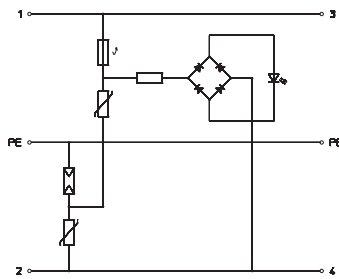
- Suitable for DC and AC voltage systems
- With visual function display
- With installation-friendly, screwless connection terminals
- In a space-saving 17.5 mm grid
- Y circuit

### Dimensions



Application: Universal use on 35 mm DIN profile rail in every normal commercially available distributor housing.

### Connection options



### VF110-AC DC

U max AC	U <sub>c</sub> AC	150 V
U max DC	U <sub>c</sub> DC	200 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	I <sub>n</sub>	2 kA
Rated current	I <sub>L</sub>	20 A
Protection level wire-wire		<500 V
Protection level wire-earth		<1400 V
Response time	t <sub>A</sub>	<25 ns
Temperature range	θ	-40 - +80 °C
Protection rating		IP 20
Division unit TE (17.5 mm)		1
Connection cross-section rigid		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, multi-wire		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, flexible		0.14 - 2.5 mm <sup>2</sup>

Protection for 2-pole for power supply, 230 V



Highest continuous voltage V

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
VF230-AC/DC   255	1	8,000	5097650

/pc.

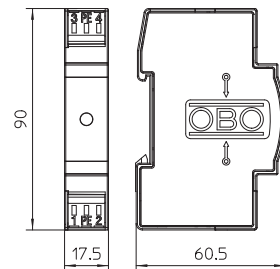
Surge protection device / fine protection type 3 to EN 61643-11

- Suitable for DC and AC voltage systems
- With visual function display
- With installation-friendly, screwless connection terminals
- In a space-saving 17.5 mm grid
- Y circuit

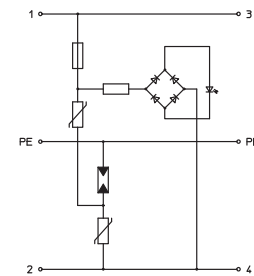
Application: Universal use on 35 mm DIN profile rail in every normal commercially available distributing housing.



Dimensions



Connection options



VF230-AC/DC

U max AC	U <sub>c</sub> AC	255 V
U max DC	U <sub>c</sub> DC	350 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	I <sub>n</sub>	2.5 kA
Rated current	I <sub>L</sub>	20 A
Protection level wire-wire		<1000 V
Protection level wire-earth		<1400 V
Response time	t <sub>A</sub>	<25 ns
Temperature range	θ	-40 - +80 °C
Protection rating		IP 20
Division unit TE (17.5 mm)		1
Connection cross-section rigid		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, multi-wire		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, flexible		0.14 - 2.5 mm <sup>2</sup>



## Protection for 2-pole power supply with remote signalling, 24 V AC/DC



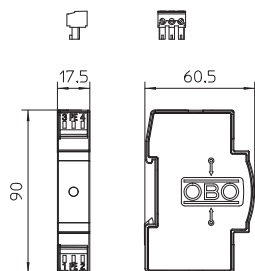
<b>Type</b>	Highest continuous voltage	Pack. pcs	Weight kg/100 pcs.	<b>Item No.</b>
	V			
<b>VF24-AC/DC-FS</b>	34	1	6,620	<b>5097820</b>

/pc.

Surge protection / fine power protection, type 3, to EN 61643-11 with remote signalling

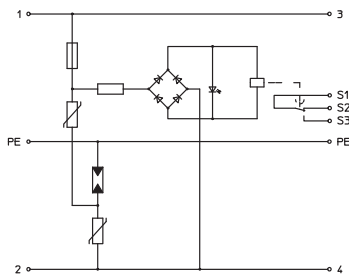
- With remote signalling, potential-free changeover contact, for function monitoring
- Suitable for DC and AC systems
- With visual function display
- With easy mounting, screwless connection terminals
- In space-saving 17.5 mm grid
- Y circuit

### Dimensions



Application: Universal use on 35 mm DIN profile rails in any standard distributor housing.

### Connection options



### VF24-AC/DC-FS

U max AC	U <sub>c</sub> AC	34 V
U max DC	U <sub>c</sub> DC	46 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2-3
Nominal discharge current (8/20)	I <sub>n</sub>	0,7 kA
Rated current	I <sub>L</sub>	20 A
Protection level wire-wire		<160 V
Protection level wire-earth		<1200 V
Response time	t <sub>A</sub>	<25 ns
Temperature range	θ	-40 - +80 °C
Protection rating		IP 20
Division unit TE (17.5 mm)		1
Connection cross-section rigid		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, multi-wire		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, flexible		0.14 - 2.5 mm <sup>2</sup>

## Protection for 2-pole power supply with remote signalling, 230 V AC



Highest continuous voltage V

Type	Pack. pcs	Weight kg/100 pcs.	Item No.
<b>VF230-AC-FS</b>   255	1	6,910	<b>5097858</b>

/pc.

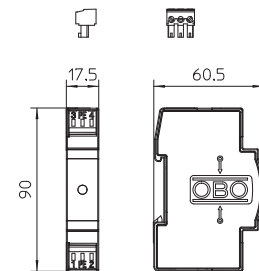
Surge protection / fine power protection, type 3, to EN 61643-11 with remote signalling

- With remote signalling, potential-free changeover contact, for function monitoring
- Suitable for AC systems
- With visual function display
- With easy mounting, screwless connection terminals
- In space-saving 17.5 mm grid
- Y circuit

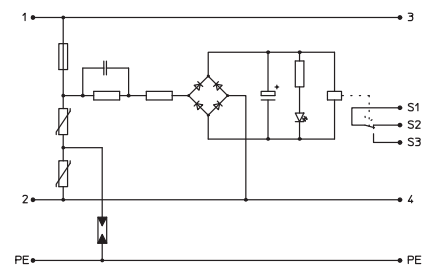
Application: Universal use on 35 mm DIN profile rails in any standard distributor housing.



### Dimensions



### Connection options



### VF230-AC-FS

U max AC	U <sub>c</sub> AC	255 V
U max DC	U <sub>c</sub> DC	— V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2→3
Nominal discharge current (8/20)	I <sub>n</sub>	2,5 kA
Rated current	I <sub>L</sub>	20 A
Protection level wire-wire		<1060 V
Protection level wire-earth		<1400 V
Response time	t <sub>A</sub>	< 25 ns
Temperature range	θ	-40 - +80 °C
Protection rating		IP 20
Division unit TE (17.5 mm)		1
Connection cross-section rigid		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, multi-wire		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, flexible		0.14 - 2.5 mm <sup>2</sup>

## MCR protection for 2-pin for power supply with leak current-free remote signalling, 230 V AC/DC



Type	U max	U max	Pack.	Weight	Item No.
	AC	DC			
<b>VF2-230-AC/DC-FS</b>	255	350	1	6,000	<b>5097939</b>

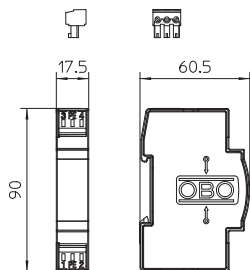
/pc.

Type 3 surge protection/fine network protection to EN 61643-11 with leak current-free remote signalling

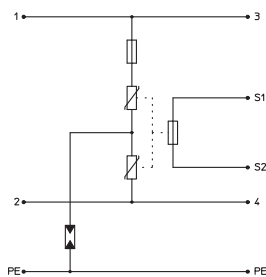
- With remote signalling: potential-free NC contact for function monitoring
- With installation-friendly, screwless connection terminals
- In space-saving 17.5 mm grid
- Y circuit

Application: Universal use on 35 mm DIN profile rails in any standard distributor housing.

### Dimensions



### Connection options



### VF2-230-AC/DC-FS

U max AC	U <sub>c</sub> AC	255 V
U max DC	U <sub>c</sub> DC	350 V
SPD to EN 61643-11		Type 3
SPD to IEC 61643-11		Class III
Lightning protection zone LPZ		2-3
Nominal discharge current (8/20)	I <sub>n</sub>	2,5 kA
Rated current	I <sub>L</sub>	20 A
Protection level wire-wire		< 1000 V
Protection level wire-earth		< 1400 V
Response time	t <sub>A</sub>	<25 ns
Temperature range	ϑ	-40 - +80 °C
Protection rating		IP 20
Division unit TE (17.5 mm)		1
Connection cross-section rigid		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, multi-wire		0.14 - 2.5 mm <sup>2</sup>
Connection cross-section, flexible		0.14 - 2.5 mm <sup>2</sup>