

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



Surge protective device, three channel with remote indicator contact for 347/600V and 400/690 V AC, 4-wire.

### Your advantages

- With floating remote indication contact
- ☑ Plugs can be checked with CHECKMASTER
- Mechanical coding of all slots
- Multi-channel type 2 arresters
- Optical, mechanical status indication for the individual arresters
- ☑ Disconnect device on each individual plug
- Multi-channel type 2 arresters



## **Key Commercial Data**

Packing unit	1 pc
GTIN	4 055626 445212
GTIN	4055626445212
Weight per Piece (excluding packing)	380.000 g
Custom tariff number	85363030
Country of origin	Germany

### Technical data

### **Dimensions**

ſ	Height	98.7 mm
ſ	Width	53.4 mm



## Technical data

### **Dimensions**

Depth	65.5 mm
Horizontal pitch	3 Div.

### Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C 80 °C
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 500 Hz / 2.5 h / X, Y, Z)

### General

IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN-C
Mode of protection	L-PEN
Mounting type	DIN rail: 35 mm
Color	jet black RAL 9005
Housing material	PA 6.6
	PBT
Degree of pollution	2
Distance between live and grounded parts	5 mm
Flammability rating according to UL 94	V-0
Туре	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	Optical, remote indicator contact

### Protective circuit

Nominal voltage U <sub>N</sub>	400/690 V AC (TN-C)
	347/600 V AC (TN-C)
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous voltage U <sub>C</sub>	580 V AC
Standby power consumption P <sub>C</sub>	≤ 150 mVA
Nominal discharge current I <sub>n</sub> (8/20) µs	15 kA
Maximum discharge current I <sub>max</sub> (8/20) μs	30 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA



## Technical data

### Protective circuit

Voltage protection level U <sub>p</sub>	≤ 2.5 kV
Residual voltage U <sub>res</sub>	$\leq$ 2.5 kV (at I <sub>n</sub> )
	≤ 2.3 kV (at 10 kA)
	≤ 2.1 kV (at 5 kA)
	≤ 1.9 kV (at 3 kA)
TOV behavior at U <sub>T</sub>	690 V AC (5 s / withstand mode)
	762 V AC (120 min / withstand mode)
Max. backup fuse with branch wiring	125 A (gG)

## Indicator/remote signaling

Switching function	PDT contact
Operating voltage	5 V AC 250 V AC
	30 V DC
Operating current	5 mA AC 1.5 A AC
	1 A DC
Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section solid	0.14 mm² 1.5 mm²
Conductor cross section AWG	28 16

### Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm (1.5 mm² 16 mm²)
	4.5 Nm (25 mm² 35 mm²)
Stripping length	16 mm
Conductor cross section flexible	1.5 mm² 25 mm²
Conductor cross section solid	1.5 mm² 35 mm²
Conductor cross section AWG	15 2
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm² 16 mm²

## UL specifications

SPD Type	1
Maximum continuous operating voltage MCOV (L-L)	750 V AC
Maximum continuous operating voltage MCOV (L-G)	580 V AC



## Technical data

### **UL** specifications

Nom. voltage	347/600 V AC (3-phase Wye)	
	400/690 V AC (3-phase Wye)	
Mode of protection	L-L	
	L-G	
Power distribution system	Wye	
Nominal frequency	50/60 Hz	
Voltage protection rating VPR (L-L)	4000 V	
Voltage protection rating VPR (L-G)	2000 V	
Nominal discharge current I <sub>n</sub>	20 kA	
Maximum Surge Current per Phase	30 kA	
Short-circuit current rating (SCCR)	200 kA	

## UL indicator/remote signaling

Operating voltage	125 V AC
Operating current	1 A AC
Tightening torque	2 lb <sub>r</sub> in 4 lb <sub>r</sub> in.
Conductor cross section AWG	30 14

### UL connection data

Conductor cross section AWG	10 2
Tightening torque	30 lb <sub>r</sub> -in.

## Standards and Regulations

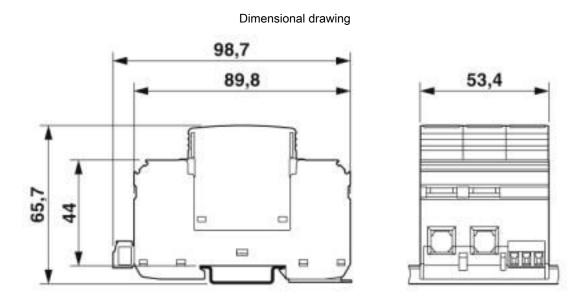
Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

## **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1
------------	----------------

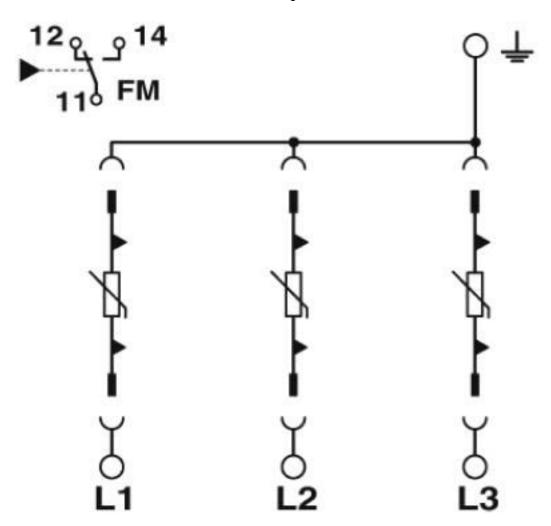
## Drawings











## Classifications

## eCl@ss

eCl@ss 10.0.1	27130805
eCl@ss 6.0	27130800
eCl@ss 7.0	27130805
eCl@ss 8.0	27130805
eCl@ss 9.0	27130805

## **ETIM**

ETIM 5.0	EC000941
ETIM 6.0	EC000941



## Classifications

ETIM 7.0		EC000941	
Approvals			
Approvals			
pprovals			
IL Listed / cUL Listed / cULus	Listed		
x Approvals			
Approval details			
UL Listed	UL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
cUL Listed	C UL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181

### Accessories

cULus Listed

Accessories

Bridge

Wiring bridge - MPB F600X16/ 1GS - 2818355



Wiring bridge flexible, diameter: 16 mm², with a fork-type cable lug on one side, length: 600 mm



### Accessories

Wiring bridge - MPB F600X16/ 1GS - 2818355



Wiring bridge flexible, diameter: 16 mm², with a fork-type cable lug on one side, length: 600 mm

Wiring bridge - MPB F200X16/ 1GS - 2818339



Wiring bridge flexible, diameter 16 mm², with a fork-type cable lug on one side, length: 200 mm

Wiring bridge - MPB 18/1-10/1.0.0 - 2830443



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 10 pitches with contact sequence 1-0-0

Wiring bridge - MPB 18/4-12 - 2809296



Wiring bridge for modules with connecting pitch 17.5 mm, 4-phase, 12-pos.

Wiring bridge - MPB 18/4- 8 - 2809283



Wiring bridge for modules with connecting pitch 17.5 mm, 4-phase, 8-pos.



### Accessories

Wiring bridge - MPB 18/3- 6 - 2809241



Wiring bridge for modules with connecting pitch 17.5 mm, 3-phase, 6-pos.

Wiring bridge - MPB 18/1-57 - 2809238



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 57-pos.

Wiring bridge - MPB 18/1-12 - 2748593



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 12-pos.

Wiring bridge - MPB 18/1- 9 - 2748580



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 9-pos.

Wiring bridge - MPB 18/1- 8 - 2748577



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos.



### Accessories

Wiring bridge - MPB 18/1- 6 - 2748564



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 6-pos.

Wiring bridge - MPB 18/1- 4 - 2809225



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 4-pos.

Wiring bridge - MPB 18/1- 3 - 2809212



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 3-pos.

Wiring bridge - MPB 18/1- 2 - 2809209



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 2-pos.

#### Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5



### Accessories

Feed-through terminal block

Feed-through terminal block - DK-BIC-35 - 2749880



Feed-through terminal block for VAL and FLT applications

#### Labeled device marker

Marker for terminal blocks - ZBN 18,LGS:ERDE - 2749589



Marker for terminal blocks, Strip, white, labeled, horizontal: Grounding symbol, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

Marker for terminal blocks - ZBN 18,LGS:L1-N,ERDE - 2749576



Marker for terminal blocks, Strip, white, labeled, horizontal: L1, L2, L3, N, GND, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

### Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Spare parts



## Accessories

Type 1 surge protection plug - VAL-US-347/30-P - 2910339



UL Recognized type 1 SPD and IEC type 2 surge protection plug with a varistor and thermal disconnect for use with VAL-US base elements, mechanical and visual fault warning

Phoenix Contact 2020 © - all rights reserved http://www.phoenixcontact.com