

2910358

https://www.phoenixcontact.com/us/products/2910358

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Surge protective device, three channel with remote indicator contact for 120/240 V split phase AC, 3-wire plus ground.

# Your advantages

- · With floating remote indication contact
- · UL open terminal listed SPD
- · Thermal disconnect device for each individual plug
- · Mechanical coding of all slots
- · Optical, mechanical status indication for the individual arresters
- Pluggable



2910358

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# Commercial Data

Item number	2910358
Packing unit	1 pc
Sales Key	C06
Product Key	CL115U
Catalog Page	Page 94 (C-4-2019)
GTIN	4055626444987
Weight per Piece (including packing)	429.4 g
Weight per Piece (excluding packing)	283 g
Customs tariff number	85363030
Country of origin	DE



2910358

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# **Technical Data**

# Product properties

IEC test classification	1/11
	T1 / T2
EN type	T1 / T2
IEC power supply system	TN-S
	TT
Туре	DIN rail module, two-section, divisible
Product type	Surge arrester
Number of positions	3
Surge protection fault message	Optical, remote indicator contact
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

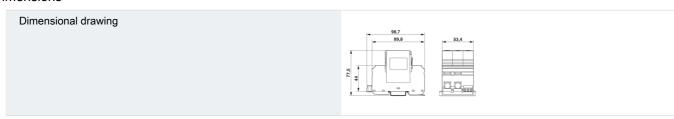
### Electrical properties

Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Indicator/remote signaling	
Connection name	Remote fault indicator contact
Switching function	Changeover 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 data

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm (1.5 mm <sup>2</sup> 16 mm <sup>2</sup> )
	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

### **Dimensions**





2910358

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Width	53.4 mm
Width	53.4 mm
Height	98.7 mm
Height	98.7 mm
Depth	77.5 mm (incl. DIN rail 7.5 mm)
Depth	77.5 mm
Horizontal pitch	3 Div.

## Material specifications

Color	jet black RAL 9005
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6/PBT
Material group	I
Housing material	PA 6.6
	PBT

## Protective circuit

Mode of protection	L-N
	L-PE
	N-PE
Direction of action	2L-N & N-GND
Nominal voltage U <sub>N</sub>	120/240 V AC (TN-S)
	120/240 V AC (TT)
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$ (L-N)	175 V AC
Maximum continuous operating voltage $U_C$ (N-PE)	264 V AC
Rated load current I <sub>L</sub>	80 A
Residual current I <sub>PE</sub>	≤ 5 µA
Nominal discharge current I <sub>n</sub> (8/20) µs (L-N)	12.5 kA
Nominal discharge current I <sub>n</sub> (8/20) µs (L-PE)	12.5 kA
Nominal discharge current I <sub>n</sub> (8/20) µs (N-PE)	50 kA
Total discharge current l <sub>total</sub> (10/350) μs	37.5 kA
Follow current interrupt rating I <sub>fi</sub> (N-PE)	100 A (264 V AC)
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Voltage protection level U <sub>p</sub> (L-N)	≤ 0.8 kV
Voltage protection level U <sub>p</sub> (L-PE)	≤ 2 kV
Voltage protection level U <sub>p</sub> (N-PE)	≤ 1.7 kV
Residual voltage U <sub>res</sub> (L-N)	≤ 0.8 kV (at I <sub>n</sub> )
	≤ 0.75 kV (at 10 kA)
	≤ 0.65 kV (at 5 kA)
	≤ 0.6 kV (at 3 kA)
Residual voltage U <sub>res</sub> (L-PE)	≤ 2 kV (at I <sub>n</sub> )
	≤ 1.5 kV (at 10 kA)



2910358

https://www.phoenixcontact.com/us/products/2910358

	≤ 1.4 kV (at 5 kA)
	≤ 1.3 kV (at 3 kA)
Residual voltage U <sub>res</sub> (N-PE)	≤ 0.6 kV (at I <sub>n</sub> )
	≤ 0.5 kV (at 10 kA)
	≤ 0.5 kV (at 5 kA)
	≤ 0.4 kV (at 3 kA)
TOV behavior at U <sub>T</sub> (L-N)	208 V AC (5 s / withstand mode)
	240 V AC (120 min / safe failure mode)
TOV behavior at U <sub>T</sub> (N-PE)	1200 V AC (200 ms / withstand mode)
Response time t <sub>A</sub> (L-N)	≤ 25 ns
Response time t <sub>A</sub> (L-PE)	≤ 100 ns
Response time t <sub>A</sub> (N-PE)	≤ 100 ns
Max. backup fuse with V-type through wiring	80 A (gG)
Max. backup fuse with branch wiring	160 A (gG)

## Environmental and real-life conditions

#### 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)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	7.5g (10 500 Hz / 2.5 h / X, Y, Z)

# Approval data

#### **UL** specifications

Maximum continuous operating voltage MCOV (L-L)	350 V AC
Maximum continuous operating voltage MCOV (L-N)	175 V AC
Maximum continuous operating voltage MCOV (L-G)	175 V AC
Maximum continuous operating voltage MCOV (N-G)	264 V AC
Short-circuit current rating (SCCR)	200 kA
Voltage protection rating VPR (L-L)	1200 V
Voltage protection rating VPR (L-N)	700 V
Voltage protection rating VPR (L-G)	1500 V
Voltage protection rating VPR (N-G)	1200 V
UL type	type 1
Maximum Surge Current per Phase	65 kA
Mode of protection	L-L
	L-N
	L-G
	N-G
Nominal voltage	120/240 V AC (Split phase)



2910358

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Power distribution system	Split phase
Nominal frequency	50/60 Hz
SPD Type	1
AC operating voltage	125 V AC
AC operating current	1 A AC
UL connection data	
Tightening torque	30 lb <sub>f</sub> -in.
Conductor cross section AWG	14 2

## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	EN 60664-1 / EN 61643-11
Standards/specifications	IEC 61643-11
Standards/specifications	EN 61643-11

## Mounting

Mounting type	DIN rail: 35 mm	

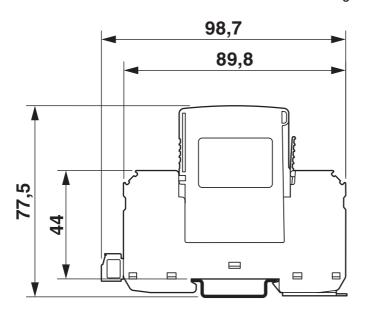


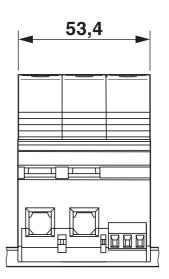
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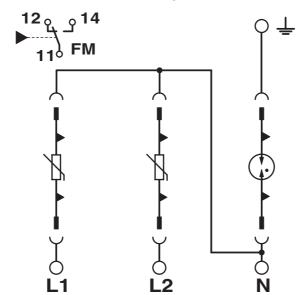
# Drawings

## Dimensional drawing





Circuit diagram





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# Approvals



**UL Listed** 

Approval ID: FILE E 330181



cUL Listed

Approval ID: FILE E 330181

**cULus Listed** 



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# Classifications

### **ECLASS**

	ECLASS-9.0	27130805	
	ECLASS-10.0.1	27130805	
	ECLASS-11.0	27130805	
ETIM			
	ETIM 8.0	EC000941	

## **UNSPSC**



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#### Accessories

### Wiring bridge

Wiring bridge - MPB F600X16/ 1GS - 2818355 https://www.phoenixcontact.com/us/products/2818355



Wiring bridge flexible, diameter: 16 mm<sup>2</sup>, with a fork-type cable lug on one side, length: 600 mm

## Wiring bridge

Wiring bridge - MPB F200X16/ 1GS - 2818339 https://www.phoenixcontact.com/us/products/2818339



Wiring bridge flexible, diameter 16  $\mathrm{mm}^2,$  with a fork-type cable lug on one side, length: 200  $\mathrm{mm}$ 



2910358

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### Wiring bridge

Wiring bridge - MPB 18/1-10/1.0.0 - 2830443 https://www.phoenixcontact.com/us/products/2830443



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

### Wiring bridge

Wiring bridge - MPB 18/4-12 - 2809296 https://www.phoenixcontact.com/us/products/2809296



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



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### Wiring bridge

Wiring bridge - MPB 18/4- 8 - 2809283 https://www.phoenixcontact.com/us/products/2809283



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

### Wiring bridge

Wiring bridge - MPB 18/3- 6 - 2809241 https://www.phoenixcontact.com/us/products/2809241

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





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### Wiring bridge

Wiring bridge - MPB 18/1-57 - 2809238 https://www.phoenixcontact.com/us/products/2809238



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

### Wiring bridge

Wiring bridge - MPB 18/1-12 - 2748593

https://www.phoenixcontact.com/us/products/2748593



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



2910358

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### Wiring bridge

Wiring bridge - MPB 18/1- 9 - 2748580 https://www.phoenixcontact.com/us/products/2748580



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

### Wiring bridge

Wiring bridge - MPB 18/1- 8 - 2748577

https://www.phoenixcontact.com/us/products/2748577



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



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### Wiring bridge

Wiring bridge - MPB 18/1- 6 - 2748564 https://www.phoenixcontact.com/us/products/2748564



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

### Wiring bridge

Wiring bridge - MPB 18/1- 4 - 2809225

https://www.phoenixcontact.com/us/products/2809225



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



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### Wiring bridge

Wiring bridge - MPB 18/1- 3 - 2809212 https://www.phoenixcontact.com/us/products/2809212



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

### Wiring bridge

Wiring bridge - MPB 18/1- 2 - 2809209

https://www.phoenixcontact.com/us/products/2809209



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



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#### Marker for terminal blocks

Marker for terminal blocks - ZBN 18,LGS:ERDE - 2749589 https://www.phoenixcontact.com/us/products/2749589



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

#### Marker for terminal blocks

Marker for terminal blocks - ZBN 18,LGS:L1-N,ERDE - 2749576 https://www.phoenixcontact.com/us/products/2749576



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



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#### Zack marker strip

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128 https://www.phoenixcontact.com/us/products/2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, 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

https://www.phoenixcontact.com/us/products/1051993



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

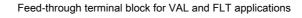


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### Feed-through terminal block

Feed-through terminal block - DK-BIC-35 - 2749880 https://www.phoenixcontact.com/us/products/2749880





#### Type 1 surge protection plug

Type 1 surge protection plug - VAL-US-120/65-P - 2910330 https://www.phoenixcontact.com/us/products/2910330



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



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### Type 1 surge protection plug

Type 1 surge protection plug - GDT-US-NG/80-P - 2910332 https://www.phoenixcontact.com/us/products/2910332



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

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