

2910359

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Surge protective device, three-channel with remote indicator contact for 120/240 V split-phase or 120/208 V Wye three-phase AC, 4-wire.

### 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

#### Commercial data

Item number	2910359
Packing unit	1 pc
Sales key	CL17
Product key	CL115U
Catalog page	Page 95 (C-4-2019)
GTIN	4055626444994
Weight per piece (including packing)	436.7 g
Weight per piece (excluding packing)	405 g
Customs tariff number	85363030
Country of origin	DE



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### Technical data

### Product properties

IEC test classification	1/11		
	T1 / T2		
EN type	T1 / T2		
IEC power supply system	TN-C		
Туре	DIN rail module, two-section, divisible		
Product type	Surge protection for NEMA power supply units		
Product family	VALVETRAB US		
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 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 rigid	1.5 mm² 35 mm²	
Conductor cross section AWG	15 2	

#### Remote fault indicator contact

Connection method	Screw connection	
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 rigid	0.14 mm² 1.5 mm²	



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	Conductor cross section AWG	28 16
Dir	mensions	
	Dimensional drawing	94.7
		99,8

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

#### Material specifications

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-PEN		
Direction of action	3L-GND		
Nominal voltage U <sub>N</sub>	120/208 V AC (TN-C)		
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)		
Maximum continuous operating voltage U <sub>C</sub> (L-PEN)	175 V AC		
Rated load current I <sub>L</sub>	80 A		
Residual current I <sub>PE</sub>	≤ 0.8 mA		
Nominal discharge current I <sub>n</sub> (8/20) μs	20 kA		
Nominal discharge current I <sub>n</sub> (8/20) μs (L-PEN)	12.5 kA		
Total discharge current I <sub>total</sub> (10/350) μs	37.5 kA		
Short-circuit current rating I <sub>SCCR</sub>	25 kA		
Voltage protection level U <sub>p</sub>	≤ 0.8 kV		
Residual voltage U <sub>res</sub>	$\leq$ 0.8 kV (at I <sub>n</sub> )		
	≤ 0.75 kV (at 10 kA)		
	≤ 0.65 kV (at 5 kA)		
	≤ 0.5 kV (at 3 kA)		
TOV behavior at U <sub>T</sub>	208 V AC (5 s / withstand mode)		
	240 V AC (120 min / safe failure mode)		
Response time t <sub>A</sub>	≤ 25 ns		
Max. backup fuse with V-type through wiring	80 A (gG)		
Max. backup fuse with branch wiring	160 A (gG)		



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#### 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)	
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)	

#### Approvals

#### UL specifications

Maximum continuous operating voltage MCOV (L-L)	350 V AC	
Maximum continuous operating voltage MCOV (L-N)	350 V (120/240S)	
Maximum continuous operating voltage MCOV (L-G)	175 V AC	
Maximum continuous operating voltage MCOV (N-G)	175 V (120/240S)	
Short-circuit current rating (SCCR)	200 kA	
Voltage protection rating VPR (L-L)	1200 V	
Voltage protection rating VPR (L-N)	1200 V (120/240S)	
Voltage protection rating VPR (L-G)	700 V	
Voltage protection rating VPR (N-G)	700 V (120/240S)	
UL type	type 1	
Nominal discharge current I <sub>n</sub>	20 kA	
Maximum Surge Current per Phase	65 kA	
Mode of protection	L-L	
	L-G	
Nominal voltage	120/208 V AC (3-phase Wye)	
	120/240 V AC (Split phase)	
Power distribution system	Wye	
Nominal frequency	50/60 Hz	
SPD Type	1	
UL indicator/remote signaling		
Operating voltage	125 V AC	
AC operating current	1 A AC	
UL connection data		
Tightening torque	30 lb <sub>f</sub> -in.	

#### Standards and regulations

Air clearances and creepage distance	istances	age	creep	and	clearances	Air
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Conductor cross section AWG

Standards/regulations EN 60664-1 / EN 61643-11	Standards/regulations	EN 60664-1 / EN 61643-11
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Standards/specifications	IEC 61643-11			
Note	2011			
Standards/specifications	EN 61643-11			
Note	2012			
Acupting .				

#### Mounting

Mounting type	DIN rail: 35 mm

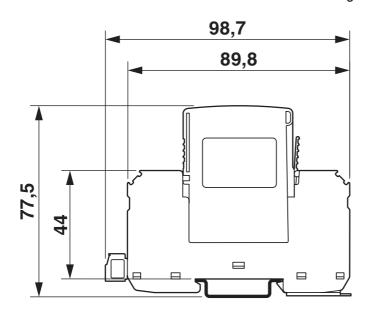


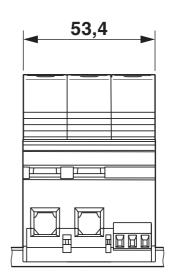
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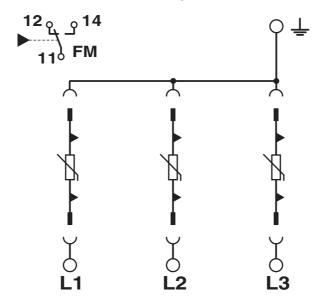
### Drawings

#### Dimensional drawing





Circuit diagram





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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2910359



**UL Listed** 

Approval ID: FILE E 330181



cUL Listed

Approval ID: FILE E 330181

**cULus Listed** 



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### Classifications

#### **ECLASS**

	ECLASS-11.0	27130805		
	ECLASS-13.0	27171202		
ETIM				
	ETIM 8.0	EC000941		
UNSPSC				

UNSPSC 21.0 39121600



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#### Accessories

#### MPB F600X16/ 1GS - Wiring bridge

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

#### MPB F200X16/ 1GS - Wiring bridge

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  $\mathrm{mm}$ 



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

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

#### MPB 18/4-12 - Wiring bridge

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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MPB 18/4-8 - Wiring bridge

2809283

https://www.phoenixcontact.com/us/products/2809283



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

#### MPB 18/3-6 - Wiring bridge

2809241

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





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#### MPB 18/1-57 - Wiring bridge

2809238

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

#### MPB 18/1-12 - Wiring bridge

2748593

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



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#### MPB 18/1-9 - Wiring bridge

2748580

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

#### MPB 18/1-8 - Wiring bridge

2748577

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



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MPB 18/1-6 - Wiring bridge

2748564

https://www.phoenixcontact.com/us/products/2748564



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

#### MPB 18/1-4 - Wiring bridge

2809225

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



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#### MPB 18/1-3 - Wiring bridge

2809212

https://www.phoenixcontact.com/us/products/2809212



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

#### MPB 18/1-2 - Wiring bridge

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

2749589

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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

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

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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### ZBN 18:UNBEDRUCKT - Zack marker strip

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

### B-STIFT - Marker pen

1051993

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



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness  $0.5\,\mathrm{mm}$ 



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

2749880

https://www.phoenixcontact.com/us/products/2749880



Feed-through terminal block for VAL and FLT applications

#### VAL-US-120/65-P - Type 1 surge protection plug

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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