

2910357

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Surge protective device, two channel with remote indicator contact for 120/240 V split phase AC, 3-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
- Secure hold of plugs in the event of high lightning current loads and strong vibrations thanks to new latching

## Commercial data

Item number	2910357
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL17
Product key	CL115U
Catalog page	Page 94 (C-4-2019)
GTIN	4055626444970
Weight per piece (including packing)	305 g
Weight per piece (excluding packing)	281 g
Customs tariff number	85363030
Country of origin	DE



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## Technical data

## Product properties

Product type	Surge protection for NEMA power supply units
Product family	VALVETRAB US
IEC test classification	1/11
	T1 / T2
EN type	T1 / T2
IEC power supply system	TN-C
Туре	DIN rail module, two-section, divisible
Number of positions	2
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
Dimensions	
Dimensional drawing	

Dimensional drawing	96,8
Width	35.6 mm
Height	96.8 mm
Depth	77.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	2 Div.

## Material specifications

Color	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-PEN
Direction of action	2L-GND
Nominal voltage U <sub>N</sub>	120/240 V AC (TN-C)
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$ (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	25 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>	≤ 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-G)	175 V AC
Short-circuit current rating (SCCR)	200 kA
Voltage protection rating VPR (L-L)	1200 V
Voltage protection rating VPR (L-G)	700 V
UL type	type 1
Nominal discharge current I <sub>n</sub>	20 kA
Maximum Surge Current per Phase	65 kA (acc. IEC61643-1)
	80 kA (acc. NEMA LS1)
Mode of protection	L-L
	L-G
Nominal voltage	120/240 V AC (Split phase)
Power distribution system	Split phase
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.
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
Note	2011
Standards/specifications	EN 61643-11
Note	2012



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## Mounting

Mounting type DIN rail: 35 mm

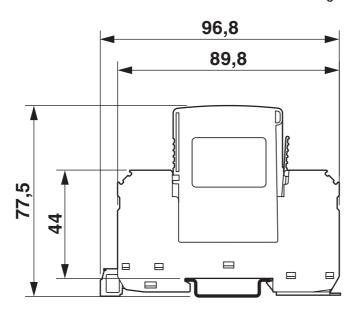


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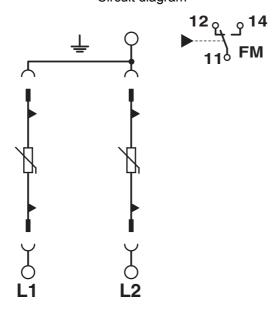
## Drawings

## Dimensional drawing





## Circuit diagram





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## **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2910357



**UL Listed** 

Approval ID: FILE E 330181



cUL Listed

Approval ID: FILE E 330181

**cULus Listed** 



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## Classifications

## **ECLASS**

	FOLACC 44.0	07420005	
	ECLASS-11.0	27130805	
	ECLASS-13.0	27171202	
ETIM			
	ETIM 9.0	EC000941	
UNSPSC			

UNSPSC 21.0 39121600



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## Environmental product compliance

EU RoHS			
Fulfills EU RoHS substance requirements	Yes, No exemptions		
China RoHS			
Environment friendly use period (EFUP)	EFUP-E		
	No hazardous substances above the limits		
EU REACH SVHC			
REACH candidate substance (CAS No.)	No substance above 0.1 wt%		



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### Accessories

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

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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## MPB 18/1-57 - Wiring bridge

2809238

https://www.phoenixcontact.com/us/products/2809238



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

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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

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

#### 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

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

2749880

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



Feed-through terminal block for VAL and FLT applications



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## 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 mm

### SZK PZ2 VDE - Screwdriver

1206463

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Screwdriver, PZ crosshead, VDE insulated, size: PZ  $2 \times 100$  mm, 2-component grip, with non-slip grip



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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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