

2910357

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

Commercial data

Item number	2910357
Packing unit	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



2910357

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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	2
Surge protection fault message	Optical, remote indicator contact
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

Electrical properties

Nominal frequency f _N	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 ² 16 mm ²)
	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



2910357

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Conductor cross section AWG	28 16
Dimensions	
Difficiolotio	
Dimensional drawing	96,6 99,6 99,6 99,6 99,6 99,6 99,6 99,6
Width	35.6 mm
Height	96.8 mm
Depth	77.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	2 Div.
Material specifications	
Flammability rating according to UL 94	V-0
CTI value of material	600

PA 6.6/PBT

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PA 6.6 PBT

Protective circuit

Insulating material

Material group

Housing material

Mode of protection	L-PEN
Direction of action	2L-GND
Nominal voltage U _N	120/240 V AC (TN-C)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C (L-PEN)	175 V AC
Rated load current I _L	80 A
Residual current I _{PE}	≤ 0.8 mA
Nominal discharge current I _n (8/20) µs	20 kA
Nominal discharge current I_n (8/20) μ s (L-PEN)	12.5 kA
Total discharge current I _{total} (10/350) µs	25 kA
Short-circuit current rating I _{SCCR}	25 kA
Voltage protection level U _p	≤ 0.8 kV
Residual voltage U _{res}	\leq 0.8 kV (at I_n)
	≤ 0.75 kV (at 10 kA)
	≤ 0.65 kV (at 5 kA)
	≤ 0.5 kV (at 3 kA)
TOV behavior at U _T	208 V AC (5 s / withstand mode)
	240 V AC (120 min / safe failure mode)
Response time t _A	≤ 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 _n	20 kA
Maximum Surge Current per Phase	65 kA
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

oz comiection data	
Tightening torque	30 lb _f 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

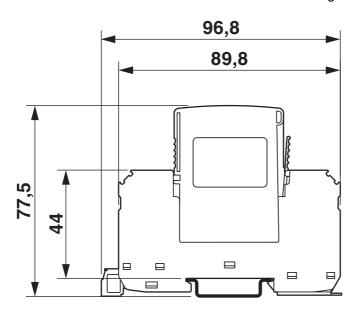


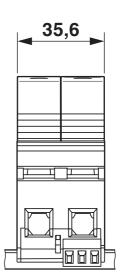
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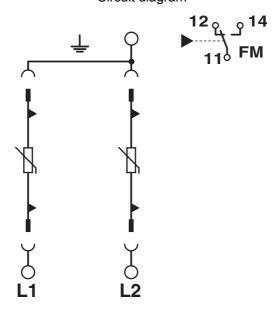
Drawings

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



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Classifications

ECLASS

	ECLASS-11.0	27130805
	LCLA33-11.0	27130003
	ECLASS-13.0	27171202
ETIM		
L11	IIVI	
	ETIM 8.0	EC000941
UNSPSC		

UNSPSC 21.0 39121600



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Accessories

MPB F600X16/ 1GS - Wiring bridge

2818355

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

MPB F200X16/ 1GS - Wiring bridge

2818339

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



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MPB 18/1-10/1.0.0 - Wiring bridge

2830443

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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

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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

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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

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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

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

MPB 18/1-2 - Wiring bridge

2809209

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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

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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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