

2910345

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Surge protective device, single channel with remote indicator contact for 48 V DC.

Your advantages

- · Thermal disconnect device for each individual plug
- · Optical, mechanical status indication for the individual arresters
- Pluggable
- · Thermal disconnect device for each individual plug
- · Mechanical coding of all slots
- · Secure hold of plugs in the event of high lightning current loads and strong vibrations thanks to new latching

Commercial data

Item number	2910345
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL17
Product key	CL115U
Catalog page	Page 90 (C-4-2019)
GTIN	4055626444871
Weight per piece (including packing)	156 g
Weight per piece (excluding packing)	130 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	DC
Туре	DIN rail module, two-section, divisible
Number of positions	1
Surge protection fault message	Optical, remote indicator contact
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

Electrical properties

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 (30 V 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 min.	1.5 mm ²
Conductor cross section flexible max.	25 mm²
Conductor cross section, rigid min.	1.5 mm ²
Conductor cross section, rigid max.	35 mm²
Conductor cross section flexible	1.5 mm² 25 mm²
Conductor cross section rigid	1.5 mm² 35 mm²
Conductor cross section AWG	14 2 (UL)

Remote fault indicator contact

Connection method	Screw connection
Screw thread	M2
Tightening torque	0.25 Nm



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Stripping length	7 mm
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section AWG	28 16

Dimensions

Dimensional drawing	96,6
Width	17.6 mm
Height	96.8 mm
Depth	77.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 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	(DC+) - (DC-)
Direction of action	1L-GND
Nominal voltage U _N	60 V AC ±10 % (TN-C)
	60 V DC ±10 %
	-48 V DC ±10 % (RRH)
Maximum continuous voltage U _C	100 V DC
Rated load current I _L	80 A
Residual current I _{PE}	≤ 0.6 mA
Nominal discharge current I _n (8/20) μs	12.5 kA
Total discharge current I _{total} (10/350) μs	12.5 kA
Short-circuit current rating I _{SCCR}	5 kA
Voltage protection level U _p	≤ 0.4 kV
Residual voltage U _{res}	≤ 0.4 kV (at I _n)
	≤ 0.35 kV (at 10 kA)
	≤ 0.3 kV (at 5 kA)
	≤ 0.25 kV (at 3 kA)
TOV behavior at U _T	130 V DC (5 s / withstand mode)
Response time t _A	≤ 25 ns



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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)
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	100 V DC
Short-circuit current rating (SCCR)	5 kA
Voltage protection rating VPR	400 V
UL type	type 1
Nominal discharge current I _n	20 kA
Maximum Surge Current per Phase	65 kA
Mode of protection	(DC+) - (DC-)
Nominal voltage	48 V DC
Power distribution system	DC
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 _f -in.
Conductor cross section AWG	14 2

Standards and regulations

Air clearances and creepage distances

1 0	
Standards/regulations	EN 60664-1 / EN 61643-11
Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

Mounting

Mounting type	DIN rail: 35 mm
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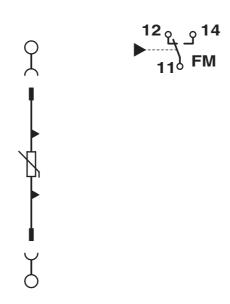


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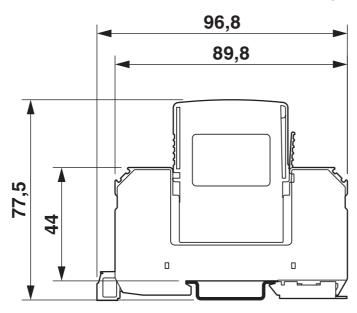
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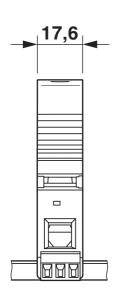
Drawings

Circuit diagram



Dimensional drawing







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Approvals

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UL Listed

Approval ID: FILE E 330181



cUL Listed

Approval ID: FILE E 330181

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Classifications

ECLASS

	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

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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: 18×5 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

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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 2×100 mm, 2-component grip, with non-slip grip



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VAL-US-48/65-P - Type 1 surge protection plug

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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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