

2910353

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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.

Commercial data

Item number	2910353
Packing unit	1 pc
Sales key	CL17
Product key	CL132U
Catalog page	Page 95 (C-4-2019)
GTIN	4055626444932
Weight per piece (including packing)	312 g
Weight per piece (excluding packing)	285 g
Customs tariff number	85363030
Country of origin	DE



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Technical data

Product properties

IEC test classification	II II
	T2
EN type	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 _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



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	Conductor cross section AWG	28 16
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Dimensions

Dimensional drawing	96.7 99.8 99.8 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Width	53.4 mm
Height	98.7 mm
Depth	65.7 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 _N	120/208 V AC (TN-C)
Nominal frequency f _N	50 Hz (60 Hz)
Rated load current I _L	80 A
Standby power consumption $P_{\mathbb{C}}$	≤ 400 mVA
Nominal discharge current I _n (8/20) μs	20 kA
Short-circuit current rating I _{SCCR}	25 kA
Voltage protection level U _p	≤ 0.9 kV
Residual voltage U _{res}	≤ 0.9 kV (at I _n)
	≤ 0.75 kV (at 10 kA)
	≤ 0.6 kV (at 5 kA)
	≤ 0.55 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	125 A (gG)

Environmental and real-life conditions

Ambient conditions

Degree of protection IP20 (only when all terminal points are used)
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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)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	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 _n	20 kA
Maximum Surge Current per Phase	40 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

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

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

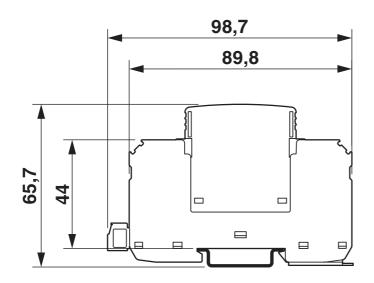


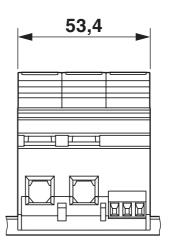
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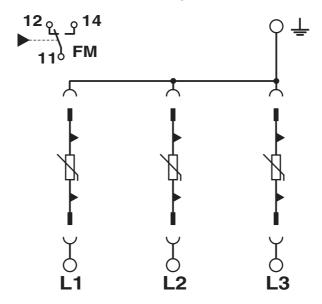
Drawings

Dimensional drawing





Circuit diagram





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Approvals

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Approval ID: FILE E 330181



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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

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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

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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

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Feed-through terminal block for VAL and FLT applications

VAL-US-120/40-P - Type 1 surge protection plug

2910335

https://www.phoenixcontact.com/us/products/2910335



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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