

2910377

https://www.phoenixcontact.com/us/products/2910377

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Surge protective device, single channel with remote indicator contact for 277 V AC.



### Your advantages

- · With floating remote indication contact
- Type 2 consistent plug-in surge arresters
- · Optical, mechanical status indication for the individual arresters
- Multi-channel type 2 arresters
- Mechanical coding of all slots
- · Plugs can be checked with CHECKMASTER
- Disconnect device on each individual plug

### **Commercial Data**

Item number	2910377
Packing unit	1 pc
Note	Made to Order (non-returnable)
Sales Key	C06
Product Key	CL132U
Catalog Page	Page 92 (C-4-2019)
GTIN	4055626445151
Weight per Piece (including packing)	185 g
Weight per Piece (excluding packing)	160 g
Customs tariff number	85363030
Country of origin	DE



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### **Technical Data**

### Product properties

IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN-C
Туре	DIN rail module, two-section, divisible
Product type	Surge arrester
Number of positions	1
Surge protection fault message	Optical, remote indicator contact
Insulation characteristics	
	111
Overvoltage category	
Overvoltage category Pollution degree	2
Pollution degree	
Pollution degree ectrical properties Nominal frequency f <sub>N</sub>	2
Pollution degree ectrical properties	2
Pollution degree ectrical properties Nominal frequency f <sub>N</sub> Indicator/remote signaling	2 50 Hz (60 Hz)
Pollution degree ectrical properties Nominal frequency f <sub>N</sub> Indicator/remote signaling Connection name	2 50 Hz (60 Hz) Remote fault indicator contact
Pollution degree ectrical properties Nominal frequency f <sub>N</sub> Indicator/remote signaling Connection name Switching function	2 50 Hz (60 Hz) Remote fault indicator contact Changeover contact
Pollution degree ectrical properties Nominal frequency f <sub>N</sub> Indicator/remote signaling Connection name Switching function	2 50 Hz (60 Hz) Remote fault indicator contact Changeover contact 5 V AC 250 V AC

### Connection data

Connection method	Screw connection	
Screw thread	M5	
Tightening torque	3 Nm (1.5 mm² 16 mm²)	
	4.5 Nm (25 mm <sup>2</sup> 35 mm <sup>2</sup> )	
Stripping length	16 mm	
Conductor cross section flexible	1.5 mm <sup>2</sup> 25 mm <sup>2</sup>	
Conductor cross section solid	1.5 mm <sup>2</sup> 35 mm <sup>2</sup>	
Conductor cross section AWG	15 2	
Connection method	Fork-type cable lug	
Conductor cross section flexible	1.5 mm <sup>2</sup> 16 mm <sup>2</sup>	
Remote fault indicator contact		
Connection method	Plug-in/screw connection via COMBICON	
Screw thread	M2	
Tightening torque	0.25 Nm	

0.14 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>

0.14 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>

Conductor cross section flexible

Conductor cross section solid



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	Conductor cross section AWG	28 16
Dir	mensions	

Dimensional drawing	
Width	17.6 mm
Height	98.7 mm
Depth	77.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 Div.

#### Material specifications

Color	jet 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. Contraction of the second se
Housing material	PA 6.6
	РВТ

#### Protective circuit

Mode of protection	L-PEN
Direction of action	1L-GND
Nominal voltage U <sub>N</sub>	240/415 V AC (TN-C)
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous voltage U <sub>C</sub>	385 V AC
Residual current I <sub>PE</sub>	≤ 600 µA
Nominal discharge current I <sub>n</sub> (8/20) μs	40 kA
Maximum discharge current I <sub>max</sub> (8/20) µs	80 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Voltage protection level U <sub>p</sub>	≤ 2 kV
Residual voltage U <sub>res</sub>	≤ 2 kV (at I <sub>n</sub> )
	≤ 1.3 kV (at 10 kA)
	≤ 1.2 kV (at 5 kA)
	≤ 1.15 kV (at 3 kA)
TOV behavior at U <sub>T</sub>	480 V AC (5 s / withstand mode)
	530 V AC (120 min / safe failure mode)
Max. backup fuse with branch wiring	125 A (gG)

### Environmental and real-life 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 (above mean sea level))
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)

#### Approval data

UL specifications		
Short-circuit current rating (SCCR)	200 kA	
UL type	type 1	
Maximum Surge Current per Phase	80 kA	
Mode of protection	L-N	
	L-G	
Nominal voltage	277/480 V AC (Single-phase)	
Power distribution system	Single phase	
Nominal frequency	50/60 Hz	
SPD Type	1	
AC 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
Standards/specifications	EN 61643-11

#### Mounting

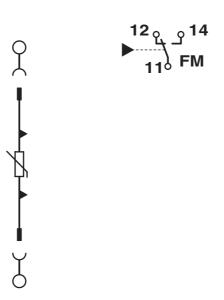


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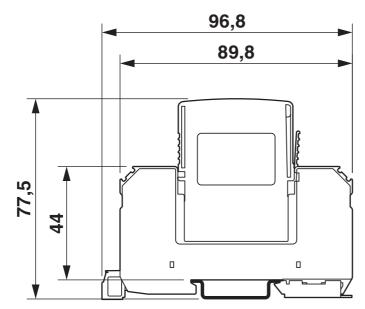
https://www.phoenixcontact.com/us/products/2910377

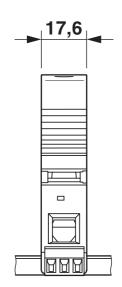
Drawings

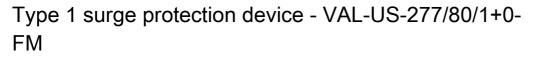
Circuit diagram



Dimensional drawing









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### Approvals



CUL Listed
 Approval ID: FILE E 330181

cULus Listed



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### Classifications

#### ECLASS

ECLASS-9.0	27130805
ECLASS-10.0.1	27130805
ECLASS-11.0	27130805
ECLASS-12.0	27171202

### ETIM

ETIM 8.0	EC000941

### UNSPSC

UNSPSC 21.0

39121600



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### Accessories

#### Wiring bridge

Wiring bridge - MPB F600X16/ 1GS - 2818355 https://www.phoenixcontact.com/us/products/2818355



Wiring bridge flexible, diameter: 16  $\mathrm{mm}^2,$  with a fork-type cable lug on one side, length: 600  $\mathrm{mm}$ 

### Wiring bridge

Wiring bridge - MPB F200X16/ 1GS - 2818339 https://www.phoenixcontact.com/us/products/2818339



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



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#### Wiring bridge

Wiring bridge - MPB 18/1-10/1.0.0 - 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  $\,$ 

#### Wiring bridge

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

Wiring bridge - MPB 18/4- 8 - 2809283 https://www.phoenixcontact.com/us/products/2809283



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

#### Wiring bridge

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

Wiring bridge - MPB 18/1-57 - 2809238 https://www.phoenixcontact.com/us/products/2809238



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

### Wiring bridge

Wiring bridge - MPB 18/1-12 - 2748593 https://www.phoenixcontact.com/us/products/2748593



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



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### Wiring bridge

Wiring bridge - MPB 18/1- 9 - 2748580 https://www.phoenixcontact.com/us/products/2748580



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

#### Wiring bridge

Wiring bridge - MPB 18/1- 8 - 2748577 https://www.phoenixcontact.com/us/products/2748577



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



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### Wiring bridge

Wiring bridge - MPB 18/1- 6 - 2748564 https://www.phoenixcontact.com/us/products/2748564



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

#### Wiring bridge

Wiring bridge - MPB 18/1- 4 - 2809225 https://www.phoenixcontact.com/us/products/2809225



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



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### Wiring bridge

Wiring bridge - MPB 18/1- 3 - 2809212 https://www.phoenixcontact.com/us/products/2809212



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

#### Wiring bridge

Wiring bridge - MPB 18/1- 2 - 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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Marker for terminal blocks

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

#### Marker for terminal blocks

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

Zack marker strip - ZBN 18:UNBEDRUCKT - 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

#### Marker pen

Marker pen - B-STIFT - 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  $\rm mm$ 



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#### Feed-through terminal block

Feed-through terminal block - DK-BIC-35 - 2749880 https://www.phoenixcontact.com/us/products/2749880



Feed-through terminal block for VAL and FLT applications

#### Type 1 surge protection plug

Type 1 surge protection plug - VAL-US-277/80-P - 2910331 https://www.phoenixcontact.com/us/products/2910331



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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