

2910348

https://www.phoenixcontact.com/us/products/2910348

Please be informed that the data shown in this PDF document is generated from our Online Catalog. Please find the complete data in the user documentation. Our General Terms of Use for Downloads are valid.

Surge protective device, single channel with remote indicator contact for 120 V AC



# Commercial Data

Item number	2910348
Packing unit	1 pc
Note	Made to Order (non-returnable)
Sales Key	C06
Product Key	CL132U
Catalog Page	Page 92 (C-4-2019)
GTIN	4055626444895
Weight per Piece (including packing)	135 g
Weight per Piece (excluding packing)	135 g
Customs tariff number	85363030
Country of origin	DE



2910348

https://www.phoenixcontact.com/us/products/2910348

# **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	
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

5 mA AC ... 1.5 A AC

1 A DC

# Connection data

Operating current

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm (1.5 mm <sup>2</sup> 16 mm <sup>2</sup> )
	4.5 Nm (25 mm² 35 mm²)
Stripping length	16 mm
Conductor cross section flexible	1.5 mm² 25 mm²
Conductor cross section solid	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
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section solid	0.14 mm² 1.5 mm²
Conductor cross section AWG	28 16



2910348

https://www.phoenixcontact.com/us/products/2910348

# **Dimensions**

Dimensional drawing	96.8 99.8 17.6
Width	17.6 mm
Height	96.8 mm
Depth	65.7 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
Housing material	PA 6.6
	PBT

#### Protective circuit

Mode of protection	L-PEN
Direction of action	1L-GND
Nominal voltage U <sub>N</sub>	120 V AC (TN-C)
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Rated load current I <sub>L</sub>	80 A
Residual current I <sub>PE</sub>	≤ 0.45 mA
Nominal discharge current I <sub>n</sub> (8/20) μs	20 kA
Maximum discharge current I <sub>max</sub> (8/20) μs	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Voltage protection level U <sub>p</sub>	≤ 0.9 kV
Residual voltage U <sub>res</sub>	$\leq$ 0.9 kV (at I <sub>n</sub> )
	≤ 0.75 kV (at 10 kA)
	≤ 0.6 kV (at 5 kA)
	≤ 0.55 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	125 A (gG)

# Environmental and real-life conditions

Ambient conditions



2910348

https://www.phoenixcontact.com/us/products/2910348

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 (above mean sea level))
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)

# Approval data

# UL specifications

Short-circuit current rating (SCCR)	200 kA
UL type	type 1
Maximum Surge Current per Phase	40 kA
Mode of protection	L-N
Nominal voltage	120 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

Mounting type	DIN rail: 35 mm	

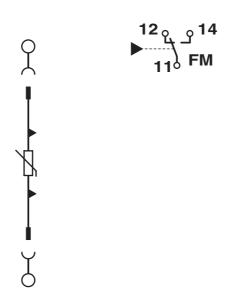


2910348

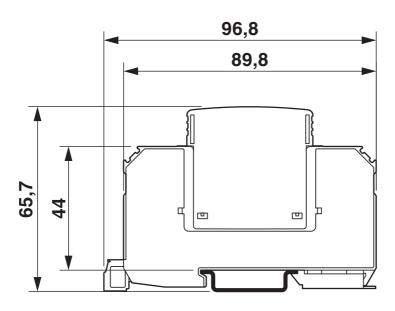
https://www.phoenixcontact.com/us/products/2910348

# Drawings

Circuit diagram



# Dimensional drawing







2910348

https://www.phoenixcontact.com/us/products/2910348

# Approvals



UL Listed

Approval ID: FILE E 330181



cUL Listed

Approval ID: FILE E 330181

**cULus Listed** 



2910348

https://www.phoenixcontact.com/us/products/2910348

# Classifications

# **ECLASS**

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

# ET

ETIM 8.0	EC000941

# **UNSPSC**

UNSPSC 21.0	39121600
-------------	----------



2910348

https://www.phoenixcontact.com/us/products/2910348

#### Accessories

# Wiring bridge

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



Wiring bridge flexible, diameter: 16 mm<sup>2</sup>, with a fork-type cable lug on one side, length: 600 mm

# Wiring bridge

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



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



2910348

https://www.phoenixcontact.com/us/products/2910348

# 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.



2910348

https://www.phoenixcontact.com/us/products/2910348

# 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.





2910348

https://www.phoenixcontact.com/us/products/2910348

# 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.



2910348

https://www.phoenixcontact.com/us/products/2910348

# 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.



2910348

https://www.phoenixcontact.com/us/products/2910348

# 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.





2910348

https://www.phoenixcontact.com/us/products/2910348

# 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.





2910348

https://www.phoenixcontact.com/us/products/2910348

#### 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



2910348

https://www.phoenixcontact.com/us/products/2910348

#### 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 mm

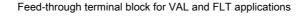


2910348

https://www.phoenixcontact.com/us/products/2910348

#### Feed-through terminal block

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





#### Type 1 surge protection plug

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

Phoenix Contact 2022 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com