

2910390

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Surge protective device, two channel with remote indicator contact for 600 V AC cornergrounded DELTA.

# **Commercial Data**

Item number	2910390
Packing unit	1 pc
Sales Key	CL17
Product Key	CL132U
Catalog Page	Page 98 (C-4-2019)
GTIN	4055626445274
Weight per Piece (including packing)	278 g
Weight per Piece (excluding packing)	255 g
Customs tariff number	85363030
Country of origin	DE



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# **Technical Data**

### Notes

General	
Note	Additional information for IT systems as used for 2920256

## Product properties

IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN-C
	ІТ
Туре	DIN rail module, two-section, divisible
Distance between live and grounded parts	8 mm
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
sulation characteristics	
Overvoltage category	III
Pollution degree	2
ctrical properties	
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
dicator/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
Operating current	

## Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm (1.5 mm <sup>2</sup> 16 mm <sup>2</sup> )
	4.5 Nm (25 mm <sup>2</sup> 35 mm <sup>2</sup> )
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
Connection method	Fork-type cable lug



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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
Stripping length	7 mm
Conductor cross section flexible	0.14 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section rigid	0.14 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section AWG	28 16

#### Dimensions

Dimensional drawing

Width	35.6 mm
Height	96.8 mm
Depth	65.7 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
Insulating material	PA 6.6/PBT
Material group	1
Housing material	PA 6.6
	PBT

### Protective circuit

Mode of protection	L-PE
Direction of action	2L-GND
Nominal voltage U <sub>N</sub>	600 V AC (IT)
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous voltage U <sub>C</sub>	750 V AC
Standby power consumption $P_C$	≤ 400 mVA
Nominal discharge current $I_n$ (8/20) µs	15 kA
Maximum discharge current I <sub>max</sub> (8/20) µs	30 kA
Short-circuit current rating ISCCR	25 kA
Voltage protection level Up	≤ 2.9 kV
Residual voltage U <sub>res</sub>	$\leq$ 2.9 kV (at I <sub>n</sub> )
	≤ 2.7 kV (at 10 kA)
	≤ 2.5 kV (at 5 kA)



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	≤ 2.3 kV (at 3 kA)
TOV behavior at U <sub>T</sub>	1000 V AC (5 s / withstand mode)
	1056 V AC (120 min / safe failure mode)
Max. backup fuse with branch wiring	100 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)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 500 Hz / 2.5 h / X, Y, Z)

## Approvals

UL specifications	
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Maximum continuous operating voltage MCOV (L-L)	750 V AC
Maximum continuous operating voltage MCOV (L-G)	750 V AC
Short-circuit current rating (SCCR)	200 kA
Voltage protection rating VPR (L-L)	4000 V
Voltage protection rating VPR (L-G)	2500 V
UL type	type 1
Nominal discharge current I <sub>n</sub>	20 kA
Maximum Surge Current per Phase	30 kA
Mode of protection	L-L
	L-G
Nominal voltage	600 V AC (3-phase corner-grounded Delta)
Power distribution system	Delta
Nominal frequency	50/60 Hz
SPD Type	1
L indicator/remote signaling	
AC operating voltage	125 V AC
AC operating current	1 A AC
L connection data	
Tightening torque	30 lb <sub>f</sub> -in.
Conductor cross section AWG	14 2

Air clearances and creepage distances		
Standards/regulations	EN 60664-1 / EN 61643-11	
Standards/specifications	IEC 61643-11	



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Note	2011		
Standards/specifications	EN 61643-11		
Note	2012		
Mounting			

Mounting type	DIN rail: 35 mm



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# Drawings



Dimensional drawing







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# Approvals

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CUL Listed
Approval ID: FILE E 330181

cULus Listed



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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

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

## MPB F200X16/ 1GS - Wiring bridge

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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MPB 18/1-10/1.0.0 - Wiring bridge

#### 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  $\,$ 

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

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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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 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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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 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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MPB 18/1-9 - Wiring bridge

#### 2748580

https://www.phoenixcontact.com/us/products/2748580



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

### MPB 18/1-8 - Wiring bridge

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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MPB 18/1-6 - Wiring bridge

#### 2748564

https://www.phoenixcontact.com/us/products/2748564



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

### MPB 18/1-4 - Wiring bridge

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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MPB 18/1-3 - Wiring bridge

2809212 https://www.phoenixcontact.com/us/products/2809212



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

### MPB 18/1-2 - Wiring bridge

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

#### 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

### 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

#### 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  $\rm mm$ 



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## VAL-US-600D/30-P - Type 1 surge protection plug

#### 2910341

https://www.phoenixcontact.com/us/products/2910341



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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