

2807586

https://www.phoenixcontact.com/us/products/2807586

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Surge protection connector type 2 with high-capacity varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 120 V AC

#### Your advantages

- · Quality proven millions of times over in the widest range of applications
- · Rapid installation with bridges, thanks to industry-standard overall width of 1 HP
- · Easy testing and insulation measurement, thanks to pluggable protection modules
- · Wide range of applications due to various nominal voltages
- High degree of modularity provides individual solutions for every application

#### Commercial data

Item number	2807586
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CL18
Product key	CL1321
Catalog page	Page 66 (C-4-2019)
GTIN	4017918075279
Weight per piece (including packing)	35.44 g
Weight per piece (excluding packing)	34.4 g
Customs tariff number	85363030
Country of origin	DE



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### Technical data

#### Notes

Order information:	Use in DC applications on request
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#### Product properties

Replacement plug
VALVETRAB MS
II
T2
T2
TN
DIN rail module, two-section, divisible
1
optical
From SW rev. 1.10

#### Insulation characteristics

Overvoltage category	III
Pollution degree	2

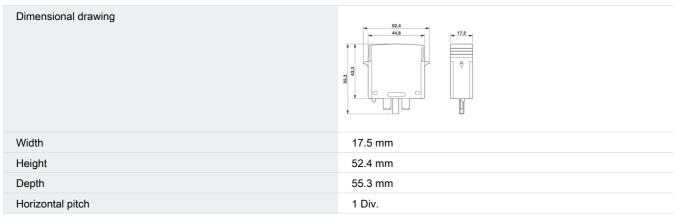
#### Electrical properties

Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
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#### Connection data

Connection method	pluggable
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### **Dimensions**



#### Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600



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Insulating material	PA 6.6
Material group	1
Housing material	PA 6.6

#### Protective circuit

Mode of protection	L-N
	L-PEN
Direction of action	1L-N/PE
Nominal voltage U <sub>N</sub>	120/208 V AC (TN)
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous voltage U <sub>C</sub>	150 V AC
Residual current I <sub>PE</sub>	≤ 0.45 mA
Standby power consumption P <sub>C</sub>	≤ 70.00 mVA
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>	≤ 0.9 kV (at I <sub>n</sub> )
	≤ 0.7 kV (at 10 kA)
	≤ 0.55 kV (at 5 kA)
	≤ 0.55 kV (at 3 kA)
TOV behavior at U <sub>T</sub>	175 V AC (5 s / withstand mode)
	230 V AC (120 min / safe failure mode)
Response time t <sub>A</sub>	≤ 25 ns
Max. backup fuse with branch wiring	125 A (gG)

#### Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
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-N)	150 V AC
Nominal discharge current I <sub>n</sub> (L-N)	20 kA
Mode of protection	L-N
Nominal voltage	120 V AC
Power distribution system	Single phase



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	Nominal frequency	50/60 Hz		
	Measured limiting voltage MLV (L-N)	1490 V		
	SPD Type	4CA		
Sta	Standards and regulations			
	Standards/specifications	IEC 61643-11		
	Note	2011		
	Standards/specifications	EN 61643-11		
	Note	2012		
Mounting				
	Mounting type	on base element		

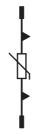


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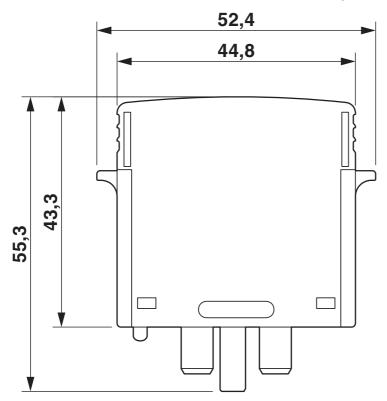
https://www.phoenixcontact.com/us/products/2807586

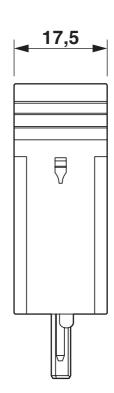
### Drawings

Circuit diagram



### Dimensional drawing







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#### Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2807586



cUL Recognized

Approval ID: FILE E 330181



**UL Recognized** 

Approval ID: FILE E 330181



**IECEE CB Scheme** 

Approval ID: AT 2905/M1



EAC

Approval ID: EAC-Zulassung

CCA

Approval ID: NTR-AT 1947-A



**KEMA-KEUR** 

Approval ID: 71-113273 REV.1



EAC

Approval ID: RU C-DE.\*09.B.00169



CSA

Approval ID: 13631



ÖVE

Approval ID: 18583-001-17

**UAE-RoHS** 

Approval ID: 22-09-51250

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### Classifications

#### **ECLASS**

	ECLASS-11.0	27130890		
	ECLASS-13.0	27171292		
ETIM				
	ETIM 9.0	EC002496		
UNSPSC				

UNSPSC 21.0	39121600



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### Environmental product compliance

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

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 18/4-8 - Wiring bridge

2809283

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



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

2809241

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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.



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#### 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.

#### 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.



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#### 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.

#### 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.



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#### 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.

#### 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.



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#### 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.

#### 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



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

2749576

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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

#### 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



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### ZBN 18 CUS - Zack marker strip

0825059

https://www.phoenixcontact.com/us/products/0825059



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

#### VAL-MS BE - Type 2 surge protection base element

2817741

https://www.phoenixcontact.com/us/products/2817741



Base element for type 2 arresters of the VALVETRAB MS series of products. Design: 1-channel  $\,$ 



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#### VAL-MS BE/FM - Type 2 surge protection base element

2817738

https://www.phoenixcontact.com/us/products/2817738



Base element for type 2 arresters of the VALVETRAB MS series of products, with remote indication contact. Design: 1-channel

#### 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

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