

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	CL1
Product Key	CL1321
Catalog Page	Page 66 (C-4-2019)
GTIN	4017918075279
Weight per Piece (including packing)	35.374 g
Weight per Piece (excluding packing)	34.4 g
Customs tariff number	85363010
Country of origin	IN



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Technical Data

Notes

Order information:	Use in DC applications on request		
Product properties			
IEC test classification	II		
	T2		
EN type	T2		
IEC power supply system	TN		
Туре	DIN rail module, two-section, divisible		
Product type	Replacement plug		
Product family	VALVETRAB MS		
Number of positions	1		
Surge protection fault message	optical		
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10		
Insulation characteristics			
Overvoltage category	III		
Pollution degree	2		

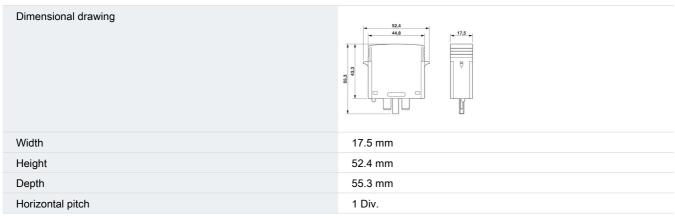
Electrical properties

Nominal frequency f _N	50 Hz (60 Hz)

Connection data

Connection method pluggable	
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Dimensions



Material specifications

Color	jet 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 _N	120/208 V AC (TN)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage $\mathbf{U}_{\mathbf{C}}$	150 V AC
Residual current I _{PE}	≤ 0.45 mA
Standby power consumption $P_{\mathbb{C}}$	≤ 70 mVA
Nominal discharge current I_n (8/20) μ s	20 kA
Maximum discharge current I _{max} (8/20) μs	40 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)
	≤ 0.7 kV (at 10 kA)
	≤ 0.55 kV (at 5 kA)
	≤ 0.55 kV (at 3 kA)
TOV behavior at U _T	175 V AC (5 s / withstand mode)
	230 V AC (120 min / safe failure mode)
Response time t _A	≤ 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 (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)

Approvals

UL specifications

P	
Maximum continuous operating voltage MCOV (L-N)	150 V AC
Nominal discharge current I _n (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		
Standards and regulations				
	Standards/specifications	IEC 61643-11		
	Standards/specifications	EN 61643-11		
Mounting				
	Mounting type	on base element		

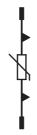


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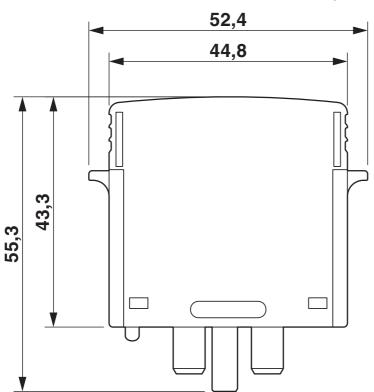
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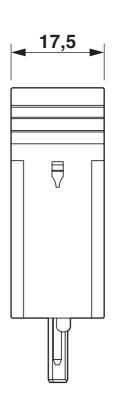
Drawings

Circuit diagram



Dimensional drawing







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Approvals



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



KEMA-KEUR

Approval ID: 71-113273 REV.1



EAC

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



CSA

Approval ID: 13631



ÖVE

Approval ID: 18583-001-16



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Classifications

	ECLASS-11.0	27130890		
E	ГІМ			
	ETIM 8.0	EC002496		
UNSPSC				
	UNSPSC 21.0	39121600		



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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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Accessories

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 18/4-8 - Wiring bridge

2809283

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



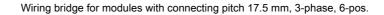
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MPB 18/3-6 - Wiring bridge

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

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

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.



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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.

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.



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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.

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

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Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 2-pos.

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



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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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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 mm

VAL-MS BE - Type 2 surge protection base element

2817741

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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/in/products/2817738



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

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