

1068842

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Type 2 surge protection plug with high-capacity varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 690 V AC

Commercial data

Item number	1068842
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CL1
Product key	CL1321
GTIN	4055626743905
Weight per piece (including packing)	79.79 g
Weight per piece (excluding packing)	70.5 g
Customs tariff number	85363010
Country of origin	DE



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Technical data

Notes

Note	For use in all low-voltage systems between L-PEN.
	Only for use in IT systems between L-PE if the bodies of the equipment in the low-voltage system are connected to the grounding system of the transformer station. (common grounding of the HV transformer station and the bodies of the LV consumer's installation. $R_{\rm E}$ = $R_{\rm A}$ according to IEC 60364-4-442/VDE 0100-442 Figure 44D/example a)
	A maximum backup fuse (with branch line wiring) of F=250 A gG can be used for systems with a prospective short-circuit current of between 3 kA to 50 kA.

Product properties

Product type	Replacement plug
Product family	VALVETRAB MS
IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN
	IT
Туре	Male
Distance between live and grounded parts	8 mm
Number of positions	1
Surge protection fault message	optical

Insulation characteristics

Overvoltage category	III
Pollution degree	2

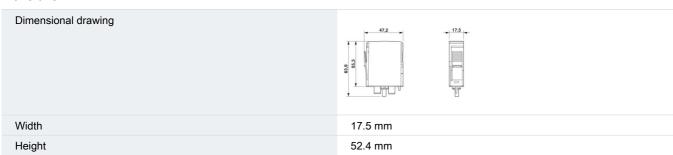
Electrical properties

Nominal frequency f _N	50 Hz (60 Hz)

Connection data

Connection method pluggable		
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Dimensions





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Depth	55.3 mm
Horizontal pitch	1 Div.

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6
Material group	I
Housing material	PA 6.6

Protective circuit

Mode of protection	L-PE (IT)
	L-PEN (TN-C)
Direction of action	1L-N/PE
Nominal voltage U _N	554/960 V AC (TN)
	690 V AC (IT)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage U _C	760 V AC
Residual current I _{PE}	≤ 0.5 mA
Standby power consumption $P_{\mathbb{C}}$	≤ 400 mVA
Nominal discharge current I _n (8/20) μs	20 kA
Maximum discharge current I _{max} (8/20) μs	30 kA
Short-circuit current rating I _{SCCR}	25 kA
Voltage protection level U _p	≤ 2.9 kV
TOV behavior at U _T	1005 V AC (5 s / withstand mode)
	1056 V AC (120 min / safe failure mode)
Response time t _A	≤ 25 ns
Max. backup fuse with branch wiring	200 A (gG)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 °C 85 °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)	750 V AC	
Waximum continuous operating voltage Weev (E 14)	700 770	



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Nominal discharge current I _n (L-N)	20 kA
Mode of protection	L-N
Nominal voltage	690 V AC
Power distribution system	Single phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	3040 V
SPD Type	4CA

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

Mounting

Mounting type	on base element

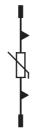


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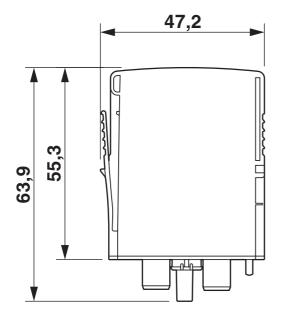
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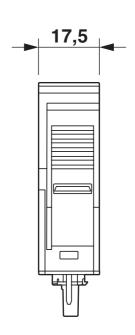
Drawings

Circuit diagram



Dimensional drawing







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Approvals

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cUL Recognized

Approval ID: FILE E 330181



UL Recognized

Approval ID: FILE E 330181



IECEE CB Scheme

Approval ID: NL-53346

CCA

Approval ID: NTR-NL 7701



KEMA-KEUR

Approval ID: 71-104925

UAE-RoHS

Approval ID: 22-09-51251

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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

EU RoHS				
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

ZBN 18 CUS - Zack marker strip

0825059

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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, Number of individual labels: 5, text field height: 5 mm, text field width: 18 mm

ZBN 18,LGS:ERDE - Marker for terminal blocks

2749589

https://www.phoenixcontact.com/in/products/2749589



Marker for terminal blocks, Strip, white, labeled, horizontal: Grounding symbol, mounting type: latching, for terminal block width: 18 mm, Number of individual labels: 5, text field height: 5 mm, text field width: 18 mm



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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: latching, for terminal block width: 18 mm, Number of individual labels: 5, text field height: 5 mm, text field width: 18 mm

ZBN 18:UNBEDRUCKT - Zack marker strip

2809128

https://www.phoenixcontact.com/in/products/2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: latching, for terminal block width: 18 mm, Number of individual labels: 5, text field height: 5 mm, text field width: 18 mm



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VAL-MS-T1/T2 BE-FM - Base element

2801047

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Base element for type 1/2 arresters from the VALVETRAB MS T1/T2 product range, with remote indication contact. Version: 1-channel

B-STIFT - Marker pen

1051993

https://www.phoenixcontact.com/in/products/1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness $0.5\,\mathrm{mm}$

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