

2920434

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Type 2 surge protection plug with high-capacity varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 580 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	2920434
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CL18
Product key	CL1321
Catalog page	Page 70 (C-4-2019)
GTIN	4046356163682
Weight per piece (including packing)	61.04 g
Weight per piece (excluding packing)	59.63 g
Customs tariff number	85363030
Country of origin	DE



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Technical data

Notes

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Control	
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. $R_E = R_A$ according to IEC 60364-4-442/VDE 0100-442 Figure 44D/example a)

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	5 mm
Number of positions	1
Surge protection fault message	optical

Data management status

Insulation characteristics

Overvoltage category	III
Pollution degree	2

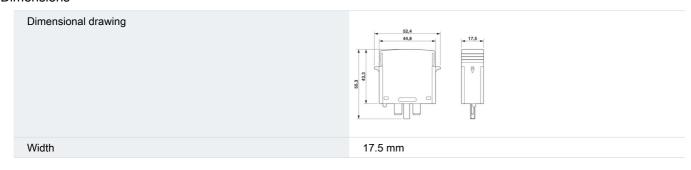
Electrical properties

Nominal frequency f _N 50 Hz ((60 Hz)
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Connection data

Connection method	pluggable
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Dimensions





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Height	52.4 mm
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

Made of protection	L-PE
Mode of protection	
	L-PEN
Direction of action	1L-N/PE
Nominal voltage U _N	400/690 V AC (TN)
	500 V AC (IT)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage U _C	580 V AC
Residual current I _{PE}	≤ 0.25 mA
Standby power consumption $P_{\mathbb{C}}$	≤ 150.00 mVA
Nominal discharge current I _n (8/20) μs	15 kA
Maximum discharge current I _{max} (8/20) μs	30 kA
Short-circuit current rating I _{SCCR}	25 kA
Voltage protection level U _p	≤ 2.5 kV
Residual voltage U _{res}	≤ 2.5 kV (at I _n)
	≤ 2.3 kV (at 10 kA)
	≤ 2.1 kV (at 5 kA)
	≤ 1.9 kV (at 3 kA)
TOV behavior at U _T	690 V AC (5 s / withstand mode)
	762 V AC (120 min / withstand 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)
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)



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Approvals

UL specifications

Maximum continuous operating voltage MCOV (L-N)	580 V AC
Nominal discharge current I _n (L-N)	10 kA
Mode of protection	L-N
Nominal voltage	400 V AC
Power distribution system	Single phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	2310 V
SPD Type	4CA

Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN 60664-1 / EN 61643-11
Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

Mounting

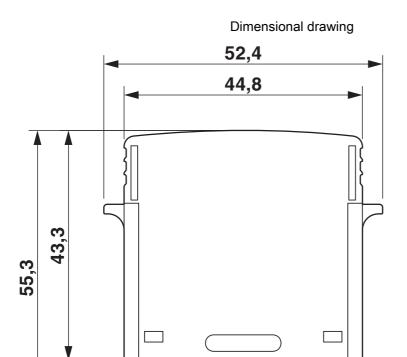
Mounting type	on base element
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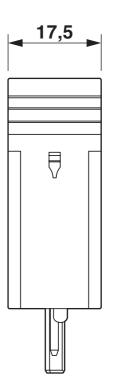


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Drawings





Circuit diagram





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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: AT 2905/M1



EAC

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

CCA

Approval ID: NTR-AT 1947-A



KEMA-KEUR

Approval ID: 71-113273 REV.1



CSA

Approval ID: 13631



ÖVE

Approval ID: 18583-001-17

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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