

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
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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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	
Insulation characteristics		
Overvoltage category	III	

Overvoltage category	III
Pollution degree	2

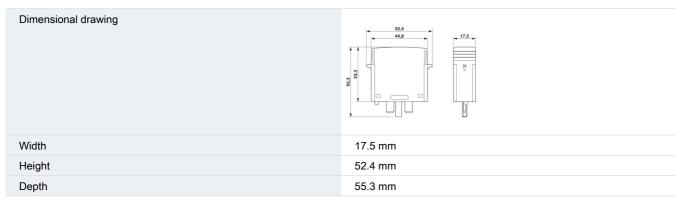
Electrical properties

Nominal frequency f _N	50 Hz (60 Hz)

Connection data

Connection method pluggable

Dimensions





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Horizontal pitch

Horizoniai pitori	I DIV.
laterial 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
otective circuit	
Mode of protection	L-PE
mode of proceedant	L-PEN
Direction of action	1L-N/PE
Nominal voltage U _N	400/690 V AC (TN)
Nonlina Voltage on	500 V AC (IT)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C	580 V AC
Protective conductor current I _{PE}	≤ 0.25 mA
Standby power consumption P _C	≤ 150 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)
res	≤ 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)
nvironmental and real-life conditions	
Ambient conditions	ID20
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)

1 Div.

Approvals



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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

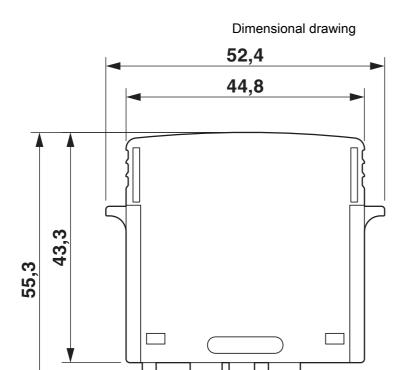
Mounting type	on base element

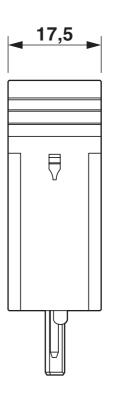


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Drawings





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

CCA

Approval ID: NTR-AT 1947-A



KEMA-KEUR

Approval ID: 71-148002



CSA

Approval ID: 13631



ÖVE

Approval ID: 18583-001-17

UAE-RoHS

Approval ID: 22-09-51251



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Classifications

ECLASS

	ECLASS-13.0	27171292	
	ECLASS-15.0	27171292	
	TINA		
	ΓIM		
	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%
EF3.0 Climate Change	

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