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Especialistas en Automatización

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## Type 2 surge protection plug - VAL-SEC-T2-175-P - 2905355

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Replacement plug for surge arresters from the VALVETRAB SEC product range for L-N and L-PEN paths.

### Why buy this product

- Varistor arrester free of leakage current
- High-performance gas-filled surge arrester for N/PE protection
- Extremely narrow design, just 12 mm per position
- High continuous voltage of 350 V AC for 230/400 V AC networks with high voltage fluctuations
- Pluggable
- Low voltage protection level of 1.5 kV
- Optical, mechanical status indicator
- Plugs can be checked with CHECKMASTER 2

### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 948234

### Technical data

#### Dimensions

Height	46.4 mm
Width	11.7 mm
Depth	59.4 mm
Horizontal pitch	0.6 Div.

#### Ambient conditions

Degree of protection	IP20
	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)	30g (half sinus / 11 ms / 3x ±X, ±Y, ±Z)

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## Technical data

### Ambient conditions

Vibration (operation)	5g (10 ... 500 Hz / 2.5 h / X, Y, Z)
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### General

Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012
IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN
	TT
SPD design	Voltage-limiting type
Mode of protection	L-PEN
	L-N
Mounting type	On base element
Color	light grey RAL 7035
Housing material	PA 6.6-FR 20% GF
	PBT-FR
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Number of positions	1
Surge protection fault message	optical

### Protective circuit

Nominal voltage $U_N$	120 V AC (TN)
	120 V AC (TT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous voltage $U_C$	175 V AC
Nominal discharge current $I_n$ (8/20) $\mu$ s	20 kA
Maximum discharge current $I_{max}$ (8/20) $\mu$ s	40 kA
Short-circuit current rating $I_{SCCR}$	25 kA (in case of 315 A gG backup fuse)
	50 kA (in case of 200 A gG backup fuse)
Voltage protection level $U_p$	$\leq 0.85$ kV
Residual voltage $U_{res}$	$\leq 0.85$ kV (at $I_n$ )
	$\leq 0.75$ kV (at 10 kA)
	$\leq 0.65$ kV (at 5 kA)
	$\leq 0.63$ kV (at 4 kA)
	$\leq 0.57$ kV (at 2 kA)
TOV behavior at $U_T$	240 V AC (5 s / withstand mode)
	240 V AC (120 min / safe failure mode)
Response time $t_A$	$\leq 25$ ns

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## Technical data

### Protective circuit

Max. backup fuse with branch wiring	315 A (gG)
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### Connection data

Connection method	VALVETRAB plug-in system
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### UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV (L-N)	175 V AC
Nom. voltage	125 V AC
Mode of protection	L-N
Power distribution system	1
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	1510 V
Nominal discharge current I <sub>n</sub> (L-N)	20 kA

## Classifications

### eCl@ss

eCl@ss 5.1	27130801
eCl@ss 6.0	27130805
eCl@ss 8.0	27130805
eCl@ss 9.0	27130805

### ETIM

ETIM 5.0	EC000941
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## Approvals

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UL Recognized / KEMA-KEUR / cUL Recognized / CCA / IECCE CB Scheme / GL / EAC / cULus Recognized

#### Ex Approvals

#### Approvals submitted

### Approval details

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## Approvals

UL Recognized

KEMA-KEUR

cUL Recognized

CCA

IECEE CB Scheme

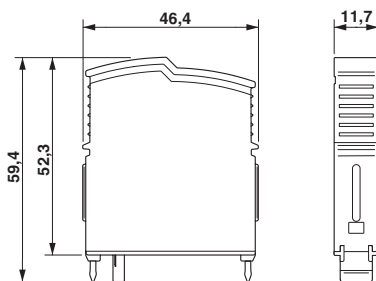
GL

EAC

cULus Recognized

## Drawings

Dimensional drawing



Circuit diagram



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