

## Type 2 surge protection plug - VAL-SEC-T2-440-P - 2909969

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

### Your advantages

- Varistor arrester with a low leakage current
- Extremely narrow design, just 12 mm per position
- High continuous voltage of 440 V AC for 400/690 V AC networks with high voltage fluctuations
- Pluggable
- Optical, mechanical status indicator
- Plugs can be checked with CHECKMASTER 2



### Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4055626409061
Weight per Piece (excluding packing)	63.420 g
Custom tariff number	85363030
Country of origin	Germany
Note	Made to Order (non-returnable)

### 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
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## Technical data

### Ambient conditions

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-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 ... 500 Hz / 2.5 h / X, Y, Z)

### General

IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN
	TT
Mode of protection	L-N
	L-PEN
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	Male
Number of positions	1
Surge protection fault message	optical

### Additional descriptions

Note	Usable in all low-voltage systems between L-N or L-PEN. Only usable in IT Systems between L-PE, if the exposed-conductive-parts (bodies) of the equipment of the low-voltage installation is connected to the earthing arrangement of the transformer substation. (interconnected earthing arrangement of the HV-transformer substation with the bodies of the LV-installation. $R_E = R_A$ accordance to IEC 60364-4-442 / VDE 0100-442 Fig. 44D / Example a)
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### Protective circuit

Nominal voltage $U_N$	400 V AC (TN)
	400 V AC (TT)
	400 V AC (IT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous voltage $U_C$	440 V AC
Standby power consumption $P_C$	≤ 180 mVA
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 (for a backup fuse of up to 315 A gG)

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### Technical data

#### Protective circuit

	50 kA (for a backup fuse of up to 200 A gG)
Voltage protection level $U_p$	$\leq 1.9$ kV
Residual voltage $U_{res}$	$\leq 1.9$ kV (at $I_n$ )
	$\leq 1.65$ kV (at 10 kA)
	$\leq 1.5$ kV (at 5 kA)
	$\leq 1.45$ kV (at 4 kA)
	$\leq 1.35$ kV (at 2 kA)
TOV behavior at $U_T$	581 V AC (5 s / withstand mode)
	762 V AC (120 min / safe failure mode)
Response time $t_A$	$\leq 25$ ns
Max. backup fuse with branch wiring	315 A (gG)

#### Connection data

Connection method	pluggable
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#### Standards and Regulations

Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

### Drawings

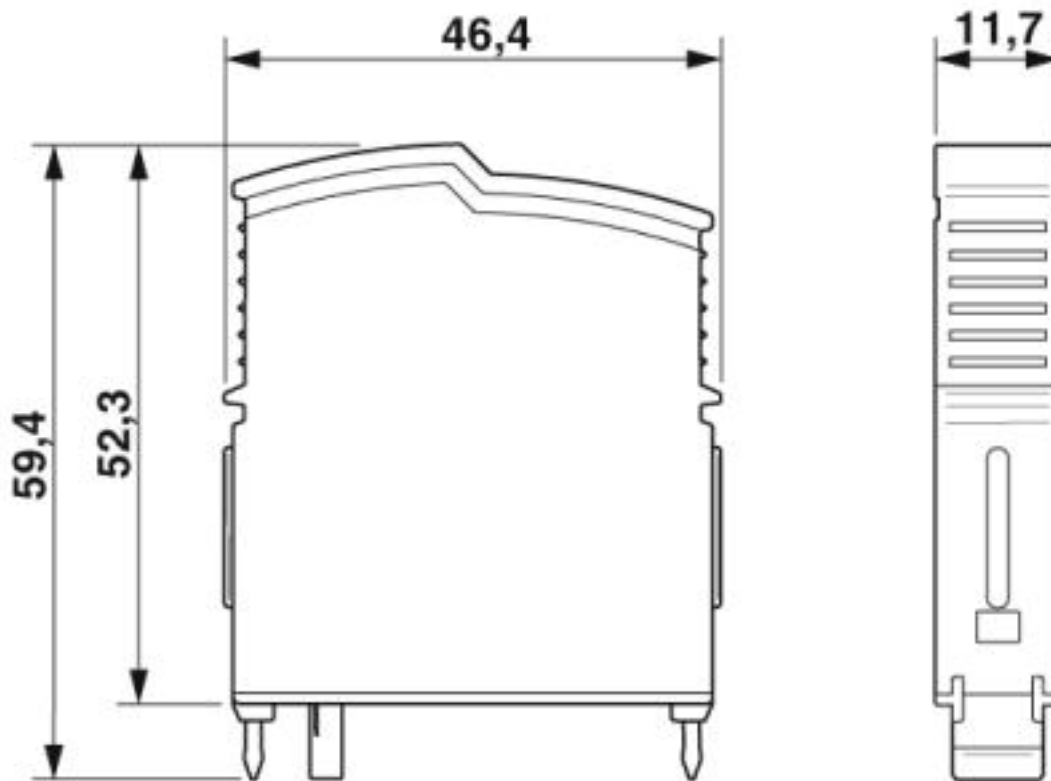
## Type 2 surge protection plug - VAL-SEC-T2-440-P - 2909969

Circuit diagram



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Dimensional drawing



## Classifications

eCl@ss

eCl@ss 10.0.1	27130890
eCl@ss 6.0	27130800
eCl@ss 7.0	27130805
eCl@ss 8.0	27130890
eCl@ss 9.0	27130890

ETIM

ETIM 5.0	EC002496
ETIM 6.0	EC000941
ETIM 7.0	EC000941

## Approvals

Approvals

Approvals

EAC

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## Approvals

Ex Approvals

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### Approval details

EAC		RU C- DE.A*30.B01561
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## Accessories

### Accessories

#### Device marking

Label - EML (20XE)R - 0803452



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: adhesive, lettering field size: continuous x 20 mm

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Label - EML (20XE)R YE - 0803453



Label, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: adhesive, lettering field size: continuous x 20 mm

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### Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm