

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 with a low leakage current
- ✓ Extremely narrow design, just 12 mm per position
- ✓ High continuous voltage of 175 V AC for 120 V AC networks with high voltage fluctuations
- ✓ Pluggable
- ✓ Low voltage protection level of 0.85 kV
- ✓ Optical, mechanical status indicator
- ✓ Plugs can be checked with CHECKMASTER 2



Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 948234
GTIN	4046356948234
Custom tariff number	85369010
Country of origin	Germany

Technical data

Dimensions

Height	46.4 mm
Width	11.7 mm
Depth	59.4 mm

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Technical data

Dimensions

Horizontal pitch	0.6 Div.
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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 (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g (half sinus / 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
Design	Male
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) μ s	20 kA
Maximum discharge current I_{max} (8/20) μ 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	≤ 0.85 kV

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Protective circuit

Residual voltage U_{res}	≤ 0.85 kV (at I_n)
	≤ 0.75 kV (at 10 kA)
	≤ 0.65 kV (at 5 kA)
	≤ 0.63 kV (at 4 kA)
	≤ 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	≤ 25 ns
Max. backup fuse with branch wiring	315 A (gG)

UL specifications

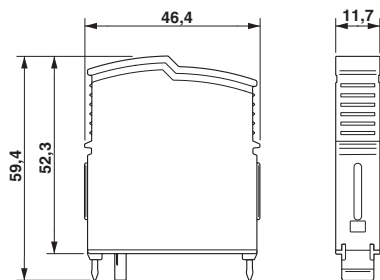
SPD Type	4CA
Maximum continuous operating voltage MCOV (L-N)	175 V AC
Nom. voltage	125 V AC
Mode of protection	L-N
Power distribution system	1
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	1510 V
Nominal discharge current I_n (L-N)	20 kA

Standards and Regulations

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

Drawings

Dimensional drawing



Circuit diagram



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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
ETIM 6.0	EC000941

UNSPSC

UNSPSC 13.2	39121620
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Approvals

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

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
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KEMA-KEUR		http://www.dekra-certification.com	2196453.01
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
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CCA	NTR-NL 7347
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Approvals

IECEE CB Scheme		http://www.iecee.org/	NL-34356
GL		http://exchange.dnv.com/tari/	13947-15 HH
EAC			RU C- DE.A*30.B01561
cULus Recognized		http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm	

Accessories

Accessories

Device marking

Label - EML (20XE)R - 0803452



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, Mounting type: Adhesive, Lettering field: continuous x 20 mm

Label - EML (20XE)R YE - 0803453



Label, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, Mounting type: Adhesive, Lettering field: continuous x 20 mm

Marker pen

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Accessories

Marker pen - B-STIFT - 1051993



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