VAL-SEC-T2-N/PE-175-P - Type 2 surge protection plug

2905356

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Replacement plug for surge arresters from the VALVETRAB SEC product range for the N-PE path.

Your advantages

- Surge protection family for universal use with optimum energy coordination from the lightning current arrester to the device protection
- Easy to maintain due to consistently pluggable protection modules
- Excellent level of information provided by mechanical/visual status indicator and remote indication contact
- More space in the control cabinet due to the narrow overall width of just 12 mm per position and use without separate backup fuse up to 315 A gG

Commercial data

Item number	2905356
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL1351
GTIN	4046356948227
Weight per piece (including packing)	50.8 g
Weight per piece (excluding packing)	49.3 g
Customs tariff number	85363090
Country of origin	DE

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Technical data

Product properties

Product type	Replacement plug
Product family	SEC Family
IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN
	TT
Type	Male
Number of positions	1
Surge protection fault message	optical

Insulation characteristics

Overvoltage category	III
Pollution degree	2

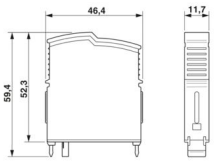
Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)

Connection data

Connection method	pluggable

Dimensions

Dimensional drawing	
Width	11.7 mm
Height	46.4 mm
Depth	59.4 mm
Horizontal pitch	0.6 HP

Material specifications

Color	light gray (RAL 7035)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA6.6-FR 20% GF
	PBT-FR
Material group	I
Housing material	PA 6.6-FR 20 % GF

	PBT-FR

Protective circuit

Mode of protection	N-PE
Direction of action	N-PE
Nominal voltage U_N	120 V AC (TN - only N-PE)
	120 V AC (TT - only N-PE)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C	150 V AC
Protective conductor current I_{PE}	≤ 1 µA
Nominal discharge current I_n (8/20) µs	20 kA
Maximum discharge current I_{max} (8/20) µs	40 kA
Follow current interrupt rating I_{fi}	100 A (150 V AC)
Voltage protection level U_p	≤ 0.95 kV
Residual voltage U_{res}	≤ 0.4 kV (at I_n)
	≤ 0.4 kV (at 10 kA)
	≤ 0.4 kV (at 5 kA)
	≤ 0.4 kV (at 4 kA)
	≤ 0.4 kV (at 2 kA)
Front-of-wave sparkover voltage at 6 kV (1.2/50) µs	≤ 0.95 kV
TOV behavior at U_T	1200 V AC (200 ms / withstand mode)
Response time t_A	≤ 100 ns

Additional technical data

TOV behavior at U_T (N-PE)	600 V AC (30 A / 1 s / withstand mode)

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)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 ... 500 Hz / 2.5 h / X, Y, Z)

Approvals

UL specifications

Maximum continuous operating voltage MCOV (N-G)	150 V AC
Nominal discharge current I_n (N-G)	20 kA
Mode of protection	N-G
Power distribution system	Single phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (N-G)	560 V

Follow current (L-G)	200 A (150 V AC)
SPD Type	4CA

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011

EN 61643-11

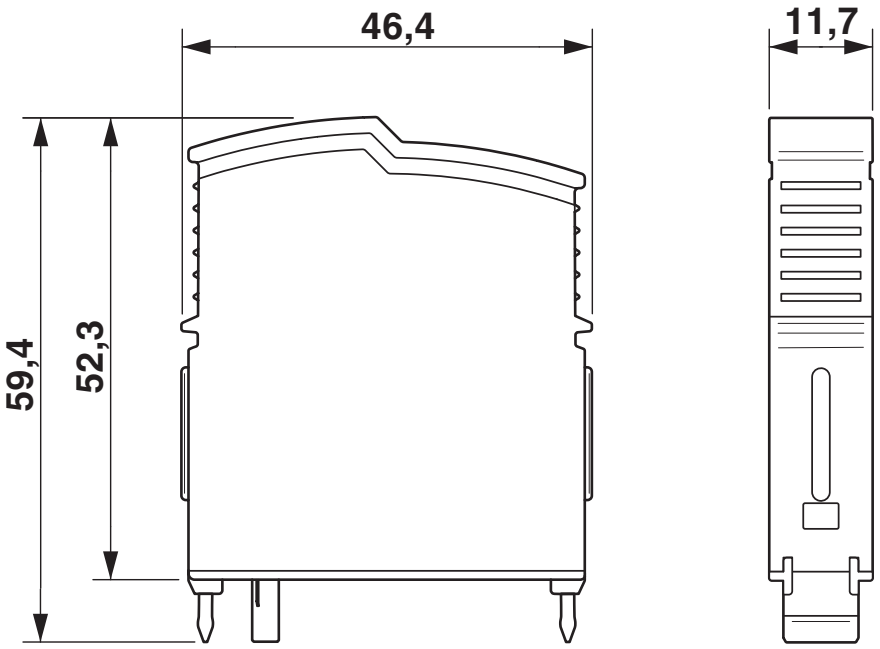
Standards/specifications	EN 61643-11
Note	2012

Mounting

Mounting type	on base element

Drawings

Dimensional drawing



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2905356

cUL Recognized
Approval ID: FILE E 330181

UL Recognized
Approval ID: FILE E 330181

IECEE CB Scheme
Approval ID: NL-34356

CCA
Approval ID: NTR-NL 7347

KEMA-KEUR
Approval ID: 2196453.01

DNV GL
Approval ID: TAE000023D

UAE-RoHS
Approval ID: 23-10-88707

Classifications

ECLASS

ECLASS-13.0	27171292
ECLASS-15.0	27171292

ETIM

ETIM 10.0	EC002496

UNSPSC

UNSPSC 21.0	39121600

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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