

## Type 2 surge protection plug - VAL-CP-N/PE-175-ST - 2859709


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Replacement plug for VAL-CP surge arrester with N-PE spark gap.



### Key Commercial Data

Packing unit	10 pc
Minimum order quantity	10 pc
GTIN	 4 046356 045513
GTIN	4046356045513

### Technical data

#### Dimensions

Height	46.4 mm
Width	11.7 mm
Depth	56.4 mm

#### 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-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

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## Technical data

### General

Mode of protection	N-PE
Mounting type	on base element
Color	gray/blue
Housing material	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 - only N-PE)
	120 V AC (TT - only N-PE)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous voltage $U_C$ (N-PE)	150 V AC
Residual current $I_{PE}$	$\leq 1 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$ (N-PE)	20 kA
Maximum discharge current $I_{max}$ (8/20) $\mu s$ (N-PE)	40 kA
Follow current interrupt rating $I_{fi}$ (N-PE)	100 A (150 V AC)
Voltage protection level $U_p$ (N-PE)	$\leq 0.95$ kV
Residual voltage $U_{res}$ (N-PE)	$\leq 0.4$ kV (at $I_n$ )
	$\leq 0.4$ kV (at 10 kA)
	$\leq 0.4$ kV (at 5 kA)
	$\leq 0.4$ kV (at 4 kA)
	$\leq 0.4$ kV (at 2 kA)
TOV behavior at $U_T$ (N-PE)	1200 V AC (200 ms / withstand mode)
Response time $t_A$ (N-PE)	$\leq 100$ ns

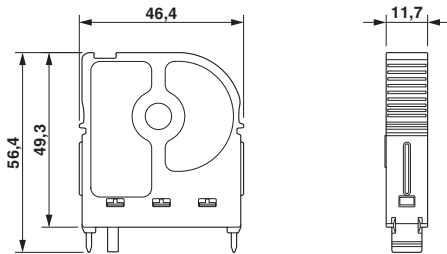
### UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV (N-G)	150 V AC
Mode of protection	N-G
Power distribution system	Single phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (N-G)	560 V
Nominal discharge current $I_n$ (N-G)	20 kA

## Drawings

# Type 2 surge protection plug - VAL-CP-N/PE-175-ST - 2859709

Dimensional drawing



Circuit diagram



## Approvals

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#### Approvals

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

#### Ex Approvals

### Approval details

GL		<a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>	94387-10 HH
CCA			NTR-NL 7221
UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 330181
KEMA-KEUR		<a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a>	2161502.01
cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 330181
IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	NL-29957

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### Approvals



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