

# VAL-CP-N/PE-350-ST-GY - Type 2 surge protection plug



2882734

<https://www.phoenixcontact.com/us/products/2882734>

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



## Commercial data

Item number	2882734
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	CL1314
GTIN	4046356337441
Weight per piece (including packing)	41.4 g
Weight per piece (excluding packing)	40.9 g
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	DIN rail module, two-section, divisible
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)
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### Connection data

Connection method	pluggable
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### Dimensions

Width	11.7 mm
Height	44.8 mm
Depth	56.4 mm
Horizontal pitch	0.6 Div.

### Material specifications

Color	light gray (RAL 7035) black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PBT-FR
Material group	I
Housing material	PBT-FR

### Protective circuit

Mode of protection	N-PE
Direction of action	N-PE
Nominal voltage $U_N$	240 V AC (TN - only N-PE) 240 V AC (TT - only N-PE)

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Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$	264 V AC
Protective conductor current $I_{PE}$	$\leq 1 \mu\text{A}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$	20 kA
Maximum discharge current $I_{max}$ (8/20) $\mu\text{s}$	30 kA
Follow current interrupt rating $I_{fi}$	100 A (264 V AC)
Voltage protection level $U_p$	$\leq 1.5 \text{ kV}$
Residual voltage $U_{res}$	$\leq 0.5 \text{ kV}$ (at $I_n$ )
	$\leq 0.5 \text{ kV}$ (at 10 kA)
	$\leq 0.5 \text{ kV}$ (at 5 kA)
	$\leq 0.5 \text{ kV}$ (at 4 kA)
	$\leq 0.5 \text{ kV}$ (at 2 kA)
Front-of-wave sparkover voltage at 6 kV (1.2/50) $\mu\text{s}$	$\leq 1.5 \text{ kV}$
TOV behavior at $U_T$	1200 V AC (200 ms / withstand mode)
Response time $t_A$	$\leq 100 \text{ ns}$

## 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	$\leq 2000 \text{ m}$ (amsl)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g (Half-sine / 11 ms / 3x $\pm X$ , $\pm Y$ , $\pm Z$ )
Vibration (operation)	5g (10 ... 500 Hz / 2.5 h / X, Y, Z)

## Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

## Mounting

Mounting type	on base element
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## Drawings

### Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27171292
ECLASS-15.0	27171292

### ETIM

ETIM 10.0	EC002496
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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