

# 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             |
| Catalog page                         | Page 74 (C-4-2019) |
| 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) |
|-------------------------|---------------|

### Connection data

|                   |           |
|-------------------|-----------|
| Connection method | pluggable |
|-------------------|-----------|

### Dimensions

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

### Material specifications

|                                        |                       |
|----------------------------------------|-----------------------|
| Color                                  | light grey (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 voltage $U_C$                         | 264 V AC                            |
| Residual current $I_{PE}$                                | $\leq 1 \mu A$                      |
| Nominal discharge current $I_n$ (8/20) $\mu s$           | 20 kA                               |
| Maximum discharge current $I_{max}$ (8/20) $\mu s$       | 30 kA                               |
| Follow current interrupt rating $I_{fi}$                 | 100 A (264 V AC)                    |
| Voltage protection level $U_p$                           | $\leq 1.5$ kV                       |
| Residual voltage $U_{res}$                               | $\leq 0.5$ kV (at $I_n$ )           |
|                                                          | $\leq 0.5$ kV (at 10 kA)            |
|                                                          | $\leq 0.5$ kV (at 5 kA)             |
|                                                          | $\leq 0.5$ kV (at 4 kA)             |
|                                                          | $\leq 0.5$ kV (at 2 kA)             |
| Front of wave sparkover voltage at 6 kV (1.2/50) $\mu s$ | $\leq 1.5$ kV                       |
| TOV behavior at $U_T$                                    | 1200 V AC (200 ms / withstand mode) |
| Response time $t_A$                                      | $\leq 100$ 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                                | $\leq 2000$ 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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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2882734>



**EAC**

Approval ID: RU C-DE.\*09.B.00169

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27130890 |
| ECLASS-13.0 | 27171292 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002496 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121600 |
|-------------|----------|

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## 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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## Accessories

### ZBN 18,LGS:ERDE - Marker for terminal blocks

2749589

<https://www.phoenixcontact.com/us/products/2749589>



Marker for terminal blocks, Strip, white, labeled, horizontal: Grounding symbol, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

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### ZBN 18,LGS:L1-N,ERDE - Marker for terminal blocks

2749576

<https://www.phoenixcontact.com/us/products/2749576>



Marker for terminal blocks, Strip, white, labeled, horizontal: L1, L2, L3, N, GND, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5



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## ZBN 18:UNBEDRUCKT - Zack marker strip

2809128

<https://www.phoenixcontact.com/us/products/2809128>



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

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## ZBN 18 CUS - Zack marker strip

0825059

<https://www.phoenixcontact.com/us/products/0825059>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

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## B-STIFT - Marker pen

1051993

<https://www.phoenixcontact.com/us/products/1051993>



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

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