

FLT-SEC-P-T1-350/25-P - Type 1 surge protection plug



2905422  
<https://www.phoenixcontact.com/us/products/2905422>

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Replacement plug for lightning current arresters from the FLASHTRAB SEC PLUS 350 product range, for L-N and L-PEN paths.

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
- Optimum protective effect in the event of high-energy lightning currents, thanks to spark gap technology with low residual voltage characteristic
- Low voltage protection level for direct protection of end devices in the main distribution area

Commercial data

|                                      |                    |
|--------------------------------------|--------------------|
| Item number                          | 2905422            |
| Packing unit                         | 1 pc               |
| Minimum order quantity               | 1 pc               |
| Sales key                            | CL01               |
| Product key                          | CL1171             |
| Catalog page                         | Page 37 (C-4-2019) |
| GTIN                                 | 4046356950107      |
| Weight per piece (including packing) | 254 g              |
| Weight per piece (excluding packing) | 262.5 g            |
| Customs tariff number                | 85363010           |
| Country of origin                    | DE                 |

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## Technical data

### Notes

|         |                                                                               |
|---------|-------------------------------------------------------------------------------|
| General |                                                                               |
| Note    | Max. single impulse: 100 kA (8/20 µs)<br>SPD according to AS/NZS 1768 Cat. C3 |

### Product properties

|                                |                  |
|--------------------------------|------------------|
| Product type                   | Replacement plug |
| Product family                 | SEC Family       |
| IEC test classification        | I / II           |
|                                | I                |
|                                | T1 / T2          |
|                                | T1               |
| EN type                        | T1 / T2          |
|                                | T1               |
| 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   |

|                        |    |
|------------------------|----|
| Data management status |    |
| Article revision       | 07 |

### Electrical properties

|                         |               |
|-------------------------|---------------|
| Nominal frequency $f_N$ | 50 Hz (60 Hz) |
|-------------------------|---------------|

### Connection data

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

### Dimensions

|                     |         |
|---------------------|---------|
| Dimensional drawing |         |
| Width               | 35.5 mm |
| Height              | 46.6 mm |

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|                  |         |
|------------------|---------|
| Depth            | 59.4 mm |
| Horizontal pitch | 2 Div.  |

## 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<br>PBT-FR   |
| Material group                         | I                           |
| Housing material                       | PA 6.6-FR 20 % GF<br>PBT-FR |

## Protective circuit

|                                                                  |                                                                        |
|------------------------------------------------------------------|------------------------------------------------------------------------|
| Mode of protection                                               | L-N<br>L-PEN                                                           |
| Direction of action                                              | L-N / L-PEN                                                            |
| Nominal voltage $U_N$                                            | 240 V AC (TN)<br>240 V AC (TT)                                         |
| Nominal frequency $f_N$                                          | 50 Hz (60 Hz)                                                          |
| Maximum continuous voltage $U_C$                                 | 350 V AC                                                               |
| Nominal discharge current $I_n$ (8/20) $\mu$ s                   | 25 kA                                                                  |
| Maximum discharge current $I_{max}$ (8/20) $\mu$ s               | 50 kA                                                                  |
| Impulse discharge current (10/350) $\mu$ s, charge               | 12.5 As                                                                |
| Impulse discharge current (10/350) $\mu$ s, specific energy      | 160 kJ/ $\Omega$                                                       |
| Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$ | 25 kA                                                                  |
| Follow current interrupt rating $I_{fi}$                         | 50 kA                                                                  |
| Short-circuit current rating $I_{SCCR}$                          | 50 kA                                                                  |
| Voltage protection level $U_p$                                   | $\leq 1.5$ kV                                                          |
| Residual voltage $U_{res}$                                       | $\leq 1.5$ kV (at $I_n$ )                                              |
| Front of wave sparkover voltage at 6 kV (1.2/50) $\mu$ s         | $\leq 1.5$ kV                                                          |
| TOV behavior at $U_T$                                            | 415 V AC (5 s / withstand mode)<br>457 V AC (120 min / withstand mode) |
| Response time $t_A$                                              | $\leq 100$ ns                                                          |
| Max. backup fuse with branch wiring                              | 315 A (gG)                                                             |

## Additional technical data

|                                          |                   |
|------------------------------------------|-------------------|
| Short-circuit current rating $I_{SCCR}$  | 100 kA (264 V AC) |
| Follow current interrupt rating $I_{fi}$ | 100 kA (264 V AC) |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Degree of protection            | IP20             |
| Ambient temperature (operation) | -40 °C ... 80 °C |

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|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| 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 (5 - 500 Hz/2.5 h/X, Y, Z)           |

## Approvals

### UL specifications

|                                           |              |
|-------------------------------------------|--------------|
| Maximum continuous operating voltage MCOV | 350 V AC     |
| Short-circuit current rating (SCCR)       | 50 kA        |
| Voltage protection rating VPR             | 1500 V       |
| Nominal discharge current $I_n$           | 20 kA        |
| Mode of protection                        | L-N          |
|                                           | L-G          |
| Nominal voltage                           | 240 V AC     |
| Power distribution system                 | Single phase |
| Nominal frequency                         | 50/60 Hz     |
| SPD Type                                  | 1CA          |

## 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 |
|---------------|-----------------|

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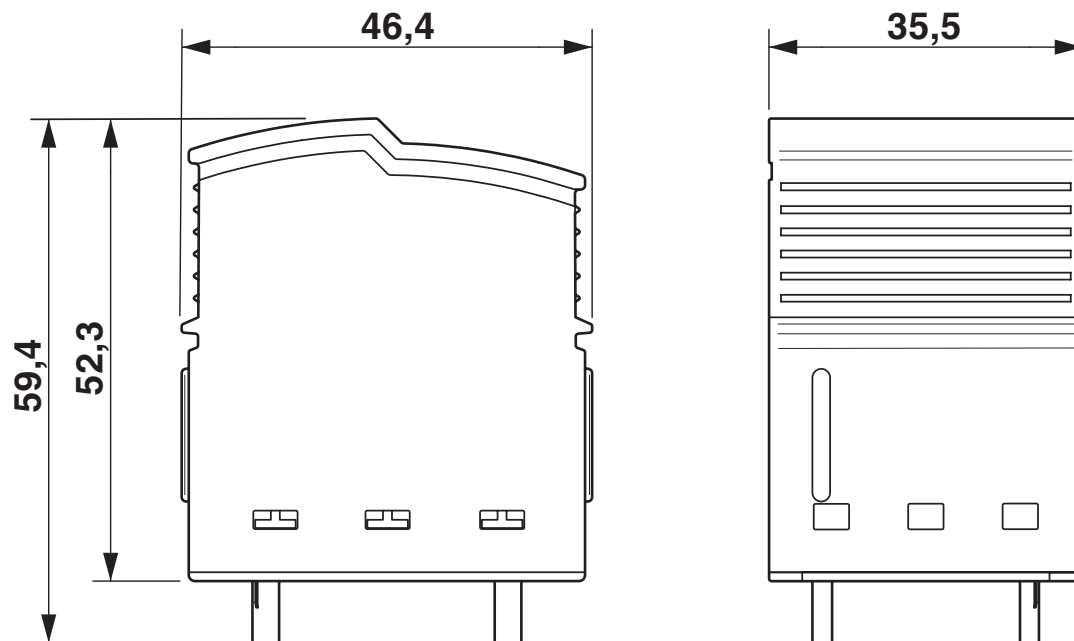


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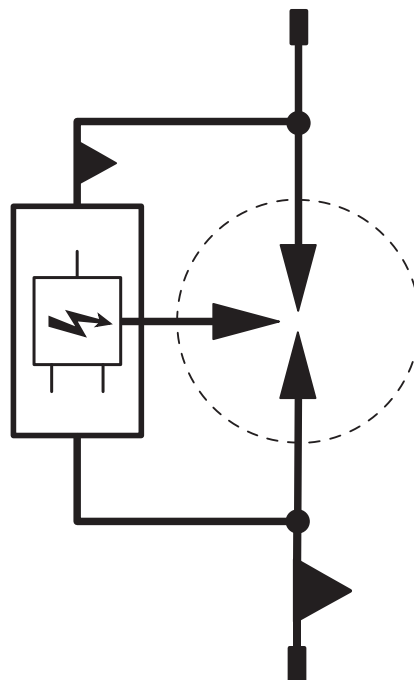
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## Drawings

Dimensional drawing



Circuit diagram



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## Approvals

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**cUL Recognized**  
Approval ID: FILE E 330181



**UL Recognized**  
Approval ID: FILE E 330181



**IECEE CB Scheme**  
Approval ID: NL-56588



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

**CCA**

Approval ID: NTR-NL 7726



**KEMA-KEUR**  
Approval ID: 71-106982



**DNV GL**  
Approval ID: TAE000040S

**UAE-RoHS**

Approval ID: 23-10-88709

**cULus Recognized**

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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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