

## Type 1 surge protection plug - FLT-SEC-P-T1-350/25-P - 2905422

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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

### Your advantages

- ✓ Spark gap has no line follow current
- ✓ Free of leakage current, suitable for use in the pre-meter area
- ✓ High continuous voltage of 350 V AC for 230/400 V AC networks with high voltage fluctuations
- ✓ Pluggable
- ✓ Low voltage protection level of 1.5 kV
- ✓ Optical, mechanical status indicator
- ✓ Plugs can be checked with CHECKMASTER 2



### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 046356 950107 |
| GTIN         | 4046356950107                                                                                           |

### Technical data

#### Dimensions

|                  |         |
|------------------|---------|
| Height           | 46.6 mm |
| Width            | 35.5 mm |
| Depth            | 59.4 mm |
| Horizontal pitch | 2 Div.  |

#### 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)) |

# Type 1 surge protection plug - FLT-SEC-P-T1-350/25-P - 2905422

## Technical data

### Ambient conditions

|                                  |                                         |
|----------------------------------|-----------------------------------------|
| 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)           |

### General

|                                        |                     |
|----------------------------------------|---------------------|
| IEC test classification                | I / II              |
|                                        | I                   |
|                                        | T1 / T2             |
|                                        | T1                  |
| EN type                                | T1 / T2             |
|                                        | T1                  |
| IEC power supply system                | TT                  |
| Mode of protection                     | L-N                 |
|                                        | L-PEN               |
| Mounting type                          | on base element     |
| Color                                  | light grey RAL 7035 |
| Housing material                       | PA 6.6-FR 20 % GF   |
|                                        | PBT-FR              |
| Degree of pollution                    | 2                   |
| Flammability rating according to UL 94 | V-0                 |
| Type                                   | Male                |
| Number of positions                    | 1                   |
| Surge protection fault message         | optical             |

### Protective circuit

|                                                                  |                                     |
|------------------------------------------------------------------|-------------------------------------|
| Nominal voltage $U_N$                                            | 240 V AC (TN)                       |
|                                                                  | 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)     |
|                                                                  | 457 V AC (120 min / withstand mode) |

# Type 1 surge protection plug - FLT-SEC-P-T1-350/25-P - 2905422

## Technical data

### Protective circuit

|                                     |               |
|-------------------------------------|---------------|
| Response time $t_A$                 | $\leq 100$ ns |
| Max. backup fuse with branch wiring | 315 A (gG)    |

### Additional technical data

|                                                    |                           |
|----------------------------------------------------|---------------------------|
| Follow current interrupt rating $I_{fi}$           | 100 kA (264 V AC)         |
| Short-circuit current rating $I_{SCCR}$            | 100 kA (264 V AC)         |
| Maximum discharge current $I_{max}$ (8/20) $\mu$ s | 100 kA (AS/NZS 1768:2007) |

### Connection data

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

### UL specifications

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

### Standards and Regulations

|                       |                   |
|-----------------------|-------------------|
| Standards/regulations | IEC 61643-11 2011 |
|                       | EN 61643-11 2012  |

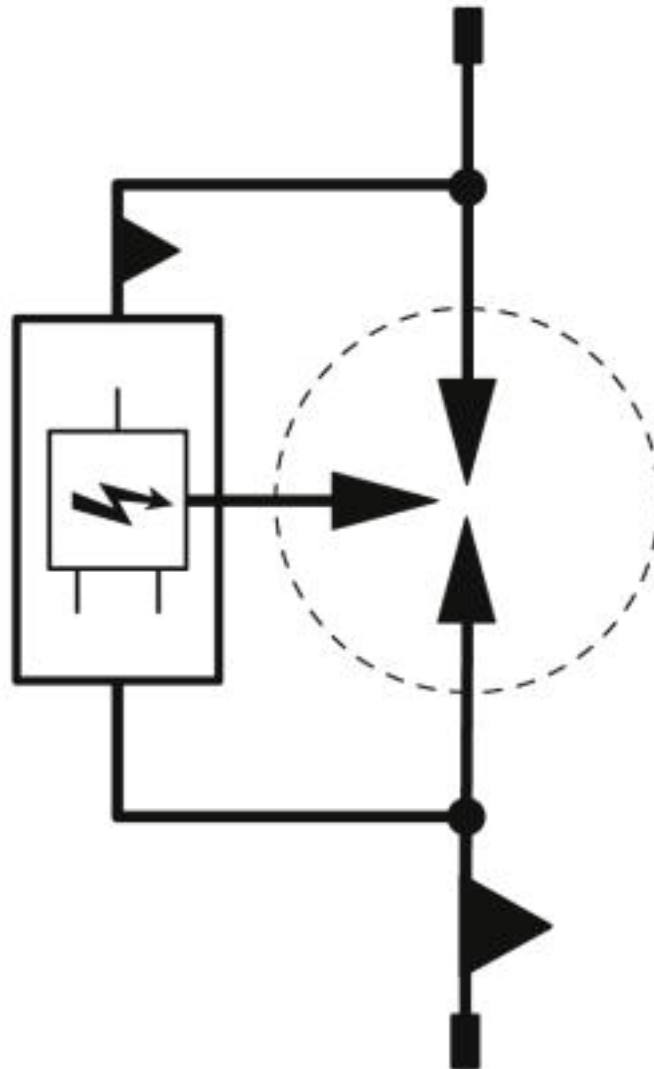
### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

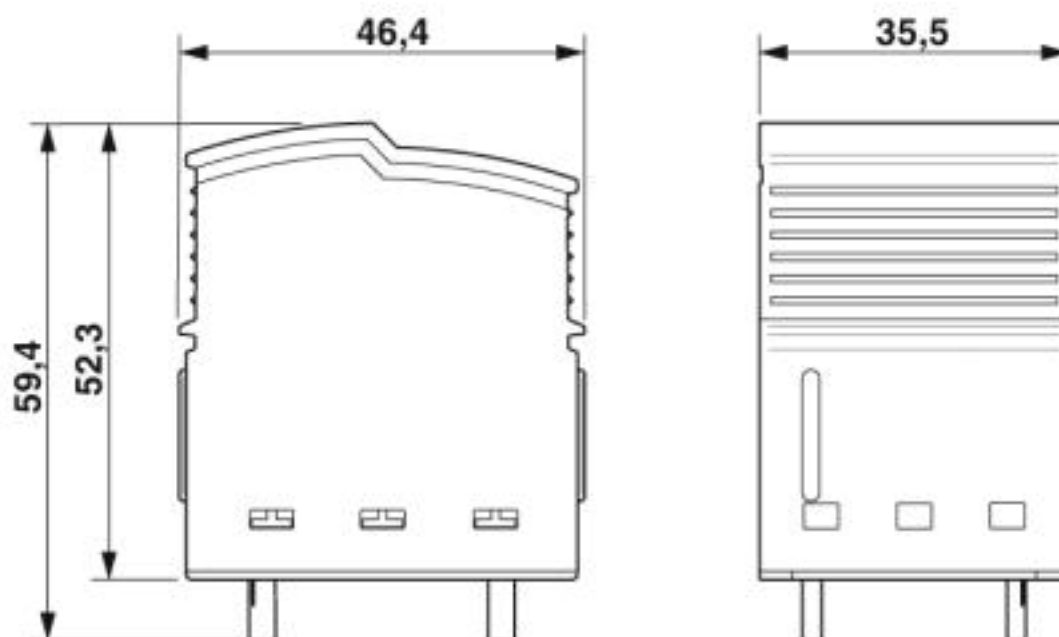
## Type 1 surge protection plug - FLT-SEC-P-T1-350/25-P - 2905422

Circuit diagram



## Type 1 surge protection plug - FLT-SEC-P-T1-350/25-P - 2905422

Dimensional drawing



### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27130890 |
| eCl@ss 4.0    | 27130800 |
| eCl@ss 4.1    | 27130800 |
| eCl@ss 5.0    | 27130800 |
| eCl@ss 5.1    | 27130800 |
| eCl@ss 6.0    | 27130800 |
| eCl@ss 7.0    | 27130802 |
| eCl@ss 8.0    | 27130890 |
| eCl@ss 9.0    | 27130890 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC000381 |
| ETIM 5.0 | EC002496 |
| ETIM 6.0 | EC000381 |
| ETIM 7.0 | EC000381 |

#### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 13.2 | 39121620 |
| UNSPSC 18.0 | 39121620 |
| UNSPSC 19.0 | 39121620 |
| UNSPSC 20.0 | 39121620 |
| UNSPSC 21.0 | 39121620 |

## Type 1 surge protection plug - FLT-SEC-P-T1-350/25-P - 2905422

### Approvals

#### Approvals

---

#### Approvals

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

---

#### Ex Approvals

---

#### Approval details

|                  |                                                                                     |                                                                                                                                                       |                         |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| GL               |    | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>                                                                     | 13946-15 HH             |
| CCA              |                                                                                     |                                                                                                                                                       | NTR-NL 7726             |
| 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>                                                                   | 71-106982               |
| 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-56588                |
| EAC              |  |                                                                                                                                                       | RU C-<br>DE.A*30.B01561 |
| cULus Recognized |  |                                                                                                                                                       |                         |

## Type 1 surge protection plug - FLT-SEC-P-T1-350/25-P - 2905422

### Accessories

#### Accessories

#### Device marking

Label - EML (20XE)R - 0803452



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: adhesive, lettering field size: continuous x 20 mm

---

Label - EML (20XE)R YE - 0803453



Label, Roll, yellow, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: adhesive, lettering field size: continuous x 20 mm

---

#### Marker pen

Marker pen - B-STIFT - 1051993



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

---

Phoenix Contact 2020 © - all rights reserved  
<http://www.phoenixcontact.com>

**PHOENIX CONTACT GmbH & Co. KG**  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>