

# FLT-SEC-P-T1-440/35-P - Type 1 surge protection plug



2905989

<https://www.phoenixcontact.com/us/products/2905989>

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Replacement plug free of leakage current for lightning arresters from the FLASHTRAB SEC PLUS 440 product range, for L-N and L-PE 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
- Maximum performance in a minimum amount of space: compact design with high discharge capacity at high nominal voltage

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2905989       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | CL01          |
| Product key                          | CL1172        |
| GTIN                                 | 4055626013282 |
| Weight per piece (including packing) | 267.3 g       |
| Weight per piece (excluding packing) | 241.75 g      |
| Customs tariff number                | 85363030      |
| Country of origin                    | TR            |

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## Technical data

### Product properties

|                                |                   |
|--------------------------------|-------------------|
| Product type                   | Replacement plug  |
| Product family                 | SEC Family        |
| IEC test classification        | I / II<br>T1 / T2 |
| EN type                        | T1 / T2           |
| IEC power supply system        | TN<br>IT          |
| Type                           | Male              |
| Number of positions            | 1                 |
| Surge protection fault message | optical           |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Pollution degree     | 2   |

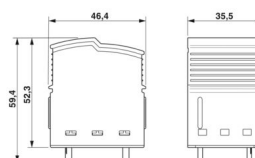
### Electrical properties

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

### Connection data

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

### Dimensions

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

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|  |        |
|--|--------|
|  | PBT-FR |
|--|--------|

## Protective circuit

|  |  |
|--|--|
| Mode of protection   | L-N                                    |
|  | L-PE                                   |
|  | L-PEN                                  |
|  | N-PE (4+0)                             |
| Direction of action  | L-N / L-PEN                            |
| Nominal voltage $U_N$  | 400 V AC (TN)                          |
|  | 400 V AC (IT)                          |
| Nominal frequency $f_N$  | 50 Hz (60 Hz)                          |
| Maximum continuous operating voltage $U_C$                       | 440 V AC                               |
| Protective conductor current $I_{PE}$                            | < 5 $\mu$ A                            |
| Nominal discharge current $I_n$ (8/20) $\mu$ s                   | 35 kA                                  |
| Maximum discharge current $I_{max}$ (8/20) $\mu$ s               | 50 kA                                  |
| Impulse discharge current (10/350) $\mu$ s, charge               | 17.5 As                                |
| Impulse discharge current (10/350) $\mu$ s, specific energy      | 310 kJ/ $\Omega$                       |
| Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$ | 35 kA                                  |
| Follow current interrupt rating $I_{fi}$                         | 50 kA                                  |
| Short-circuit current rating $I_{SCCR}$                          | 50 kA                                  |
| Voltage protection level $U_p$                                   | $\leq$ 2.5 kV                          |
| Residual voltage $U_{res}$                                       | $\leq$ 2.5 kV (at $I_n$ )              |
| TOV behavior at $U_T$  | 580 V AC (5 s / withstand mode)        |
|  | 800 V AC (120 min / withstand mode)    |
|  | 1640 V AC (200 ms / safe failure mode) |
| Response time $t_A$  | $\leq$ 100 ns                          |
| Max. backup fuse with branch wiring                              | 400 A (gG)                             |

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

## Approvals

### UL specifications

|   |          |
|---|----------|
| Maximum continuous operating voltage MCOV | 440 V AC |
| Short-circuit current rating (SCCR)       | 25 kA    |
| Voltage protection rating VPR             | 1800 V   |

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|                                 |              |
|---------------------------------|--------------|
| Nominal discharge current $I_n$ | 20 kA        |
| Mode of protection              | L-N          |
|                                 | L-G          |
| Nominal voltage                 | 400 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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## Drawings

Dimensional drawing



Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2905989>



**cUL Recognized**

Approval ID: FILE E 330181



**UL Recognized**

Approval ID: FILE E 330181



**IECEE CB Scheme**

Approval ID: NL-40634

**CCA**

Approval ID: NTR-NL 7480



**KEMA-KEUR**

Approval ID: 71-165054

**UAE-RoHS**

Approval ID: 23-10-88709

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27171292 |
| ECLASS-15.0 | 27171292 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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.) | N,N-dimethylacetamide(CAS: 127-19-5) |
| SCIP                                | 04193ae2-42b9-458e-873a-792597e17eb6 |

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