

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 free of leakage current for lightning 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 |
| GTIN | 4046356950107 |
| Weight per piece (including packing) | 254 g |
| Weight per piece (excluding packing) | 262.5 g |
| Customs tariff number | 85363010 |
| Country of origin | TR |

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Technical data

Notes

General

| | |
|------|--|
| Note | Max. single impulse: 100 kA (8/20 μ s) |
| | 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 |

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. |

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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 PBT-FR |
| Material group | I |
| Housing material | PA 6.6-FR 20 % GF PBT-FR |

Protective circuit

| | |
|--|--|
| Mode of protection | L-N L-PEN |
| Direction of action | L-N / L-PEN |
| Nominal voltage U_N | 240 V AC (TN) 240 V AC (TT) |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous operating voltage U_C | 350 V AC |
| Nominal discharge current I_n (8/20) μ s | 25 kA |
| Maximum discharge current I_{max} (8/20) μ s | 50 kA |
| Impulse discharge current (10/350) μ s, charge | 12.5 As |
| Impulse discharge current (10/350) μ s, specific energy | 160 kJ/ Ω |
| Impulse discharge current (10/350) μ 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 | ≤ 1.5 kV |
| Residual voltage U_{res} | ≤ 1.5 kV (at I_n) |
| Front-of-wave sparkover voltage at 6 kV (1.2/50) μ s | ≤ 1.5 kV |
| TOV behavior at U_T | 415 V AC (5 s / withstand mode) 457 V AC (120 min / withstand mode) |
| Response time t_A | ≤ 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 |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Altitude | ≤ 2000 m (amsl) |

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| | |
|----------------------------------|---|
| 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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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

CCA

Approval ID: NTR-NL 7726



KEMA-KEUR

Approval ID: 71-165048

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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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