

VAL-SEC-T2-N/PE-175-P - Type 2 surge protection plug



2905356

<https://www.phoenixcontact.com/us/products/2905356>

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Replacement plug for surge arresters from the VALVETRAB SEC product range for the N-PE path.

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
- More space in the control cabinet due to the narrow overall width of just 12 mm per position and use without separate backup fuse up to 315 A gG

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2905356 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CL01 |
| Product key | CL1351 |
| GTIN | 4046356948227 |
| Weight per piece (including packing) | 50.8 g |
| Weight per piece (excluding packing) | 49.3 g |
| Customs tariff number | 85363090 |
| 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 | Male |
| Number of positions | 1 |
| Surge protection fault message | optical |

Insulation characteristics

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

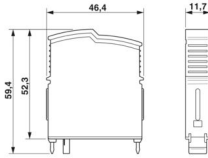
Electrical properties

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

Connection data

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

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 11.7 mm |
| Height | 46.4 mm |
| Depth | 59.4 mm |
| Horizontal pitch | 0.6 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 PBT-FR |
| Material group | I |
| Housing material | PA 6.6-FR 20 % GF |

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

Protective circuit

| | |
|--|-------------------------------------|
| Mode of protection | N-PE |
| Direction of action | N-PE |
| Nominal voltage U_N | 120 V AC (TN - only N-PE) |
| | 120 V AC (TT - only N-PE) |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous operating voltage U_C | 150 V AC |
| Protective conductor current I_{PE} | $\leq 1 \mu A$ |
| Nominal discharge current I_n (8/20) μs | 20 kA |
| Maximum discharge current I_{max} (8/20) μs | 40 kA |
| Follow current interrupt rating I_{fi} | 100 A (150 V AC) |
| Voltage protection level U_p | ≤ 0.95 kV |
| Residual voltage U_{res} | ≤ 0.4 kV (at I_n) |
| | ≤ 0.4 kV (at 10 kA) |
| | ≤ 0.4 kV (at 5 kA) |
| | ≤ 0.4 kV (at 4 kA) |
| | ≤ 0.4 kV (at 2 kA) |
| Front-of-wave sparkover voltage at 6 kV (1.2/50) μs | ≤ 0.95 kV |
| TOV behavior at U_T | 1200 V AC (200 ms / withstand mode) |
| Response time t_A | ≤ 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 | ≤ 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) |

Approvals

UL specifications

| | |
|---|------------------|
| Maximum continuous operating voltage MCOV (N-G) | 150 V AC |
| Nominal discharge current I_n (N-G) | 20 kA |
| Mode of protection | N-G |
| Power distribution system | Single phase |
| Nominal frequency | 50/60 Hz |
| Measured limiting voltage MLV (N-G) | 560 V |
| Follow current (L-G) | 200 A (150 V AC) |
| SPD Type | 4CA |

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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-34356

CCA

Approval ID: NTR-NL 7347



KEMA-KEUR

Approval ID: 2196453.01



DNV GL

Approval ID: TAE000023D

UAE-RoHS

Approval ID: 23-10-88707

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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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