

Combination type 1/2 protective device - FLT-SEC-P-T1-2C-350/25-FM - 2905416

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Plug-in lightning current arrester, in accordance with Type 1/Class I, for 2-phase power supply networks with combined PE and N installed in one conductor (L1, L2, PEN).

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
- ✓ With floating remote indication contact
- ✓ Plugs can be checked with CHECKMASTER 2



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 046356 950077 |
| GTIN | 4046356950077 |

Technical data

Dimensions

| | |
|------------------|---------|
| Height | 95.2 mm |
| Width | 71.2 mm |
| Depth | 74.5 mm |
| Horizontal pitch | 4 Div. |

Ambient conditions

| | |
|----------------------|---|
| Degree of protection | IP20 (only when all terminal points are used) |
|----------------------|---|

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Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 80 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Altitude | ≤ 2000 m (amsl (above mean sea level)) |
| 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 |
| | T1 / T2 |
| | T1 |
| | I |
| EN type | T1 / T2 |
| | T1 |
| IEC power supply system | TN-C |
| Mode of protection | L-PEN |
| Mounting type | DIN rail: 35 mm |
| Color | light grey RAL 7035 |
| | traffic grey A RAL 7042 |
| Housing material | PA 6.6-FR 20% GF |
| | PBT-FR |
| Degree of pollution | 2 |
| Flammability rating according to UL 94 | V-0 |
| Type | DIN rail module, two-section, divisible |
| Number of positions | 2 |
| Surge protection fault message | Optical, remote indicator contact |

Protective circuit

| | |
|--|------------------|
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous voltage U_C | 350 V AC |
| Rated load current I_L | 125 A (< 55 °C) |
| 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 |
| Total discharge current I_{total} (10/350) μ s | 50 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 |

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Protective circuit

| | |
|--|-------------------------------------|
| 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 V-type through wiring | 125 A (gG) |
| 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) μ s | 100 kA (AS NZS 1768:2007) |

Indicator/remote signaling

| | |
|----------------------------------|--|
| Switching function | PDT contact |
| Operating voltage | 12 V AC ... 250 V AC |
| | 125 V DC (200 mA DC) |
| Operating current | 10 mA AC ... 1 A AC |
| | 1 A DC (30 V DC) |
| Connection method | Plug-in/screw connection via COMBICON |
| Screw thread | M2 |
| Tightening torque | 0.25 Nm |
| Stripping length | 7 mm |
| Conductor cross section flexible | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross section solid | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross section AWG | 28 ... 16 |

Connection data

| | |
|----------------------------------|--|
| Connection method | Screw terminal blocks |
| Screw thread | M5 |
| Tightening torque | 4.5 Nm |
| Stripping length | 18 mm |
| Conductor cross section flexible | 2.5 mm ² ... 35 mm ² |
| Conductor cross section solid | 2.5 mm ² ... 35 mm ² |
| Conductor cross section AWG | 13 ... 2 |
| Connection method | Fork-type cable lug |
| Conductor cross section flexible | 1.5 mm ² ... 16 mm ² |

UL specifications

| | |
|---|----------|
| SPD Type | 2CA |
| Maximum continuous operating voltage MCOV (L-L) | 700 V AC |

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Technical data

UL specifications

| | |
|---|-------------|
| Maximum continuous operating voltage MCOV (L-G) | 350 V AC |
| Rated load current I _L | 50 A |
| Mode of protection | L-L |
| | L-G |
| Power distribution system | Delta |
| | Wye |
| | Split phase |
| Voltage protection rating VPR (L-L) | 2000 V |
| Voltage protection rating VPR (L-G) | 1500 V |
| Nominal discharge current I _n | 20 kA |
| Short-circuit current rating (SCCR) | 50 kA |

UL indicator/remote signaling

| | |
|-----------------------------|------------------------|
| Operating voltage | 125 V AC |
| Operating current | 1 A AC |
| Tightening torque | 4 lb _F -in. |
| Conductor cross section AWG | 30 ... 14 |

UL connection data

| | |
|-----------------------------|-------------------------|
| Conductor cross section AWG | 3 ... 2 |
| Tightening torque | 40 lb _F -in. |

Standards and Regulations

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

Environmental Product Compliance

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

Approvals

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GL / CCA / UL Recognized / KEMA-KEUR / cUL Recognized / IECEE CB Scheme / EAC / UL Recognized / cUL Recognized

Ex Approvals

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Approvals

Approval details

| | | | |
|----|--|---|-------------|
| GL | | https://approvalfinder.dnvgl.com/ | 13946-15 HH |
|----|--|---|-------------|

| | | | |
|-----|--|--|-------------|
| CCA | | | NTR-NL 7726 |
|-----|--|--|-------------|

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|---------------|--|---|---------------|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 330181 |
|---------------|--|---|---------------|

| | | | |
|-----------|--|---|-----------|
| KEMA-KEUR | | http://www.dekra-certification.com | 71-106982 |
|-----------|--|---|-----------|

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| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 330181 |
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|-----------------|--|---|----------|
| IECEE CB Scheme | | http://www.iecee.org/ | NL-56588 |
|-----------------|--|---|----------|

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|-----|--|--|---------------------|
| EAC | | | RU C-DE.A*30.B01561 |
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