

Lightning/surge arrester combination type 1+2 - FLT-SEC-T1+T2-3C-350/25-FM - 2905469

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Plug-in lightning and surge arrester combination, in accordance with Type 1+2/Class I+II, for 3-phase power supply networks, with combined PE and N installed in one conductor (L1, L2, L3, PEN).

Why buy this product

- ✓ Directly coordinated combination of type 1 spark gap without line follow current and type 2 varistor arrester
- ✓ Particularly suitable for maximum protection of sensitive devices in harsh environments
- ✓ 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 950640 |
| Weight per Piece (excluding packing) | 1154.2 g |
| Custom tariff number | 85363030 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|------------------|----------|
| Height | 95.2 mm |
| Width | 106.8 mm |
| Depth | 74.5 mm |
| Horizontal pitch | 6 Div. |

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Technical data

Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 (only when all terminal points are used) |
| 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 sinus / 11 ms / 3x ±X, ±Y, ±Z) |
| Vibration (operation) | 5g (5 - 500 Hz/2.5 h/X, Y, Z) |

General

| | |
|---|---|
| Standards/specifications | IEC 61643-11 2011 |
| | EN 61643-11 2012 |
| IEC test classification | I + II |
| | T1 + T2 |
| | T1 |
| | I |
| EN type | T1 + T2 |
| | T1 |
| IEC power supply system | TN-C |
| Lightning protection class | II |
| Number of ports | One |
| SPD design | Combination type |
| 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 |
| Pollution degree | 2 |
| Inflammability class according to UL 94 | V-0 |
| Type | DIN rail module, two-section, divisible |
| Number of positions | 3 |
| Surge protection fault message | Optical, remote indicator contact |

Protective circuit

| | |
|--|---------------------|
| Nominal voltage U_N | 240/415 V AC (TN-C) |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous operating voltage U_C (L-PEN) | 350 V AC |
| Rated load current I_L | 125 A (< 55 °C) |
| Nominal discharge current I_n (8/20) μ s (L-PEN) | 25 kA |
| Impulse discharge current (10/350) μ s (L-PEN), charge | 12.5 As |

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Protective circuit

| | |
|--|--|
| Impulse discharge current (10/350) μ s (L-PEN), specific energy | 160 kJ/ Ω |
| Impulse discharge current (10/350) μ s (L-PEN), peak current value I_{imp} | 25 kA |
| Follow current interrupt rating I_{fi} (L-PEN) | 25 kA (264 V AC) |
| | 3 kA (350 V AC) |
| Short-circuit current rating I_{SCCR} | 25 kA (264 V AC) |
| | 3 kA (350 V AC) |
| Voltage protection level U_p (L-PEN) | ≤ 1.5 kV |
| Residual voltage U_{res} (L-PEN) | ≤ 1.5 kV (at I_n) |
| | ≤ 1.2 kV (at 10 kA) |
| | ≤ 1 kV (at 5 kA) |
| | ≤ 0.9 kV (at 3 kA) |
| Front of wave sparkover voltage at 6 kV (1.2/50) μ s (L-PEN) | ≤ 1.5 kV |
| TOV behavior at U_T (L-PEN) | 415 V AC (5 s / withstand mode) |
| | 457 V AC (120 min / safe failure mode) |
| Response time t_A (L-PEN) | ≤ 25 ns |
| Max. backup fuse with branch wiring | 315 A AC (gG) |
| Max. backup fuse with V-type through wiring | 125 A AC (gG) |

Indicator/remote signaling

| | |
|---------------------------------------|---------------------------------------|
| Connection name | Remote fault indicator contact |
| Switching function | PDT contact |
| Operating voltage | 12 V AC ... 250 V AC |
| | 125 V AC (UL) |
| | 125 V DC (200 mA DC) |
| Operating current | 10 mA AC ... 1 A AC |
| | 1 A AC (UL) |
| | 1 A DC (30 V DC) |
| Connection method | Plug-in/screw connection via COMBICON |
| Screw thread | M2 |
| Tightening torque | 0.25 Nm |
| | 4 lb _f -in. |
| Stripping length | 7 mm |
| Conductor cross section flexible min. | 0.14 mm ² |
| Conductor cross section flexible max. | 1.5 mm ² |
| Conductor cross section solid min. | 0.14 mm ² |
| Conductor cross section solid max. | 1.5 mm ² |
| AWG conductor cross section | 28 ... 16 |
| | 30 ... 14 (UL) |

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Connection data

| | |
|---------------------------------------|------------------------------|
| Connection method | Screw terminal blocks |
| Conductor cross section flexible min. | 2.5 mm ² |
| Conductor cross section flexible max. | 25 mm ² |
| Conductor cross section solid min. | 2.5 mm ² |
| Conductor cross section solid max. | 35 mm ² |
| AWG conductor cross section | 13 ... 2 |
| | 12 ... 2 (UL) |
| Screw thread | M5 |
| Tightening torque | 4.5 Nm |
| | 40 lb _F -in. (UL) |
| Stripping length | 18 mm |

UL specifications

| | |
|---|------------------------------------|
| UL class | Type 4 SPD for Type 2 applications |
| Maximum continuous operating voltage MCOV (L-L) | 528 V AC |
| Maximum continuous operating voltage MCOV (L-G) | 264 V AC |
| Nom. voltage | 240 V AC |
| Mode of protection | L-G |
| | L-L |
| Power distribution system | 3D |
| Nominal frequency | 50/60 Hz |
| Voltage protection rating VPR (L-L) | 2 kV |
| Voltage protection rating VPR (L-G) | 1.2 kV |
| Nominal discharge current I _n (L-L) | 20 kA |
| Nominal discharge current I _n (L-G) | 20 kA |
| Follow current (L-N) | 10 kA (264 V AC) |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 5.1 | 27140201 |
| eCl@ss 6.0 | 27140201 |
| eCl@ss 8.0 | 27130808 |

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC001457 |
|----------|----------|

Approvals

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Approvals


Approvals

UL Recognized / KEMA-KEUR / cUL Recognized / CCA / IECCEB Scheme / GL / EAC / cULus Recognized


Ex Approvals

Approvals submitted

Approval details

UL Recognized 

KEMA-KEUR 


cUL Recognized 

CCA

IECEE CB Scheme 

GL

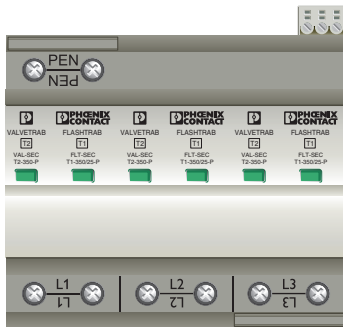
EAC

cULus Recognized 

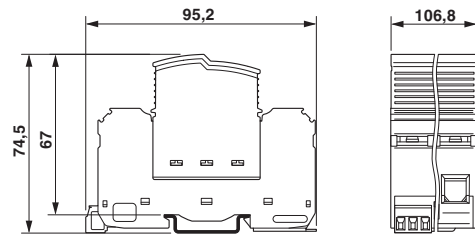
Drawings

Lightning/surge arrester combination type 1+2 - FLT-SEC-T1+T2-3C-350/25-FM - 2905469

Product drawing



Dimensional drawing



Circuit diagram

