

Lightning/surge arrester combination type 1+2 - FLT-SEC-T1+T2-2C-350/25-FM - 2905467

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

Your advantages

- ✓ 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

package_quantity	1
GTIN	4046356950596

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)
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)

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Technical data

Ambient conditions

Vibration (operation)	5g (5 - 500 Hz/2.5 h/X, Y, Z)
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General

IEC test classification	I + II
IEC test classification	T1 + T2
IEC test classification	T1
IEC test classification	I
EN type	T1 + T2
EN type	T1
IEC power supply system	TN-C
Mode of protection	L-PEN
Mounting type	DIN rail: 35 mm
Color	light grey RAL 7035
Color	traffic grey A RAL 7042
Housing material	PA 6.6-FR 20% GF
Housing material	PBT-FR
Degree of pollution	2
Flammability rating according to UL 94	V-0
Design	DIN rail module, two-section, divisible
Number of positions	2
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 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
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}	25 kA (264 V AC)
Follow current interrupt rating I_{fi}	3 kA (350 V AC)
Short-circuit current rating I_{SCCR}	25 kA (264 V AC)
Short-circuit current rating I_{SCCR}	3 kA (350 V AC)
Voltage protection level U_p	≤ 1.5 kV
Residual voltage U_{res}	≤ 1.5 kV (at I_n)
Residual voltage U_{res}	≤ 1.2 kV (at 10 kA)
Residual voltage U_{res}	≤ 1 kV (at 5 kA)
Residual voltage U_{res}	≤ 0.9 kV (at 3 kA)

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Protective circuit

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)
TOV behavior at U_T	457 V AC (120 min / safe failure mode)
Response time t_A	≤ 25 ns
Max. backup fuse with branch wiring	315 A (gG)
Max. backup fuse with V-type through wiring	125 A (gG)

Additional technical data

Maximum discharge current I_{max} (8/20) μ s	50 kA
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Indicator/remote signaling

Switching function	PDT contact
Operating voltage	12 V AC ... 250 V AC
Operating voltage	125 V DC (200 mA DC)
Operating current	10 mA AC ... 1 A AC
Operating current	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

UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV (L-L)	528 V AC
Maximum continuous operating voltage MCOV (L-G)	264 V AC
Nom. voltage	240/415 V AC
Mode of protection	L-L
Mode of protection	L-G
Power distribution system	3D
Nominal frequency	50/60 Hz

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Technical data

UL specifications

Measured limiting voltage MLV (L-L)	2450 V
Measured limiting voltage MLV (L-G)	1340 V
Nominal discharge current I_n (L-L)	20 kA
Nominal discharge current I_n (L-G)	20 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	12 ... 2
Tightening torque	40 lb _F -in.

Standards and Regulations

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

Environmental Product Compliance

REACH SVHC	UV -328 25973-55-1
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Classifications

eCl@ss

eCl@ss 5.1	27140201
eCl@ss 6.0	27140201
eCl@ss 8.0	27130808
eCl@ss 9.0	27130808

ETIM

ETIM 5.0	EC001457
ETIM 6.0	EC001457

UNSPSC

UNSPSC 13.2	39121620
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Approvals

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

Approval details

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UL Recognized 

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CCA

IECEE CB Scheme 

GL 

EAC 

cULus Recognized 

Accessories

End block

CLIPFIX 35 - 3022218



Marker pen

X-PEN 0,35 - 0811228



Device marking

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Accessories

EML (20XE)R - 0803452



EML (20XE)R YE - 0803453



ZBN 18:UNBEDRUCKT - 2809128



ZBN 18:UNBEDRUCKT - 2809128



Labeled device marker

ZBN 18,LGS:L1-N,ERDE - 2749576



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Accessories

ZBN 18,LGS:ERDE - 2749589



Terminal marking

ZBFM 5/WH:UNBEDRUCKT - 0803595



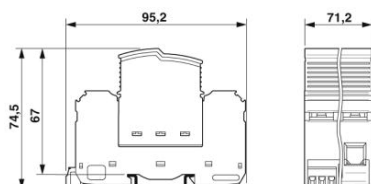
Accessories

ZBN 18:SO/CMS - 0800763



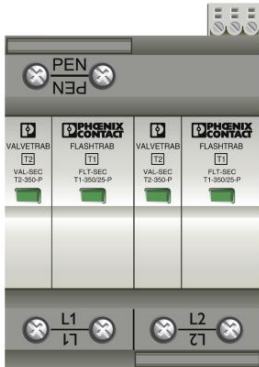
Drawings

Dimensional drawing

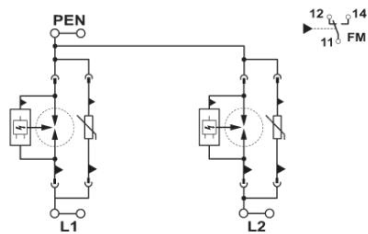


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Product drawing



Circuit diagram



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