

Lightning/surge arrester combination type 1+2 - FLT-CP-3C-350 - 2859725

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Pluggable lightning current and surge arrester combination, in acc. with typ 1+2 / Class I+II / B+C arresters. Arresters coordinated following the AEC principle, for 3-phase power supply networks with PE and N (L1, L2, L3, PEN) installed in one cable.

Why buy this product

- ✓ Plugs can be checked with CHECKMASTER
- ✓ High continuous voltage of 350 V AC for 230/400 V AC networks with high voltage fluctuations
- ✓ With floating remote indication contact
- ✓ Thermal disconnect device for each individual plug
- ✓ Optical, mechanical status indication for the individual arresters



Key commercial data

Packing unit	1 pc
GTIN	 4 017918 956448
Weight per Piece (excluding packing)	1062.23 g
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

Height	95 mm
Width	106.8 mm
Depth	71.5 mm
Horizontal pitch	6 Div.

Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C ... 80 °C

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Technical data

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g (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
EN type	T1 + T2
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	gray/blue
	black
Housing material	PBT
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)
Standby power consumption P_C	≤ 300 mVA
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
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)

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Protective circuit

	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)
	440 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 stranded min.	0.14 mm ²
Conductor cross section stranded 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)

Connection data

Connection method	Screw terminal blocks
Conductor cross section stranded min.	2.5 mm ²
Conductor cross section stranded max.	25 mm ²
Conductor cross section solid min.	2.5 mm ²
Conductor cross section solid max.	35 mm ²

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Technical data

Connection data

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 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130808
eCl@ss 7.0	27130808
eCl@ss 8.0	27130808

ETIM

ETIM 2.0	EC001457
ETIM 3.0	EC001457
ETIM 4.0	EC001457
ETIM 5.0	EC001457

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Classifications

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

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

Ex Approvals

Approvals submitted

Approval details

UL Recognized

KEMA-KEUR

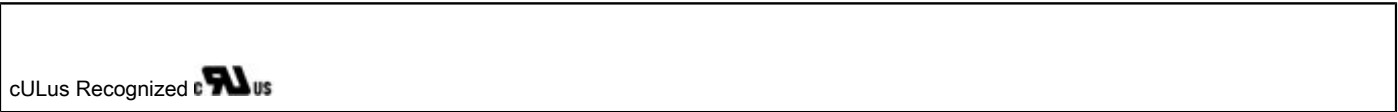
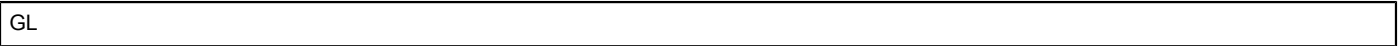
cUL Recognized

GOST

CCA

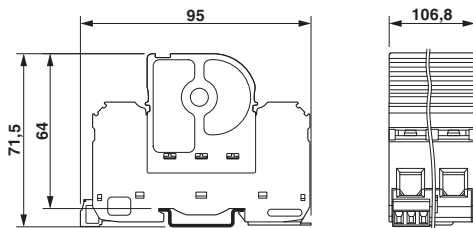
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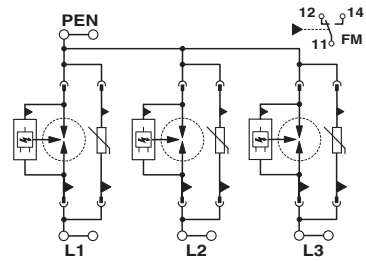


Drawings

Dimensioned drawing



Circuit diagram



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Application drawing

