

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)




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	95.8 mm
Width	106.9 mm
Depth	70 mm
Horizontal pitch	6 Div.

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C

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

Technical data

General

IEC power supply system	TN-C
Housing material	PBT
Inflammability class according to UL 94	V0
Color	gray
Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1
	IEC 61643-1
Surge voltage category	III
Pollution degree	2
Mounting type	DIN rail: 35 mm
Type	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	Optical, remote indicator contact
Direction of action	3L-N/PE

Protective circuit

IEC test classification	I + II
	T1 + T2
EN type	T1 + T2
Lightning protection class	I /100 kA (TN-C)
Nominal voltage U_N	240 V AC (230/400 V AC ... 240/415 V AC)
Maximum continuous operating voltage U_C (L-PEN)	350 V AC
U_T (TOV-proof)	415 V (5 sec.)
Nominal frequency f_N	50 Hz
	60 Hz
Rated load current I_L	125 A ($\leq 55^\circ\text{C}$)
Standby power consumption P_C	$\leq 3.5 \text{ mW}$ ($\leq 150 \text{ mVA}$)
Nominal discharge current I_n (8/20) μs (L-PEN)	75 kA (all channels)
Impulse discharge current (10/350) μs , charge	37.5 As
Impulse discharge current (10/350) μs , specific energy	1.40 MJ/ Ω
Impulse discharge current (10/350) μs , peak value I_{imp}	75 kA (3-pos.)
Impulse discharge current (10/350) μs , charge	12.5 As
Impulse discharge current (10/350) μs , specific energy	160.00 kJ/ Ω
Impulse discharge current (10/350) μs , peak value I_{imp}	25 kA (1-pos.)
Voltage protection level U_p (L-PEN)	$\leq 1.5 \text{ kV}$
Residual voltage (L-PEN)	$\leq 1.3 \text{ kV}$
	$\leq 1.1 \text{ kV}$ (10 kA)
	$\leq 1 \text{ kV}$ (5 kA)
	$\leq 1 \text{ kV}$ (3 kA)

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

Technical data

Protective circuit

Response time (L-PEN)	≤ 25 ns
Max. required backup fuse with branch wiring	315 A (gL / gG)
Max. required backup fuse with V-type through wiring	125 A (gL / gG)
Recommended backup fuse maximum	160 A (gL/gG, 125 A with serial through wiring)
Short-circuit resistance I_p with max. backup fuse (effective)	25 kA
Follow current quenching capacity I_f (L-PEN)	25 kA (264 V AC)
	3 kA (350 V AC)

Connection, protective circuit

Connection method	Screw terminal blocks
Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block
Connection method	Biconnect terminal block
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	18 mm
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
Conductor cross section AWG/kcmil min.	13
Conductor cross section AWG/kcmil max	2

Remote indicator contact

Connection name	Remote fault indicator contact
Switching function	PDT contact
Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
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
Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	16
Maximum operating voltage U_{max} AC	250 V AC
Maximum operating voltage U_{max} DC	125 V DC
Max. operating current I_{max}	1 A AC (inductive)
	1 A AC (ohmic)

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

Technical data

Remote indicator contact

	30 mA DC (inductive)
	200 mA DC (ohmic)

Standards and Regulations

Standards/regulations	IEC 61643-1 2005
	EN 61643-11 2002
	UL 1449

Classifications

eCl@ss

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

ETIM

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

UNSPSC

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

Approvals

Approvals

Approvals

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


Ex Approvals

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


Approvals

Approvals submitted

Approval details


UL Recognized 

KEMA-KEUR 


cUL Recognized 

GOST 

CCA

IECEE CB Scheme 

GL

cULus Recognized 

Accessories

Accessories

Device marking

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

Accessories

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm

Labeled device marker

Marker for terminal blocks - ZBN 18,LGS:L1-N,ERDE - 2749576



Marker for terminal blocks, Strip, white, labeled, Horizontal: L1, L2, L3, N, GND, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm

Marker for terminal blocks - ZBN 18,LGS:ERDE - 2749589



Marker for terminal blocks, Strip, white, labeled, Horizontal: Grounding symbol, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm

Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Terminal marking

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

Accessories

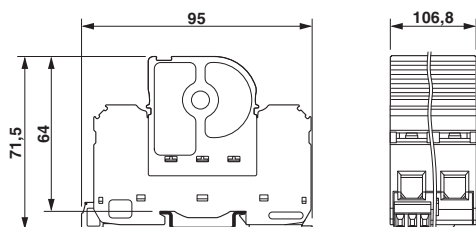
Flat zack marker sheet - ZBFM 5/WH:UNBEDRUCKT - 0803595

Flat zack marker sheet, Sheet, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 5.2 mm, Lettering field: 5 x 4.5 mm

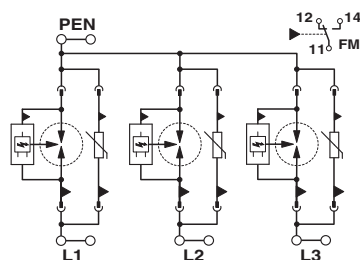


Drawings

Dimensioned drawing



Circuit diagram



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

Application drawing

