

# Surge Arresters FLT-CP-PLUS-...C-350

## FLASHTRAB compact PLUS

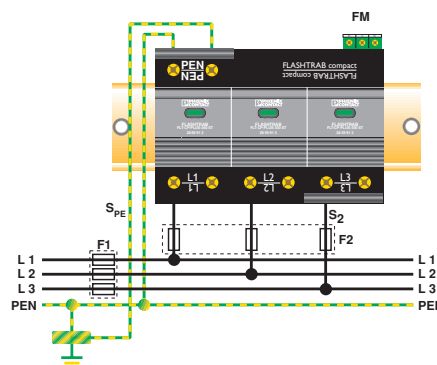
FLT-CP-PLUS are compact and powerful type 1 surge arresters that can also be used without restrictions in the in the area of the intermediate meter. They exactly round off the innovative program of the compact family with type 1 and type 2 arresters.

The pluggable spark gaps are characterized by extremely high performance data such as 50 kA line follow current quenching capacity. For all power supplies commonly used worldwide, convenient installation blocks are available. And of course, all advantages of the Compact family concept are integrated within these new products.

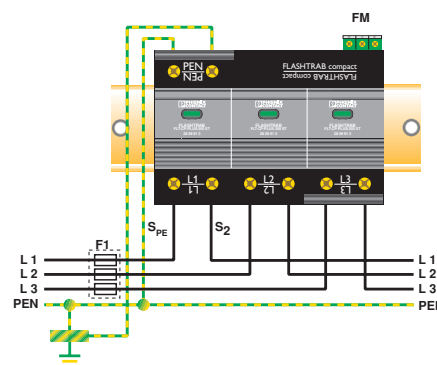
The FLT-CP-PLUS-...C... product version is intended for use in power supply systems in which neutral and protective conductors are installed in one cable.

Further FLASHTRAB compact PLUS features:

- Slim, application-oriented installation blocks
- Universal pluggability
- Mechanical keying of all slots
- Variable installation direction
- Thermal disconnect device on both sides
- Mechanical status indication of individual arresters without power consumption
- Integrated floating PDT contact for remote signaling
- Biconnect terminal blocks
- Comprehensive labeling options
- In order to ensure the full performance capability of the surge protection devices, missing plugs or plugs without components are reported as errors at the remote indicator contact.



Branch wiring of FLT-CP-PLUS-3C-350 in a TN-C system



Through wiring of FLT-CP-PLUS-3C-350 in a TN-C system



### Note

Products bearing this stamp (plug elements) can all be tested with the CHECKMASTER.

# FLT-CP-PLUS-3C-350

Arrester combination for 4-conductor networks in a TN-C system



## Technical Data

<b>FLASHTRAB compact PLUS,</b> for 3-phase power supply systems	L1, L2, L3, PEN
<b>Replacement connector,</b>	Lightning current arrester L-N

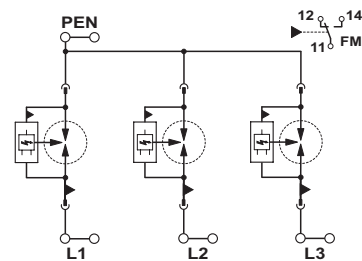
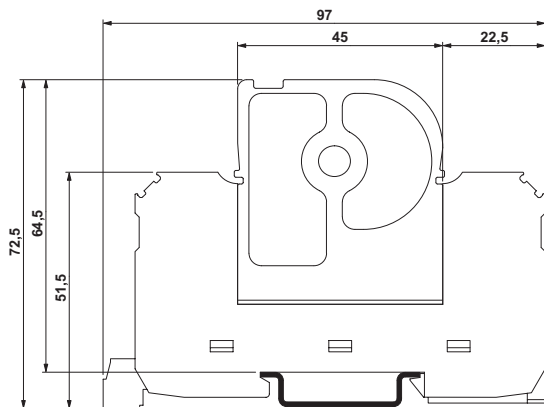
Type	Order No.	Pcs. Pkt.
<b>FLT-CP-PLUS-3C-350</b>	<b>2882653</b>	<b>1</b>
<b>FLT-CP-PLUS-350-ST</b>	<b>2859913</b>	<b>1</b>

## Technical Data

IEC category/VDE requirement class/EN type		I / B / T1
Lightning protection class:		I
Nominal voltage $U_N$ :	L-PEN	240 V AC
Arrester rated voltage $U_C$ :	L-PEN	350 V AC
Lightning test current $I_{imp}$ (10/350) $\mu$ s:	Peak value	75 kA (L1+L2+L3-PEN)
	Charge/specific energy	37,5 As / 1.4 MJ/ $\Omega$
Nominal discharge surge current $i_{sn}$ (8/20) $\mu$ s:		25 kA (per channel L-PEN)
Protection level $U_p$ :	L-PEN	$\leq 1.5$ kV
Response time $t_a$ :	L-PEN	$\leq 100$ ns
Follow current quenching capacity $I_{ff}$ :		50 kA <sub>eff</sub>
Backup fuse <sup>1)</sup> max. in acc. with IEC:		315 A
Short circuit resistance with max. backup fuse $I_p$ :		50 kA <sub>eff</sub>
Temperature range:		-40°C ... +80°C
Degree of protection in acc. with IEC 60529/EN 60529:		IP20
Total width:		105 mm (6 TE)
Insulation housing:		PBT
Inflammability class:		V0
Thread/torque:	Biconnect terminal block	M5 / 4.5 Nm
	Remote indication contact	M2 / 0.25 Nm
Approvals:		KEBA applied for
Test standards:		DIN EN 61643-11:2002-07 / IEC 61643-1:1998-02 / UL 1449 / IEEE C62.1 / IEEE C62.34 / IEEE C62.45
Remote indication contact:	PDT	floating
	Max. operating voltage	250 AC / 125 V DC
	Max. operating current AC ( $\Omega$ /Ind.)	1 A / 1 A
	Max. operating current DC ( $\Omega$ /Ind.)	200 mA / 30 mA

I / B / T1
I
240 V AC
350 V AC
75 kA (L1+L2+L3-PEN)
37,5 As / 1.4 MJ/ $\Omega$
25 kA (per channel L-PEN)
$\leq 1.5$ kV
$\leq 100$ ns
50 kA <sub>eff</sub>
315 A
50 kA <sub>eff</sub>
-40°C ... +80°C
IP20
105 mm (6 TE)
PBT
V0
M5 / 4.5 Nm
M2 / 0.25 Nm
KEBA applied for
DIN EN 61643-11:2002-07 / IEC 61643-1:1998-02 / UL 1449 / IEEE C62.1 / IEEE C62.34 / IEEE C62.45
floating
250 AC / 125 V DC
1 A / 1 A
200 mA / 30 mA

<sup>1)</sup> 315 A gL/gG tested acc. to IEC, recommended fuse 160 A gL/gG for branch wiring  
125 A gL/gG for (V) through wiring



# FLT-CP-2C-350

Arrester combination for 3-conductor networks in a TN-C system



## Technical Data

<b>FLASHTRAB compact PLUS,</b> for 2-phase power supply systems	L1, L2, PEN
<b>Replacement connector,</b>	Lightning current arrester L-N

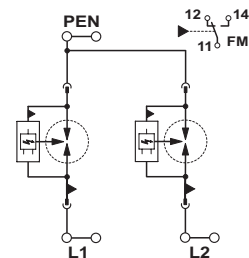
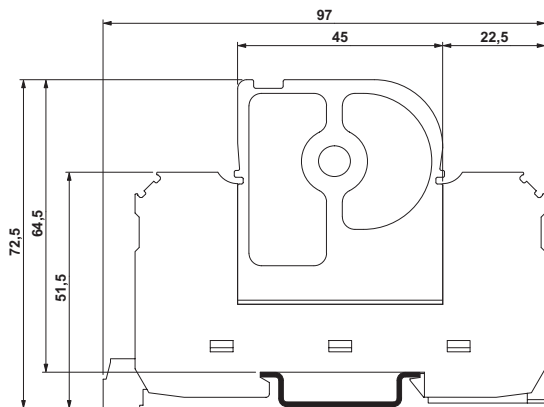
Type	Order No.	Pcs. Pkt.
<b>FLT-CP-PLUS-2C-350</b>	<b>2882679</b>	<b>1</b>
<b>FLT-CP-PLUS-350-ST</b>	<b>2859913</b>	<b>1</b>

## Technical Data

IEC category/VDE requirement class/EN type	
Lightning protection class:	
Nominal voltage $U_N$ :	L-PEN
Arrester rated voltage $U_C$ :	L-PEN
Lightning test current $I_{imp}$ (10/350) $\mu$ s:	Peak value
	Charge/specific energy
Nominal discharge surge current $i_{sn}$ (8/20) $\mu$ s:	
Protection level $U_p$ :	L-PEN
Response time $t_a$ :	L-PEN
Follow current quenching capacity $I_{ff}$ :	
Backup fuse <sup>1)</sup> max. in acc. with IEC:	
Short circuit resistance with max. backup fuse $I_p$ :	
Temperature range:	
Degree of protection in acc. with IEC 60529/EN 60529:	
Total width:	
Insulation housing:	
Inflammability class:	
Thread/torque	Biconnect terminal block
	Remote indication contact
Approvals:	
Test standards:	
Remote indication contact:	PDT
	Max. operating voltage
	Max. operating current AC ( $\Omega$ /Ind.)
	Max. operating current DC ( $\Omega$ /Ind.)

I / B / T1
III / IV
240 V AC
350 V AC
50 kA (L1+L2-PEN)
25 As / 625 kJ/ $\Omega$
25 kA (per channel L-PEN)
$\leq 1.5$ kV
$\leq 100$ ns
50 kA <sub>eff</sub>
315 A
50 kA <sub>eff</sub>
-40°C ... +80°C
IP20
70 mm (4 TE)
PBT
V0
M5 / 4.5 Nm
M2 / 0.25 Nm
KEBA applied for
DIN EN 61643-11:2002-07 / IEC 61643-1:1998-02 / UL 1449 /
IEEE C62.1 / IEEE C62.34 / IEEE C62.45
floating
250 AC / 125 V DC
1 A / 1 A
200 mA / 30 mA

<sup>1)</sup> 315 A gL/gG tested acc. to IEC, recommended fuse 160 A gL/gG for branch wiring  
125 A gL/gG for (V) through wiring



# FLT-CP-1C-350

Arrester combination for 2-conductor networks in a TN-C system



## Technical Data

<b>FLASHTRAB compact PLUS,</b> for 1-phase power supply systems	L1, PEN
<b>Replacement connector,</b>	Lightning current arrester L-N

Type	Order No.	Pcs. Pkt.
<b>FLT-CP-PLUS-1C-350</b>	<b>2882695</b>	<b>1</b>
<b>FLT-CP-PLUS-350-ST</b>	<b>2859913</b>	<b>1</b>

## Technical Data

IEC category/VDE requirement class/EN type	L-PEN	I / B / T1
Lightning protection class:	L-PEN	III / IV
Nominal voltage $U_N$ :	L-PEN	240 V AC
Arrester rated voltage $U_C$ :	L-PEN	350 V AC
Lightning test current $I_{imp}$ (10/350) $\mu$ s:	Peak value	25 kA (L1-PEN)
	Charge/specific energy	12.5 As / 160 kJ/ $\Omega$
Nominal discharge surge current $i_{sn}$ (8/20) $\mu$ s:	L-PEN	25 kA (per channel L-PEN)
Protection level $U_p$ :	L-PEN	$\leq 1.5$ kV
Response time $t_a$ :	L-PEN	$\leq 100$ ns
Follow current quenching capacity $I_{fi}$ :		50 kA <sub>eff</sub>
Backup fuse <sup>1)</sup> max. in acc. with IEC:		315 A
Short circuit resistance with max. backup fuse $I_p$ :		50 kA <sub>eff</sub>
Temperature range:		-40°C ... +80°C
Degree of protection in acc. with IEC 60529/EN 60529:		IP20
Total width:		35 mm (2 TE)
Insulation housing:		PBT
Inflammability class:		V0
Thread/torque	Biconnect terminal block	M5 / 4.5 Nm
	Remote indication contact	M2 / 0.25 Nm
Approvals:		KEBA applied for
Test standards:		DIN EN 61643-11:2002-07 / IEC 61643-1:1998-02 / UL 1449 / IEEE C62.1 / IEEE C62.34 / IEEE C62.45
Remote indication contact:	PDT	floating
	Max. operating voltage	250 AC / 125 V DC
	Max. operating current AC ( $\Omega$ /Ind.)	1 A / 1 A
	Max. operating current DC ( $\Omega$ /Ind.)	200 mA / 30 mA

<sup>1)</sup> 315 A gL/gG tested acc. to IEC, recommended fuse 160 A gL/gG for branch wiring  
125 A gL/gG for (V) through wiring

