



**Automatización Eléctrica**  
Especialistas en Automatización

At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking [HERE](#)

## Surge protection and interference filters

### Surge protection for the power supply unit

#### Type 1 lightning arresters FLASHTRAB compact PLUS

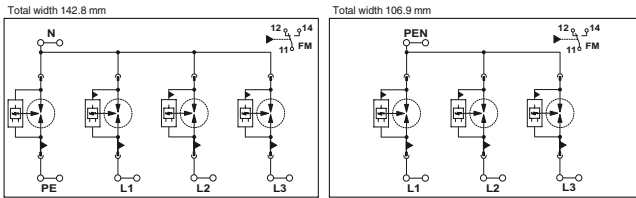
- Seamless pluggability (even for N/PE spark gap)
- Thermal disconnect device for each individual connector
- Optical, mechanical status indication for the individual arresters
- With floating remote indication contact
- Connectors can be checked with CHECKMASTER
- High continuous voltage of 350 V AC for 230/400 V AC networks with high voltage fluctuations



5-conductor system; L1, L2, L3, N, PE

4-conductor system; L1, L2, L3, PEN

**Notes:**  
For certifications, see page 154



Technical data		Technical data	
Electrical data			
IEC category / EN type	I / T1	I / T1	
Nominal voltage $U_n$	240 V AC (230/400 V AC ... 240/415 V AC)	240 V AC (230/400 V AC ... 240/415 V AC)	
Maximum continuous operating voltage $U_c$	L-N / N-PE / L-PEN 350 V AC / 350 V AC / -	- / - / 350 V AC	
Lightning test curr. $I_{imp}$ (10/350) $\mu$ s	Peak value 100 kA Charge 50 As Specific energy 2.50 MJ/Q	75 kA 37.5 As 1.40 MJ/Q	
Nominal discharge surge current $I_n$ (8/20) $\mu$ s	L-N / N-PE / L-PEN 25 kA / 100 kA / -	- / - / 75 kA (3L-PEN)	
Follow current quenching capacity $I_q$	L-N / N-PE / L-PEN 50 kA (264 V AC) / 100 A / -	- / - / 50 kA (264 V AC)	
Protection level $U_p$	L-N / N-PE / L-PEN $\leq 1.5$ kV / $\leq 1.5$ kV / -	- / - / $\leq 1.5$ kV	
Response time $t_a$	L-N / N-PE / L-PEN $\leq 100$ ns / $\leq 100$ ns / -	- / - / $\leq 100$ ns	
Backup fuse max. in acc. with IEC	L-N / N-PE / L-PEN 315 A (gL/gG)	315 A (gL/gG)	
Immunity to short-circuiting (with max. backup fuse) $I_p$	50 kA	50 kA	
General data			
Dimensions W / H / D	142.8 mm / 97 mm / 71.5 mm	106.9 mm / 95.8 mm / 70 mm	
Connection data solid / stranded / AWG	2.5 ... 35 mm <sup>2</sup> / 2.5 ... 25 mm <sup>2</sup> / 13 - 2	2.5 ... 35 mm <sup>2</sup> / 2.5 ... 25 mm <sup>2</sup> / 13 - 2	
Temperature range	-40 °C ... 80 °C	-40 °C ... 80 °C	
Inflammability class in acc. with UL 94	V0	V0	
Test standards	IEC 61643-1 / EN 61643-11 / EN 61643-11/A11 / UL 1449	IEC 61643-1 / EN 61643-11 / EN 61643-11/A11 / UL 1449	
Remote indication contact	PDT	PDT	
Connection data solid / stranded / AWG	0.14 ... 1.5 mm <sup>2</sup> / 0.14 ... 1.5 mm <sup>2</sup> / 28 - 16	0.14 ... 1.5 mm <sup>2</sup> / 0.14 ... 1.5 mm <sup>2</sup> / 28 - 16	
Max. operating voltage	250 V AC / 125 V DC	250 V AC / 125 V DC	
Max. operating current	1 A AC / 200 mA DC	1 A AC / 200 mA DC	

Ordering data				Ordering data			
Description	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	
FLASHTRAB compact PLUS	FLT-CP-PLUS-3S-350	2882640	1	FLT-CP-PLUS-3C-350	2882653	1	

Accessories				Accessories			
Replacement connector	L-N / L-PEN N-PE	FLT-CP-PLUS-350-ST FLT-CP-N/PE-350-ST	2859913 2859686	10 10	FLT-CP-PLUS-350-ST	2859913	10
Labeling material	ZBN 18 ..., see page 63			ZBN 18 ..., see page 63			

## Surge protection and interference filters

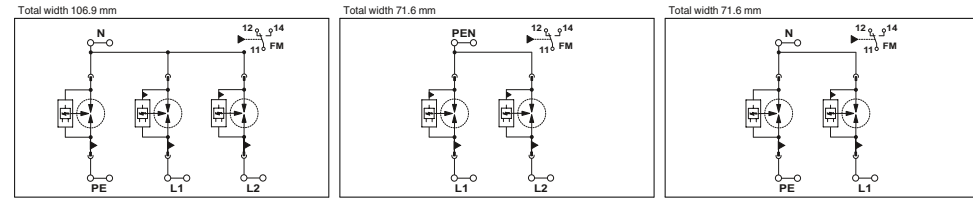
### Surge protection for the power supply unit



4-conductor system; L1, L2, N, PE

3-conductor system; L1, L2, PEN

3-conductor system; L, N, PE



Technical data		Technical data		Technical data	
Electrical data					
IEC category / EN type	I / T1	I / T1		I / T1	
Nominal voltage $U_n$	240 V AC (230/400 V AC ... 240/415 V AC)	240 V AC (230/400 V AC ... 240/415 V AC)		240 V AC (230/400 V AC ... 240/415 V AC)	
Maximum continuous operating voltage $U_c$	L-N / N-PE / L-PEN 350 V AC / 350 V AC / -	- / - / 350 V AC		L-N / N-PE / L-PEN 350 V AC / 350 V AC / -	
Lightning test curr. $I_{imp}$ (10/350) $\mu$ s	Peak value 75 kA 37.5 As 1.40 MJ/Q	50 kA 25 As 625.00 kJ/Q		50 kA 25 As 625.00 kJ/Q	
Nominal discharge surge current $I_n$ (8/20) $\mu$ s	L-N / N-PE / L-PEN 25 kA / 100 kA / -	- / - / 25 kA		L-N / N-PE / L-PEN 25 kA / 100 kA / -	
Follow current quenching capacity $I_q$	L-N / N-PE / L-PEN 50 kA (264 V AC) / 100 A / -	- / - / 50 kA (264 V AC)		L-N / N-PE / L-PEN 50 kA (264 V AC) / 100 A / -	
Protection level $U_p$	L-N / N-PE / L-PEN $\leq 1.5$ kV / $\leq 1.5$ kV / -	- / - / $\leq 1.5$ kV		L-N / N-PE / L-PEN $\leq 1.5$ kV / $\leq 1.5$ kV / -	
Response time $t_a$	L-N / N-PE / L-PEN $\leq 100$ ns / $\leq 100$ ns / -	- / - / $\leq 100$ ns		L-N / N-PE / L-PEN $\leq 100$ ns / $\leq 100$ ns / -	
Backup fuse max. in acc. with IEC	L-N / N-PE / L-PEN 315 A (gL/gG)	315 A (gL/gG)		L-N / N-PE / L-PEN 315 A (gL/gG)	
Immunity to short-circuiting (with max. backup fuse) $I_p$	50 kA	50 kA		L-N / N-PE / L-PEN 50 kA	
General data					
Dimensions W / H / D	106.9 mm / 95.8 mm / 70 mm	71.6 mm / 95.8 mm / 70 mm		71.6 mm / 95.8 mm / 70 mm	
Connection data solid / stranded / AWG	2.5 ... 35 mm <sup>2</sup> / 2.5 ... 25 mm <sup>2</sup> / 13 - 2	2.5 ... 35 mm <sup>2</sup> / 2.5 ... 25 mm <sup>2</sup> / 13 - 2		2.5 ... 35 mm <sup>2</sup> / 2.5 ... 25 mm <sup>2</sup> / 13 - 2	
Temperature range	-40 °C ... 80 °C	-40 °C ... 80 °C		-40 °C ... 80 °C	
Inflammability class in acc. with UL 94	V0	V0		V0	
Test standards	IEC 61643-1 / EN 61643-11 / EN 61643-11/A11 / UL 1449	IEC 61643-1 / EN 61643-11 / EN 61643-11/A11 / UL 1449		IEC 61643-1 / EN 61643-11 / EN 61643-11/A11 / UL 1449	
Remote indication contact	PDT	PDT		PDT	
Connection data solid / stranded / AWG	0.14 ... 1.5 mm <sup>2</sup> / 0.14 ... 1.5 mm <sup>2</sup> / 28 - 16	0.14 ... 1.5 mm <sup>2</sup> / 0.14 ... 1.5 mm <sup>2</sup> / 28 - 16		0.14 ... 1.5 mm <sup>2</sup> / 0.14 ... 1.5 mm <sup>2</sup> / 28 - 16	
Max. operating voltage	250 V AC / 125 V DC	250 V AC / 125 V DC		250 V AC / 125 V DC	
Max. operating current	1 A AC / 200 mA DC	1 A AC / 200 mA DC		1 A AC / 200 mA DC	

Ordering data				Ordering data				Ordering data			
Description	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.		Type	Order No.	Pcs. / Pkt.	
FLASHTRAB compact PLUS	FLT-CP-PLUS-2S-350	2882666	1	FLT-CP-PLUS-2C-350	2882679	1		FLT-CP-PLUS-1S-350	2882682	1	

Accessories				Accessories				Accessories			
Replacement connector	L-N / L-PEN N-PE	FLT-CP-PLUS-350-ST FLT-CP-N/PE-350-ST	2859913 2859686	10 10	FLT-CP-PLUS-350-ST	2859913	10	FLT-CP-PLUS-350-ST FLT-CP-N/PE-350-ST	2859913 2859686	10 10	
Labeling material	ZBN 18 ..., see page 63			ZBN 18 ..., see page 63				ZBN 18 ..., see page 63			

Below is a list of articles with direct links to our shop Electric Automation Network where you can see:

- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, [click on the green button.](#)

Product	Code	Reference	Product link
Pluggable lighting current arrester, in acc. with type 1/class I/B for 3-phase power supply networks with combined PE and N (L1, L2, L3, PE, N).	2882640	FLT-CP-PLUS-3S-350	<a href="#">Buy on EAN</a>
Pluggable lighting current arrester, in acc. with type 1/class I/B for 3-phase power supply networks with combined PE and N (L1, L2, L3, PEN) installed in one cable.	2882653	FLT-CP-PLUS-3C-350	<a href="#">Buy on EAN</a>
Pluggable lighting current arrester, in acc. with type 1/class I/B for 2-phase power supply networks with combined PE and N (L1, L2, PE, N).	2882666	FLT-CP-PLUS-2S-350	<a href="#">Buy on EAN</a>
Pluggable lighting current arrester, in acc. with type 1/class I/B for 2-phase power supply networks with combined PE and N (L1, L2, PEN) installed in one cable.	2882679	FLT-CP-PLUS-2C-350	<a href="#">Buy on EAN</a>
Pluggable lighting current arrester, in acc. with type 1/class I/B for 1-phase power supply networks with separately installed PE and N (L1, PE, N).	2882682	FLT-CP-PLUS-1S-350	<a href="#">Buy on EAN</a>