



Automatización Eléctrica
Especialistas en Automatización

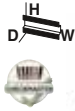
At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking [HERE](#)

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

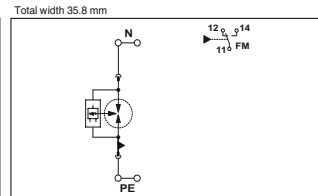
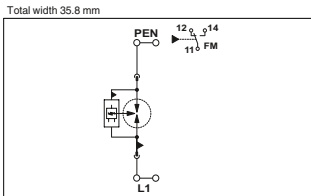


2-conductor system; L, PEN



N-PE spark gap,
for Lightning Protection Level 1

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 (N-PE)
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) μ s	Peak value	100 kA
	Charge	50 As
	Specific energy	2.50 MJ/Q
Nominal discharge surge current I_n (8/20) μ s	L-N / N-PE / L-PEN	25 kA / - / 25 kA
		- / 100 kA / -
Follow current quenching capacity I_q	L-N / N-PE / L-PEN	50 kA (264 V AC) / - / 50 kA (264 V AC)
		- / 100 A / -
Protection level U_p	L-N / N-PE / L-PEN	≤ 1.5 kV / - / ≤ 1.5 kV
		- / ≤ 1.5 kV / -
Response time t_A	L-N / N-PE / L-PEN	- / - / ≤ 100 ns
		- / - / ≤ 100 ns / -
Backup fuse max. in acc. with IEC	L-N / N-PE / L-PEN	315 A (gL/gG)
Immunity to short-circuiting (with max. backup fuse) I_p		50 kA
General data		
Dimensions W / H / D	35.8 mm / 95.8 mm / 70 mm	35.8 mm / 95.8 mm / 70 mm
Connection data solid / stranded / AWG	2.5 ... 35 mm ² / 2.5 ... 25 mm ² / 13 - 2	2.5 ... 35 mm ² / 2.5 ... 25 mm ² / 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 ² / 0.14 ... 1.5 mm ² / 28 - 16	0.14 ... 1.5 mm ² / 0.14 ... 1.5 mm ² / 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

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
FLASHTRAB compact PLUS	FLT-CP-PLUS-1C-350	2882695	1			
FLASHTRAB compact				FLT-CP-N/PE-350	2859754	1

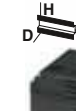
Replacement connector	Accessories			Accessories		
	L-N / L-PEN N-PE	FLT-CP-PLUS-350-ST	2859913	10	FLT-CP-N/PE-350-ST	2859686
Labeling material	ZBN 18 ..., see page 63			ZBN 18 ..., see page 63		

Surge protection and interference filters

Surge protection for the power supply unit

Type 1 lightning arresters FLASHTRAB

- 1-channel
- Triggered
- High discharge capacity
- Good follow current quenching capacity with higher rated voltage
- Direct parallel connection with type 2 arresters supported

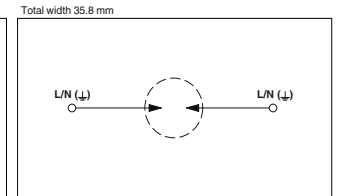
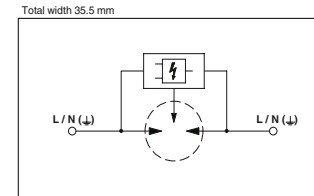


2.5 kV/3 kV protection level



N-PE spark gap, single-channel, plug-in

Notes:
For certifications, see page 154



	Technical data	Technical data	Technical data
Electrical data			
IEC category / EN type	... 2.5	... 3.0	... 1.5
Nominal voltage U_n	I/T1 230 V AC (400 V AC)	I/T1 230 V AC (400 V AC)	I/T1 230 V AC (N-PE)
Maximum continuous operating voltage U_c	L-N / N-PE / L-PEN 440 V AC / - / 440 V AC	440 V AC / - / 440 V AC	- / 260 V AC / -
Lightning test curr. I_{imp} (10/350) μ s	Peak value	50 kA	100 kA
	Charge	25 As	50 As
	Specific energy	625.00 kJ/Q	625.00 kJ/Q
Nominal discharge surge current I_n (8/20) μ s	L-N / N-PE / L-PEN	50 kA / - / 50 kA	50 kA / - / -
		- / 100 kA / -	- / 100 kA / -
Protection level U_p	L-N / N-PE / L-PEN	≤ 2.5 kV / - / ≤ 2.5 kV	≤ 3 kV / - / ≤ 3 kV
		- / ≤ 1.5 kV / -	- / ≤ 1.5 kV / -
Response time t_A	L-N / N-PE / L-PEN	≤ 100 ns / - / ≤ 100 ns	≤ 100 ns / - / ≤ 100 ns
		- / - / ≤ 100 ns / -	- / - / ≤ 100 ns / -
Backup fuse max. in acc. with IEC		500 A (NH-gL)	-
Immunity to short-circuiting (with max. backup fuse) I_p		25 kA (440 V AC)	-
General data			
Dimensions W / H / D		35.5 mm / 150 mm / 80.5 mm	35.8 mm / 95.8 mm / 70 mm
Connection data solid / stranded / AWG		10 ... 50 mm ² / 16 ... 35 mm ² / 6 - 1	2.5 ... 35 mm ² / 2.5 ... 25 mm ² / 13 - 2
Temperature range		-40 °C ... 85 °C	-40 °C ... 80 °C
Inflammability class in acc. with UL 94		V0	V0
Test standards		IEC 61643-1 / DIN EN 61643-11 / DIN EN 61643-11/A11	IEC 61643-1 / EN 61643-11 / EN 61643-11/A11

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
FLASHTRAB PLUS CTRL Without status indicator	FLT-PLUS CTRL-2.5 FLT-PLUS CTRL-3.0	2800121 2800168	1 1			
FLASHTRAB PLUS CTRL With status indicator	FLT-PLUS CTRL-2.5/I FLT-PLUS CTRL-3.0/I	2800122 2800170	1 1			
FLASHTRAB				FLT 100 N/PE-1.5	2800303	1

Labeling material	Accessories		Accessories	
	ZBN 18 ..., see page 63	MPB ..., see page 61	ZBN 18 ..., see page 63	MPB ..., see page 61
Wiring bridge				

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
Type 1 / Class I (lightning current arrester) with arc chopping spark gap and ignition electronics, quenching plates for high mains follow-through current quenching capacity, 1-channel. Protection level: 2.5 kV. Housing width: 35 mm (2 Div.)	2800121	FLT-PLUS CTRL-2.5	Buy on EAN
Type 1 / Class I (lightning current arrester) with arc chopping spark gap and ignition electronics with control lamp, quenching plates for high mains follow-through current quenching capacity, 1-channel. Protection level: 2.5 kV. Housing width: 35 mm (2 D)	2800122	FLT-PLUS CTRL-2.5/I	Buy on EAN
Type 1 / Class I (lightning current arrester) with arc chopping spark gap and ignition electronics, quenching plates for high mains follow-through current quenching capacity, 1-channel. Protection level: 3 kV. Housing width: 35 mm (2 Div.)	2800168	FLT-PLUS CTRL-3.0	Buy on EAN
Type 1 / Class I (lightning current arrester) with arc chopping spark gap and ignition electronics with control lamp, quenching plates for high mains follow-through current quenching capacity, 1-channel. Protection level: 3 kV. Housing width: 35 mm (2 Div)	2800170	FLT-PLUS CTRL-3.0/I	Buy on EAN
Encapsulated pluggable Class I arresters as N/PE spark gap with an ignition mechanism for triggering the sparkover voltage.	2859754	FLT-CP-N/PE-350	Buy on EAN
Pluggable lightning current arrester, in acc. with type 1/class I/B for 1-phase power supply networks with combined PE and N (L1, PEN) installed in one cable.	2882695	FLT-CP-PLUS-1C-350	Buy on EAN