

# Lightning arrester type 1 - FLT-PLUS CTRL-0.9/I - 2818960

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Type 1 / Class I / B arrester (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: 0.9 kV. Housing width: 35 mm (2 Div.)



## Key commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Packing unit                         | 1 pc                           |
| GTIN                                 | 4 017918 168780                |
| Weight per Piece (excluding packing) | 514.24 g                       |
| Custom tariff number                 | 85363030                       |
| Country of origin                    | Germany                        |
| Note                                 | Made to Order (non-returnable) |

## Technical data

### Dimensions

|                  |          |
|------------------|----------|
| Height           | 149.8 mm |
| Width            | 35.5 mm  |
| Depth            | 80.5 mm  |
| Horizontal pitch | 2 Div.   |

### Ambient conditions

|                                  |                  |
|----------------------------------|------------------|
| Degree of protection             | IP20             |
| Ambient temperature (operation)  | -40 °C ... 85 °C |
| Permissible humidity (operation) | ≤ 95 %           |

### General

|   |             |
|---|-------------|
| Housing material                                | PBT/PA-F    |
| Inflammability class according to UL 94         | V0          |
| Color   | black       |
| Standards for clearances and creepage distances | VDE 0110-1  |
|   | IEC 60664-1 |
|   | VDE 0675-6  |

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## Technical data

### General

|                                |                                  |
|--------------------------------|----------------------------------|
|                                | NF C61-740                       |
| Mounting type                  | DIN rail: 35 mm                  |
| Type                           | Rail-mountable module, one-piece |
| Number of positions            | 1                                |
| Surge protection fault message | Optical                          |
| Direction of action            | 1L-N/PE                          |

### Protective circuit

|  |                       |
|--|-----------------------|
| IEC test classification  | I                     |
|  | T1                    |
| EN type  | T1                    |
| Nominal voltage $U_N$  | 240 V AC              |
|  | 230 V AC ... 277 V AC |
| Maximum continuous operating voltage $U_C$                       | 335 V AC              |
| Maximum continuous operating voltage $U_C$ (L-N)                 | 335 V AC              |
| Maximum continuous operating voltage $U_C$ (L-PEN)               | 335 V AC              |
| Nominal frequency $f_N$  | 50 Hz                 |
|  | 60 Hz                 |
| Residual current $I_{PE}$  | $\leq 2.5$ mA         |
| Operating effective current $I_C$ at $U_N$                       | $\leq 2.5$ mA         |
| Nominal discharge current $I_n$ (8/20) $\mu$ s                   | 50 kA                 |
| Nominal discharge current $I_n$ (8/20) $\mu$ s (L-N)             | 50 kA                 |
| Nominal discharge current $I_n$ (8/20) $\mu$ s (L-PEN)           | 50 kA                 |
| Impulse discharge current (10/350) $\mu$ s charge                | 25 As                 |
| Impulse discharge current (10/350) $\mu$ s, specific energy      | 625 kJ/ $\Omega$      |
| Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$ | 50 kA                 |
| Voltage protection level $U_p$                                   | $\leq 0.9$ kV         |
| Voltage protection level $U_p$ (L-N)                             | $\leq 0.9$ kV         |
| Voltage protection level $U_p$ (L-PEN)                           | $\leq 0.9$ kV         |
| Response time  | $\leq 100$ ns         |
| Response time (L-N)  | $\leq 100$ ns         |
| Response time (L-PEN)  | $\leq 100$ ns         |
| Max. backup fuse with branch wiring                              | 250 A (gL)            |
| Short-circuit resistance $I_P$ with max. backup fuse (effective) | 50 kA                 |
| Short-circuit current self-quenching                             | 50 kA                 |
| Follow current quenching capacity $I_{fi}$ (L-N)                 | 50 kA                 |
| Follow current quenching capacity $I_{fi}$ (L-PEN)               | 50 kA                 |

### Connection, protective circuit

|                    |                                |
|--------------------|--------------------------------|
| Connection method  | Screw connection               |
| Connection type IN | Biconnect screw terminal block |

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## Technical data

### Connection, protective circuit

|  |                                |
|--|--------------------------------|
| Connection type OUT                    | Biconnect screw terminal block |
| Connection method                      | Biconnect terminal block       |
| Screw thread                           | M6                             |
| Tightening torque                      | 8 Nm                           |
| Stripping length                       | 19 mm                          |
| Conductor cross section stranded min.  | 16 mm <sup>2</sup>             |
| Conductor cross section stranded max.  | 35 mm <sup>2</sup>             |
| Conductor cross section solid min.     | 10 mm <sup>2</sup>             |
| Conductor cross section solid max.     | 50 mm <sup>2</sup>             |
| Conductor cross section AWG/kcmil min. | 6                              |
| Conductor cross section AWG/kcmil max  | 1                              |

### Standards and Regulations

|                       |                  |
|-----------------------|------------------|
| Standards/regulations | UL 1449 ed. 2    |
|                       | IEC 61643-1 1998 |
|                       | NF C61-740 1995  |

## 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 | 27130802 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000381 |
| ETIM 3.0 | EC000381 |
| ETIM 4.0 | EC000381 |
| ETIM 5.0 | EC000381 |

### UNSPSC

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

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## Approvals

Approvals

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Approvals

EAC

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Ex Approvals

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Approvals submitted

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Approval details

|     |
|-----|
| EAC |
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## Accessories

Accessories

Bridge

Wiring bridge - MPB 18/1-57 - 2809238



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 57-pos.

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Wiring bridge - MPB 18/1-12 - 2748593



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 12-pos.

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Wiring bridge - MPB 18/1- 9 - 2748580



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 9-pos.

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### Accessories

Wiring bridge - MPB 18/1- 8 - 2748577



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos.

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Wiring bridge - MPB 18/1- 6 - 2748564



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 6-pos.

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Wiring bridge - MPB 18/1- 4 - 2809225



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 4-pos.

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- MPB 18/1- 3 - 2809212

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Wiring bridge - MPB 18/1- 2 - 2809209



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 2-pos.

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### Device marking

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

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## Lightning arrester type 1 - FLT-PLUS CTRL-0.9/I - 2818960

### Accessories

#### End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

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#### Labeled device marker

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

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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

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#### Marker pen

Marker pen - B-STIFT - 1051993



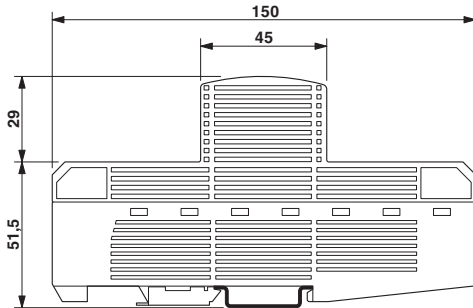
Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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### Drawings

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Dimensioned drawing



Circuit diagram

