

## FLT-PLUS CTRL-1.5/I

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Order No.: 2818931

The illustration shows version FLT-PLUS CTRL-0,9



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2818931>

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: 1.5 kV. Housing width: 35 mm (2 Div.)

### Commercial data

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 017918 163235 |
| sales group              | J013                                                                                                   |
| Pack                     | 1 pcs.                                                                                                 |
| Customs tariff           | 85363030                                                                                               |
| Catalog page information | Page 17 (TT-2007)                                                                                      |

### Product notes

WEEE/RoHS-compliant since:  
05/18/2006



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### Technical data

#### Standards

|                                    |          |
|------------------------------------|----------|
| Housing material                   | PBT/PA-F |
| Inflammability class acc. to UL 94 | V0       |

|                                          |                                  |
|------------------------------------------|----------------------------------|
| Spark gap insulation                     | PA 6.6 GF                        |
|                                          | POM                              |
| Color                                    | black                            |
| Standards for air and creepage distances | DIN VDE 0110-1                   |
|                                          | IEC 60664-1: 1992-10             |
|                                          | DIN VDE 0675-6                   |
|                                          | IEC 61643-1                      |
|                                          | NF C61-740                       |
| Surge voltage category                   | III                              |
| Pollution degree                         | 2                                |
| Degree of protection                     | IP20                             |
| Mounting type                            | DIN rail: 35 mm                  |
| Design                                   | Rail-mountable module, one-piece |
| Number of positions                      | 1                                |
| Ambient temperature (operation)          | -40 °C ... 85 °C                 |
| Permissible humidity (operation)         | ≤ 95 %                           |
| Message: Surge protection fault          | Optical                          |
| Direction of action                      | 1L-N/PE                          |
| Width                                    | 35.50 mm                         |
| Height                                   | 80.50 mm                         |
| Length                                   | 149.80 mm                        |
| Pitch unit                               | 2 Div.                           |

#### Protective circuit

|                                                       |          |
|-------------------------------------------------------|----------|
| IEC category                                          | I        |
|                                                       | T1       |
| EN type                                               | T1       |
| Nominal voltage $U_N$                                 | 400 V AC |
| Arrester rated voltage $U_C$                          | 440 V AC |
| Arrester rated voltage $U_C$ (L-N)                    | 440 V AC |
| Arrester rated voltage $U_C$ (L-PEN)                  | 440 V AC |
| Nominal frequency $f_N$                               | 50 Hz    |
|                                                       | 60 Hz    |
| Ground conductor current $I_{PE}$                     | ≤ 3 mA   |
| Operating effective current $I_C$ at $U_N$            | ≤ 3 mA   |
| Max. discharge surge current $I_{max}$ (8/20) $\mu s$ | 50 kA    |

|                                                                  |                     |
|------------------------------------------------------------------|---------------------|
| Nominal discharge surge current $I_n$ (8/20) $\mu$ s             | 50 kA               |
| Nominal discharge surge current $I_n$ (8/20) $\mu$ s (L-N)       | 50 kA               |
| Nominal discharge surge current $I_n$ (8/20) $\mu$ s (L-PEN)     | 50 kA               |
| Lightning test current (10/350) $\mu$ s, charge                  | 25 As               |
| Lightning test current (10/350) $\mu$ s, specific energy         | 625.00 kJ/ $\Omega$ |
| Lightning test current (10/350) $\mu$ s, peak value $I_{imp}$    | 50 kA               |
| 100% lightning impulse sparkover voltage (1.2/50) $\mu$ s        | $\leq 1.5$ kV       |
| Protection level $U_p$                                           | $\leq 1.5$ kV       |
| Protection level $U_p$ (L-N)                                     | $\leq 1.5$ kV       |
| Protection level $U_p$ (L-PEN)                                   | $\leq 1.5$ kV       |
| Response time                                                    | $\leq 100$ ns       |
| Response time (L-N)                                              | $\leq 100$ ns       |
|                                                                  | $\leq 100$ ns       |
| Max. required backup fuse with branch wiring                     | 250 A (gL)          |
| Short-circuit resistance $I_p$ with max. backup fuse (effective) | 50 kA (At 400 V AC) |
| Short-circuit current self-quenching                             | 50 kA (400 V)       |
| Follow current quenching capacity $I_f$ (L-N)                    | 50 kA (At 400 V AC) |
| Follow current quenching capacity $I_f$ (L-PE)                   | 50 kA (At 400 V AC) |

#### Connection, protective circuit

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

#### Environmental conditions

|                       |                     |
|-----------------------|---------------------|
| Standards/regulations | E DIN VDE 0675-6/A1 |
|                       | UL 1449             |
|                       | IEEE C62.1          |
|                       | IEEE C62.41         |
|                       | IEC 61643-1         |
|                       | prEN 61643-1        |

#### Certificates / Approvals



Certification

GOST

#### Accessories

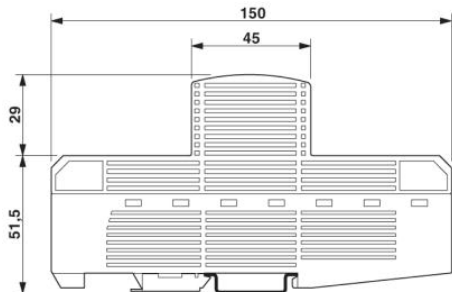
| Item            | Designation | Description                                                               |
|-----------------|-------------|---------------------------------------------------------------------------|
| <b>Assembly</b> |             |                                                                           |
| 1201442         | E/UK        | End clamp, for assembly on NS 32 or NS 35/7.5 DIN rail                    |
| <b>Bridges</b>  |             |                                                                           |
| 2809209         | MPB 18/1- 2 | Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 2-pos.  |
| 2809212         | MPB 18/1- 3 | Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 3-pos.  |
| 2809225         | MPB 18/1- 4 | Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 4-pos.  |
| 2748564         | MPB 18/1- 6 | Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 6-pos.  |
| 2748577         | MPB 18/1- 8 | Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos.  |
| 2748580         | MPB 18/1- 9 | Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 9-pos.  |
| 2748593         | MPB 18/1-12 | Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 12-pos. |
| 2809238         | MPB 18/1-57 | Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 57-pos. |

Marking

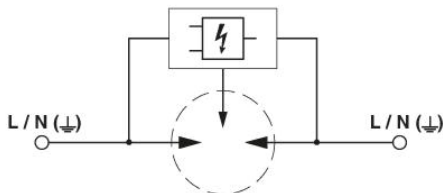
|         |                      |                                                                                                                                                 |
|---------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 1051993 | B-STIFT              | Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm                                     |
| 2749589 | ZBN 18,LGS:ERDE      | Marking labels, printed horizontally, strips with 5 labels, GND (grounding symbol), color: White                                                |
| 2749576 | ZBN 18,LGS:L1-N,ERDE | Marker labels, printed horizontally, strips with 5 labels, L1, L2, L3, N, GND, color: white                                                     |
| 2809128 | ZBN 18:UNBEDRUCKT    | Unprinted marker labels, strips with 5 labels for individual labeling with M-PEN or CMS system, for terminal block width: 17.5 mm, color: White |

Diagrams/Drawings

Dimensioned drawing



Circuit diagram



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