

Lightning arrester type 1 - FLT-PLUS CTRL-1.5/I - 2800120

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

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.)

Product Features

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



Key commercial data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 563.1 GRM |
| Custom tariff number | 85363010 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|------------------|---------|
| Height | 150 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 % |

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Technical data

General

| | |
|--|----------------------------------|
| IEC power supply system | TT |
| | TN-C |
| | TN-S |
| Housing material | PA-GF |
| Inflammability class according to UL 94 | V0 |
| Spark gap insulation | PA 6.6 GF |
| | POM |
| Color | black |
| Standards for air and creepage distances | EN 60664-1 |
| | EN61643-11 |
| 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 | 230 V AC (400 V AC) |
| Maximum continuous operating voltage U_C | 350 V AC |
| Maximum continuous operating voltage U_C (L-N) | 350 V AC |
| Maximum continuous operating voltage U_C (L-PEN) | 350 V AC |
| U_T (TOV-proof) | 350 V (5 sec.) |
| Nominal frequency f_N | 50 Hz |
| | 60 Hz |
| Residual current I_{PE} | ≤ 3 mA |
| Standby power consumption P_C | ≤ 1.05 VA |
| Max. discharge current I_{max} (8/20) μ s | 50 kA |
| Nominal discharge current I_n (8/20) μ s | 50 kA |
| Nominal discharge current I_n (8/20) μ s (L-N) | 50 kA |
| Nominal discharge current I_n (8/20) μ s (L-PEN) | 50 kA |
| Impulse discharge current (10/350) μ s charge | 25 As |
| Impulse discharge current (10/350) μ s, specific energy | 625 kJ/ Ω |
| Impulse discharge current (10/350) μ s, peak value I_{imp} | 50 kA |
| Front of wave sparkover voltage at 6 kV (1.2/50) μ s | ≤ 1.5 kV |

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Protective circuit

| | |
|--|---------------|
| Voltage protection level U_p | ≤ 1.5 kV |
| Voltage protection level U_p (L-N) | ≤ 1.5 kV |
| Voltage protection level U_p (L-PEN) | ≤ 1.5 kV |
| Response time | ≤ 100 ns |
| Response time (L-N) | ≤ 100 ns |
| Response time (L-PEN) | ≤ 100 ns |
| Max. backup fuse with branch wiring | 500 A (NH-gL) |
| Short-circuit resistance I_p with max. backup fuse (effective) | 50 kA |
| Follow current quenching capacity I_f | 50 kA |

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 ² |
| Conductor cross section stranded max. | 35 mm ² |
| Conductor cross section solid min. | 10 mm ² |
| Conductor cross section solid max. | 50 mm ² |
| Conductor cross section AWG/kcmil min. | 6 |
| Conductor cross section AWG/kcmil max | 1 |

Standards and Regulations

| | |
|-----------------------|--------------------------|
| Standards/regulations | IEC 61643-1 2005 |
| | DIN EN 61643-11 2002 |
| | DIN EN 61643-11/A11 2007 |

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 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 7.0 | 27140201 |
| eCl@ss 8.0 | 27140201 |

ETIM

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

UNSPSC

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

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized

Ex Approvals

Approvals submitted

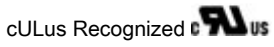
Approval details

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| UL Recognized |
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| cUL Recognized |
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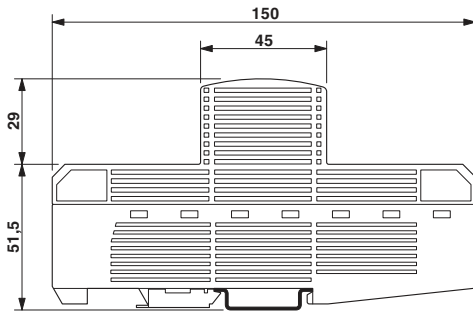
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Approvals



Drawings

Dimensioned drawing



Circuit diagram

