



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Lightning arrester type 1 - FLT-PLUS CTRL-2.5/I - 2800122

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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

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 Div.)

### Product Features

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



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	560.0 g
Custom tariff number	85363010
Country of origin	Germany

### Technical data

#### Note

Trade restriction	The products are offered exclusively for export outside the EU and the European Economic Area.
-------------------	--

#### Dimensions

Height	150 mm
Width	35.5 mm
Depth	80.5 mm
Horizontal pitch	2 Div.

#### Ambient conditions

# Lightning arrester type 1 - FLT-PLUS CTRL-2.5/I - 2800122

## Technical data

### Ambient conditions

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

### General

IEC power supply system	TT
	TN-C
	TN-S
	IT
Housing material	PA-GF
Flammability rating according to UL 94	V0
Color	black
Standards for clearances and creepage distances	EN 60664-1
	EN 61643-11
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
Maximum continuous operating voltage $U_C$	440 V AC
Maximum continuous operating voltage $U_C$ (L-N)	440 V AC
Maximum continuous operating voltage $U_C$ (L-PEN)	440 V AC
$U_T$ (TOV-proof)	440 V AC (5 sec.)
$U_T$ (TOV-safe)	1640 V AC (200 ms)
Nominal frequency $f_N$	50 Hz
	60 Hz
Residual current $I_{PE}$	≤ 3 mA
Standby power consumption $P_C$	≤ 1.32 VA
Max. discharge current $I_{max}$ (8/20) $\mu$ s	50 kA
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
Front of wave sparkover voltage at 6 kV (1.2/50) $\mu$ s	≤ 2.5 kV

# Lightning arrester type 1 - FLT-PLUS CTRL-2.5/I - 2800122

## Technical data

### Protective circuit

Voltage protection level $U_p$	$\leq 2.5$ kV
Voltage protection level $U_p$ (L-N)	$\leq 2.5$ kV
Voltage protection level $U_p$ (L-PEN)	$\leq 2.5$ kV
Response time $t_A$	$\leq 100$ ns
Response time $t_A$ (L-N)	$\leq 100$ ns
Response time $t_A$ (L-PE)	$\leq 100$ ns
Max. backup fuse with branch wiring	500 A (NH-gL)
Short-circuit resistance $I_p$ with max. backup fuse (effective)	25 kA (440 V AC)
	50 kA (350 V AC)
Follow current interrupt rating $I_{fi}$	25 kA (440 V AC)
	50 kA (350 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 flexible min.	16 mm <sup>2</sup>
Conductor cross section flexible 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 min.	6
Conductor cross section AWG 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



# Lightning arrester type 1 - FLT-PLUS CTRL-2.5/I - 2800122

## Classifications

### eCl@ss

eCl@ss 5.1	27140201
eCl@ss 6.0	27140201
eCl@ss 7.0	27140201
eCl@ss 8.0	27130802
eCl@ss 9.0	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

## Approvals

### Approvals

---

#### Approvals

EAC / cULus Recognized

---

#### Ex Approvals

---

#### Approvals submitted

---

#### Approval details

EAC
-----

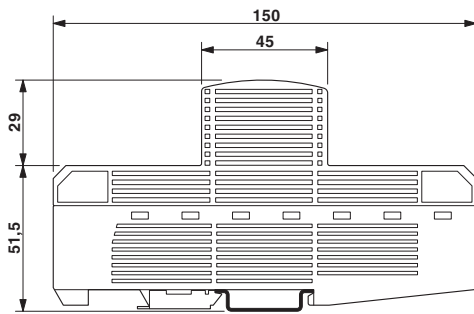
# Lightning arrester type 1 - FLT-PLUS CTRL-2.5/I - 2800122

## Approvals



## Drawings

Dimensional drawing



Circuit diagram

