

# CT 10-2PE/FSR-24 - Surge protection plug



2807968

<https://www.phoenixcontact.com/us/products/2807968>

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 documentation. Our general terms of use for downloads are valid.



LSA-PLUS plug (COMTRAB CT 10) with coarse/fine surge protection and decoupling resistor for 10 floating signal circuits. Nominal voltage: 24 V DC. Version: 10 double wires.

## Your advantages

- Space-saving due to compact design
- Flexible fields of application with modular protective plug
- Can be used in LSA-PLUS disconnect and control strips or CT-TERMIBLOCK via adapted connection technology

## Commercial data

Item number	2807968
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL03
Product key	CL3212
GTIN	4017918104757
Weight per piece (including packing)	127 g
Weight per piece (excluding packing)	127 g
Customs tariff number	85363010
Country of origin	DE

# CT 10-2PE/FSR-24 - Surge protection plug

2807968

<https://www.phoenixcontact.com/us/products/2807968>

## Technical data

### Product properties

Product type	Surge protection for MCR technology
Product family	COMTRAB
IEC test classification	C1
	C2
	C3
	D1
Type	LSA-PLUS module
Surge protection fault message	none
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00
Wire pairs per module	10

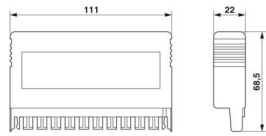
### Electrical properties

Nominal voltage $U_N$	24 V DC
-----------------------	---------

### Connection data

Connection method	can be plugged into COMTRAB-TERMIBLOCK and LSA-PLUS disconnect and switching strips
-------------------	---

### Dimensions

Dimensional drawing	
Width	111 mm
Height	22 mm
Depth	68.5 mm

### Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V0
Housing material	PBT

### Mechanical properties

#### Mechanical data

Open side panel	No
-----------------	----

### Protective circuit

Direction of action	Line-Line & Line-Earth Ground
Nominal voltage $U_N$	24 V DC

# CT 10-2PE/FSR-24 - Surge protection plug



2807968

<https://www.phoenixcontact.com/us/products/2807968>

Maximum continuous operating voltage $U_C$	40 V DC
	28 V AC
Rated current	200 mA (25 °C)
Operating effective current $I_C$ at $U_C$	$\leq 5 \mu\text{A}$ (a-b)
Protective conductor current $I_{PE}$	$\leq 1 \mu\text{A}$ (per path)
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-line)	5 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-ground)	5 kA
Total discharge current $I_{Total}$ (8/20) $\mu\text{s}$	10 kA
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (line-line)	5 kA
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (line-earth)	5 kA
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-line) spike	$\leq 95 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-earth) spike	$\leq 650 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-line) static	$\leq 60 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-earth) static	$\leq 650 \text{ V}$
Residual voltage at $I_n$ (conductor-conductor)	$\leq 55 \text{ V}$
Response time $t_A$ (line-line)	$\leq 1 \text{ ns}$
Response time $t_A$ (line-earth)	$\leq 100 \text{ ns}$
Input attenuation aE, sym.	1.5 dB (typ. up to 2 MHz / 50 $\Omega$ )
	0.6 dB (typ. up to 1 MHz / 150 $\Omega$ )
	0.2 dB (typ. up to 100 kHz / 600 $\Omega$ )
Cut-off frequency $f_g$ (3 dB), sym. in 50 $\Omega$ system	7 MHz (typ.)
Cut-off frequency $f_g$ (3 dB), sym. in 150 $\Omega$ system	4 MHz (typ.)
Cut-off frequency $f_g$ (3 dB), sym. in 600 $\Omega$ system	900 kHz (typ.)
Capacity (Core-Core)	1.1 nF ( $f=1 \text{ MHz} / V_R=0 \text{ V}$ )
Capacity (Core-Earth)	1 pF (typ.)
Resistance per path	10 $\Omega \pm 10 \%$
Surge protection fault message	none
Max. required back-up fuse	200 mA
Impulse durability (line-line)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 100 A
Impulse durability (line-earth)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 100 A
	D1 - 2.5 kA

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 75 °C

## Standards and regulations

Standards Information technology specification

# CT 10-2PE/FSR-24 - Surge protection plug



2807968

<https://www.phoenixcontact.com/us/products/2807968>

Standards/regulations	IEC 61643-21
	IEC 61643-21

## Air clearances and creepage distances

Standards/regulations	VDE 0110-1 / IEC 60664-1
Standards/specifications	IEC 61643-21
Note	2000

## Mounting

Mounting type	On CT-TERMBLOCK and LSA-PLUS disconnect strip
---------------	---

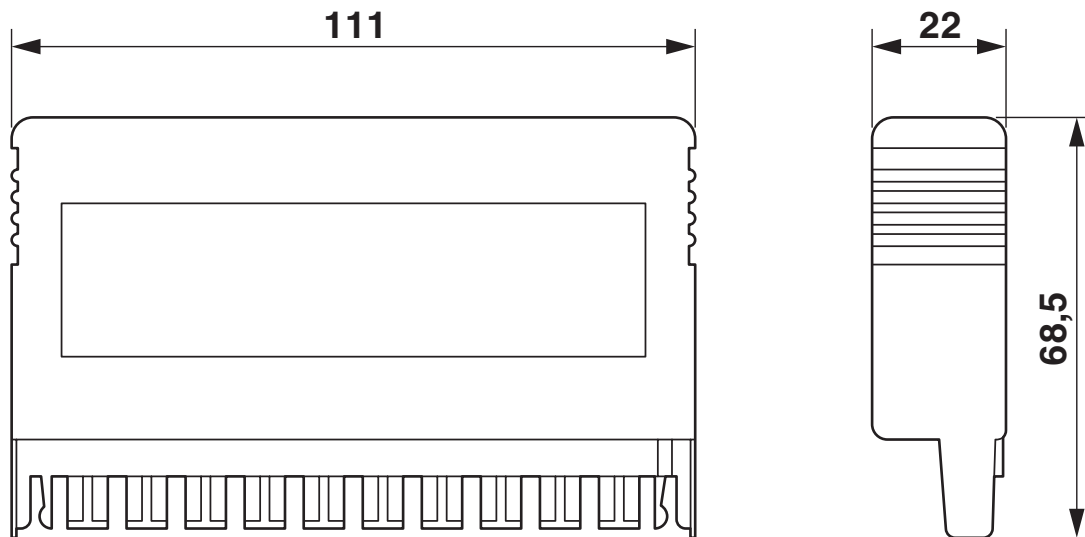
# CT 10-2PE/FSR-24 - Surge protection plug

2807968

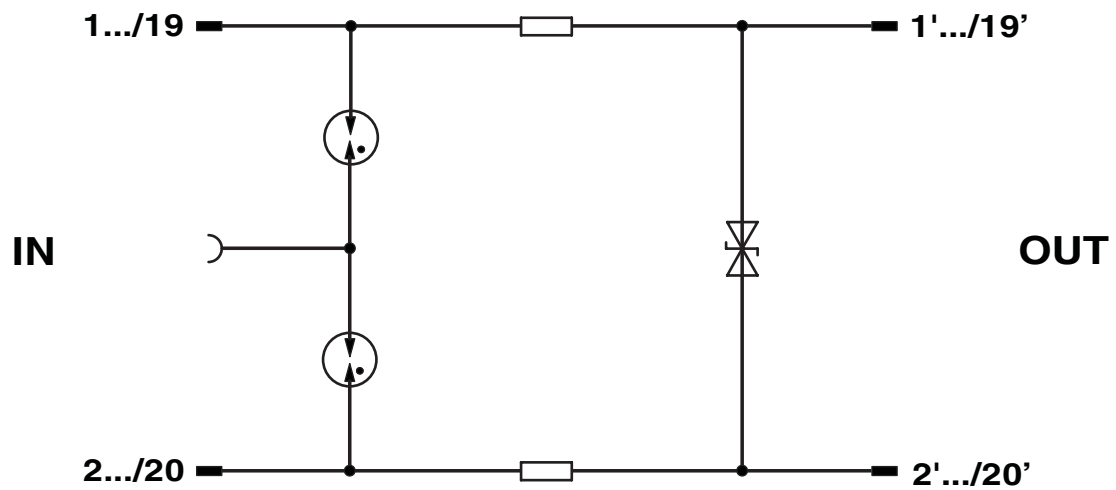
<https://www.phoenixcontact.com/us/products/2807968>

## Drawings

Dimensional drawing



Circuit diagram



# CT 10-2PE/FSR-24 - Surge protection plug



2807968

<https://www.phoenixcontact.com/us/products/2807968>

## Classifications

### ECLASS

ECLASS-13.0	27171501
ECLASS-15.0	27171501

### ETIM

ETIM 10.0	EC001466
-----------	----------

### UNSPSC

UNSPSC 21.0	39121600
-------------	----------

# CT 10-2PE/FSR-24 - Surge protection plug



2807968

<https://www.phoenixcontact.com/us/products/2807968>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	91109fd0-e792-479b-96d0-9eff98e74837

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)