

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



2807968

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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

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## 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

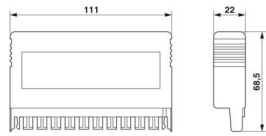
### Electrical properties

Nominal voltage $U_N$	24 V DC
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### Connection data

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

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

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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

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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
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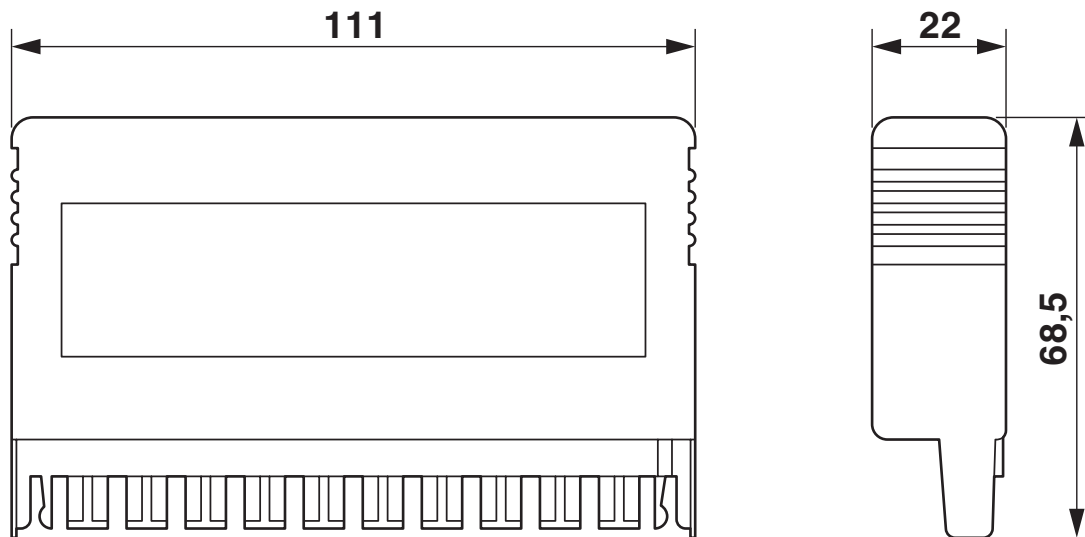


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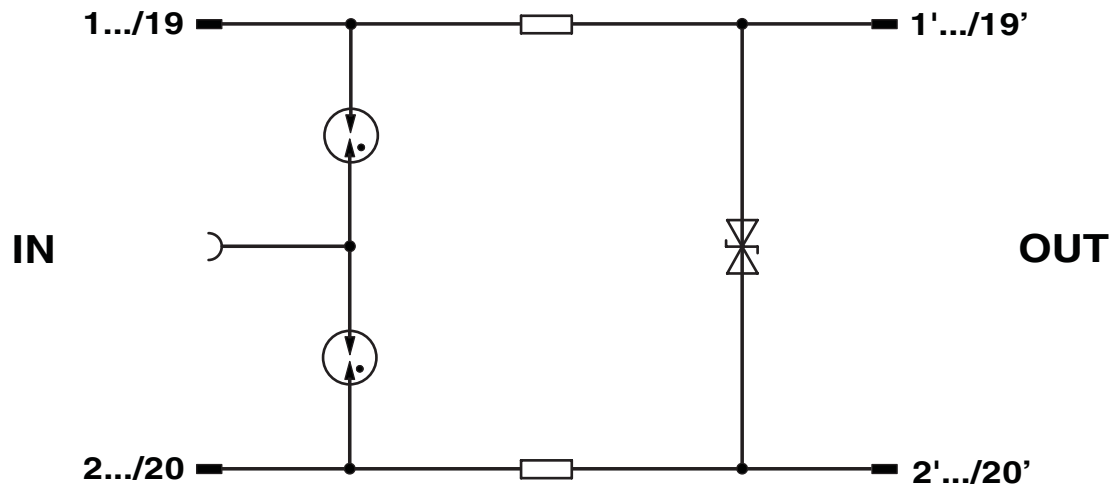
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## Drawings

Dimensional drawing



Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27171501
ECLASS-15.0	27171501

### ETIM

ETIM 10.0	EC001466
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### UNSPSC

UNSPSC 21.0	39121600
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## 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

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