

# CT 10-18FS+F/PE-24 - Surge protection plug



2807926

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LSA-PLUS plug (COMTRAB CT 10) with coarse/fine surge protection for 18 signal lines - GND and GND - PE coarse protection. 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	2807926
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL03
Product key	CL3212
GTIN	4017918075408
Weight per piece (including packing)	130.7 g
Weight per piece (excluding packing)	106.51 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

### Insulation characteristics

Overvoltage category	III
Pollution degree	2

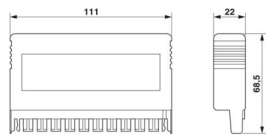
### Electrical properties

Nominal voltage $U_N$	24 V DC
	24 V AC

### 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	V-0
Housing material	PBT

### Mechanical properties

#### Mechanical data

Open side panel	No
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## Protective circuit

Direction of action	Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground
Nominal voltage $U_N$	24 V DC
	24 V AC
Maximum continuous operating voltage $U_C$	40 V DC
	28 V AC
Rated current	1.5 A AC (75 °C)
	350 mA DC (75 °C)
Operating effective current $I_C$ at $U_C$	$\leq 5 \mu\text{A}$ (18x)
Protective conductor current $I_{PE}$	$\leq 1 \mu\text{A}$ (19x)
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-line)	119 A (per path)
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-ground)	5 kA (per path)
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (signal ground-earth)	5 kA (per path)
Pulse discharge current $I_{imp}$ (10/350) $\mu\text{s}$ (line-earth)	2.5 kA
Pulse discharge current $I_{imp}$ (10/350) $\mu\text{s}$ (signal ground-earth)	2.5 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)	119 A (per path)
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (line-earth)	5 kA (per path)
Nominal pulse current $I_{an}$ (10/1000) $\mu\text{s}$ (line-signal ground)	23 A
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-signal ground) spike	$\leq 70 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-signal ground) static	$\leq 60 \text{ V}$
Residual voltage at $I_n$ (conductor-ground)	$\leq 30 \text{ V}$
Residual voltage at $I_n$ (line-signal ground)	$\leq 85 \text{ V}$
Residual voltage with $I_{an}$ (10/1000) $\mu\text{s}$ (line-signal ground)	$\leq 65 \text{ V}$
Response time $t_A$ (line-earth)	$\leq 100 \text{ ns}$
Response time $t_A$ (line-signal ground)	$\leq 1 \text{ ns}$
Input attenuation aE, asym.	typ. 0.1 dB ( $\leq 2 \text{ MHz} / 50 \Omega$ )
	typ. 0.1 dB ( $\leq 200 \text{ kHz} / 150 \Omega$ )
	typ. 0.1 dB ( $\leq 80 \text{ kHz} / 600 \Omega$ )
Cut-off frequency $f_g$ (3 dB), asym. (signal ground) in 50 $\Omega$ system	typ. 10 MHz
Cut-off frequency $f_g$ (3 dB), asym. (signal ground) in 150 $\Omega$ system	typ. 2.5 MHz
Cut-off frequency $f_g$ (3 dB), asym. (signal ground) in 600 $\Omega$ system	typ. 650 kHz
Capacitance (line-signal ground)	typ. 1.1 nF (1 MHz)
Surge protection fault message	none
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 2.5 kA
Impulse durability (line-signal ground)	C3 - 23 A
Impulse durability (signal ground-earth)	D1 - 2.5 kA

## Environmental and real-life conditions

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## Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 75 °C
Altitude	≤ 2000 mm (amsl)

## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	VDE 0110-1
Standards/specifications	IEC 61643-21
Note	2000 + corrigendum 2001 + A1:2008, modified + A2:2012
Standards/specifications	EN 61643-21
Note	2001 + A1:2009 + A2:2013

## Mounting

Mounting type	On CT-TERMIblock and LSA-PLUS disconnect strip
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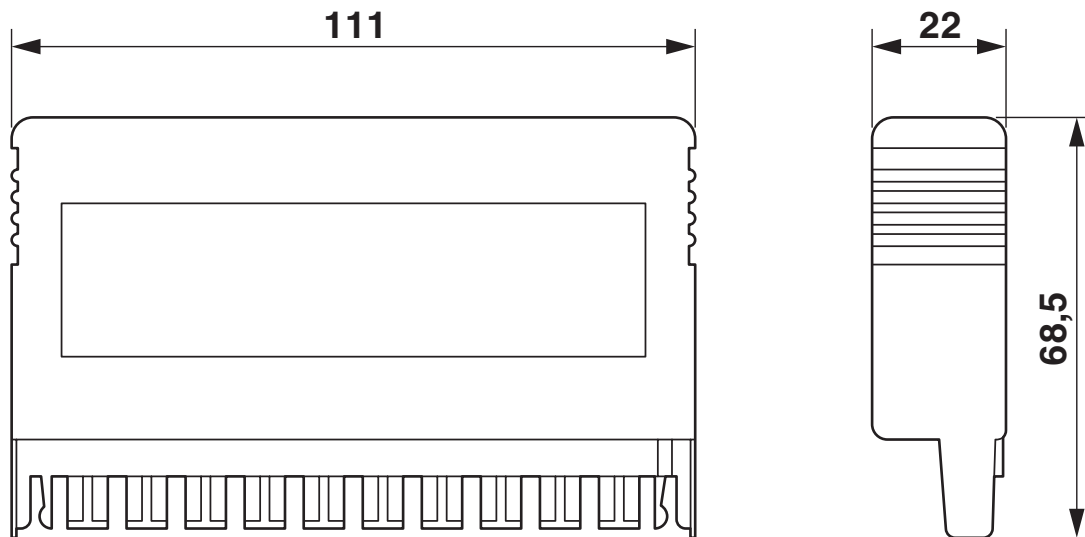
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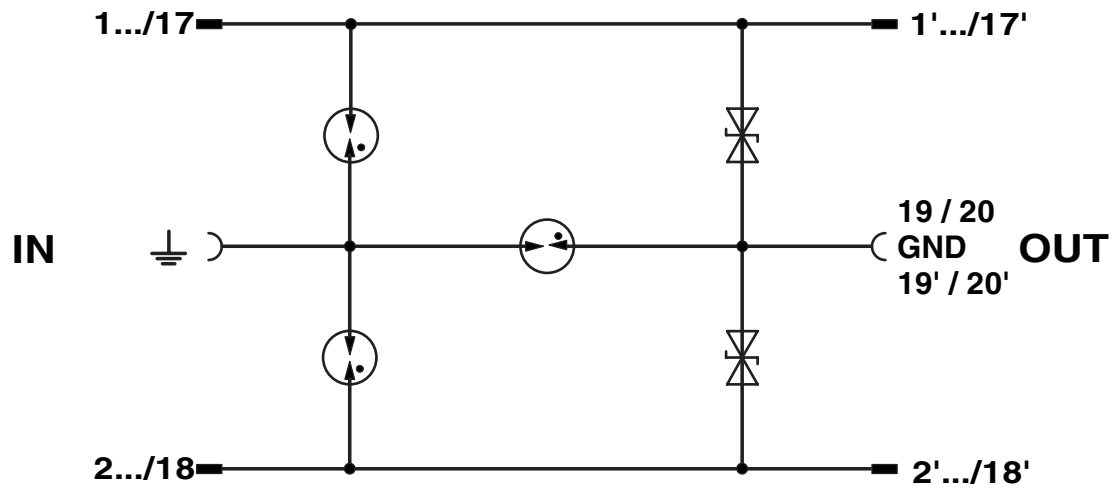
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## Drawings

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	c22a8ecc-4d94-49c7-8ab7-a4a8cc2e9e36

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