

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



2807926

<https://www.phoenixcontact.com/us/products/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
Catalog page	Page 107 (C-6-2013)
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

IEC test classification	C1
	C2
	C3
	D1
Type	LSA-PLUS module
Product type	Surge protection for MCR technology
Product family	COMTRAB
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

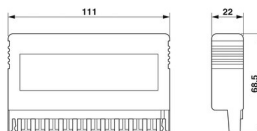
### Electrical properties

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

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
Maximum continuous 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 $U_C$	$\leq 5 \mu A$ (18x)
Residual current $I_{PE}$	$\leq 1 \mu A$ (19x)
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-line)	119 A (per path)
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-ground)	5 kA (per path)
Nominal discharge current $I_n$ (8/20) $\mu s$ (signalground-earth)	5 kA (per path)
Pulse discharge current $I_{imp}$ (10/350) $\mu s$ (line-earth)	2.5 kA
Pulse discharge current $I_{imp}$ (10/350) $\mu s$ (signalground-earth)	2.5 kA
Total discharge current $I_{total}$ (8/20) $\mu s$	10 kA
Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (line-line)	119 A (per path)
Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (line-earth)	5 kA (per path)
Nominal pulse current $I_{an}$ (10/1000) $\mu s$ (line-signalground)	23 A
Output voltage limitation at 1 kV/ $\mu s$ (line-earth) spike	$\leq 650 V$
Output voltage limitation at 1 kV/ $\mu s$ (line-signalground) spike	$\leq 70 V$
Output voltage limitation at 1 kV/ $\mu s$ (line-signalground) static	$\leq 60 V$
Residual voltage at $I_n$ (conductor-ground)	$\leq 30 V$
Residual voltage at $I_n$ (line-signalground)	$\leq 85 V$
Residual voltage with $I_{an}$ (10/1000) $\mu s$ (line-signalground)	$\leq 65 V$
Response time $t_A$ (line-earth)	$\leq 100 ns$
Response time $t_A$ (line-signalground)	$\leq 1 ns$
Input attenuation aE, asym.	typ. 0.1 dB ( $\leq 2 MHz / 50 \Omega$ )
	typ. 0.1 dB ( $\leq 200 kHz / 150 \Omega$ )
	typ. 0.1 dB ( $\leq 80 kHz / 600 \Omega$ )
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
Capacity (line-signalground)	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-signalground)	C3 - 23 A
Impulse durability (signalground-earth)	D1 - 2.5 kA

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
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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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# CT 10-18FS+F/PE-24 - Surge protection plug

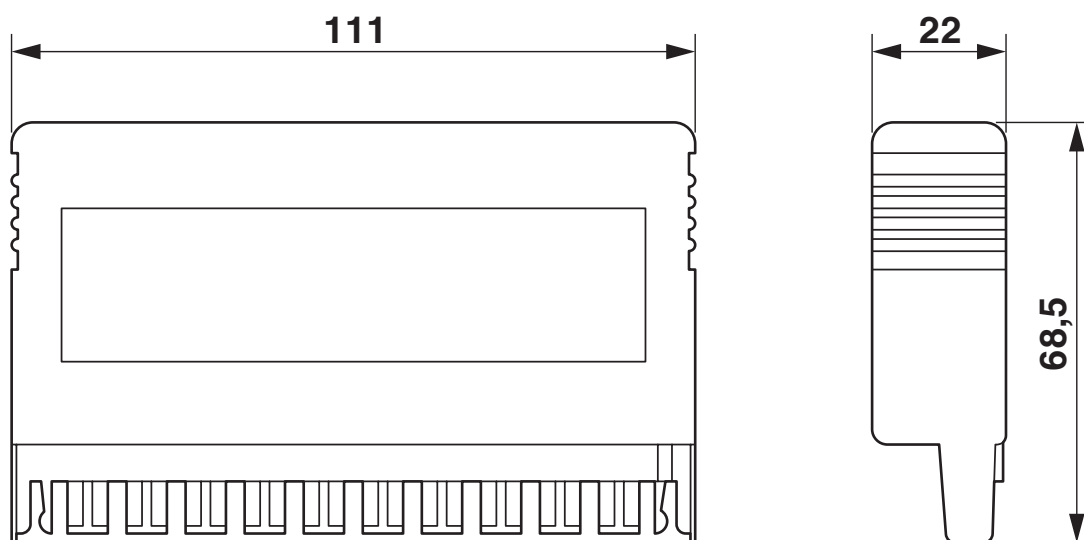
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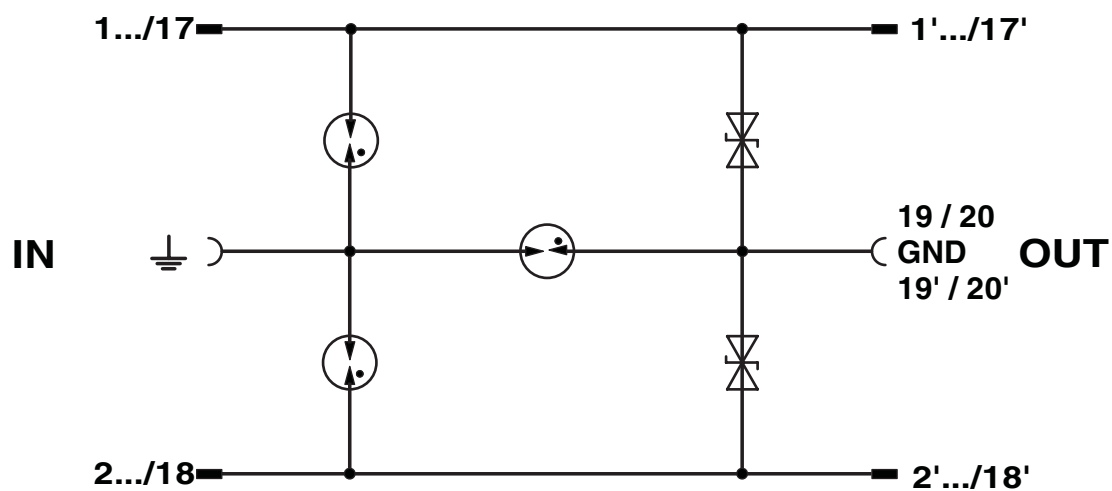


## Drawings

Dimensional drawing



Circuit diagram



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



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2807926>



**EAC**

Approval ID: RU C-DE.\*09.B.00169

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## Classifications

### ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171501

### ETIM

ETIM 8.0	EC000943
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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## Mandatory accessories

### CT 10-TL - Disconnect strip

2765356

<https://www.phoenixcontact.com/us/products/2765356>



LSA-PLUS disconnect strip to hold the CTM and CT 10 protection modules.  
Version: 10 double conductors, dimension A: 124 mm.

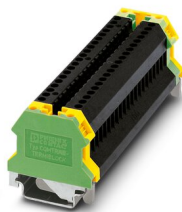
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## Accessories

### CT-TERMIBLOCK 10 DA - Screw termination block

0441711

<https://www.phoenixcontact.com/us/products/0441711>



Screw termination block with disconnect contacts for accommodating protective plugs CT and CTM. Use in MCR and telecommunications systems. Design: 10 double wires

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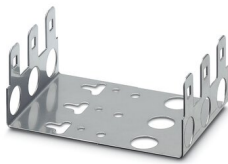


## CT 10-MB/ 3 - Mounting clip

2765372

<https://www.phoenixcontact.com/us/products/2765372>

Mounting clip, for holding 3 disconnect or ground wire strips. Version: 10 double conductors, dimensions: A 104.5 mm, B 65 mm.



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## SSA 3-6 - Shield connection

2839295

<https://www.phoenixcontact.com/us/products/2839295>

Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable: 200 mm, 1 mm<sup>2</sup>, color: black



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## SSA 5-10 - Shield connection

2839512

<https://www.phoenixcontact.com/us/products/2839512>



Shield fast connection for 5 ... 10 mm cable diameter. Potential connecting cable:  
200 mm, 1 mm<sup>2</sup>, color: black

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