

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

- For use with CT-TERMIBLOCK and with LSA-PLUS and LSA-PROFIL disconnect and control strips
- Multi-position, plug-in modular design
- Applications include systems with higher signal voltages
- Combined protective circuits
- Protection modules must be inserted in the correct direction



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 075408
GTIN	4017918075408

### Technical data

#### Dimensions

Height	22 mm
Width	111 mm
Depth	68.5 mm

#### Ambient conditions

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

#### General

Housing material	PBT
Flammability rating according to UL 94	V-0

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## Technical data

### General

Color	jet black RAL 9005
Standards for clearances and creepage distances	VDE 0110-1
Mounting type	On CT-TERMIBLOCK and LSA-PLUS disconnect strip
Type	LSA-PLUS module
Direction of action	Line-Signal Ground/Shield & Signal Ground/Shield-Earth Ground
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00

### Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage $U_N$	24 V DC
	24 V AC
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 $U_C$	$\leq 5 \mu\text{A}$ (18x)
Residual 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-earth)	5 kA (per path)
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (signalground-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) $\mu\text{s}$ (signalground-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-signalground)	23 A
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-earth) spike	$\leq 650$ V
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-signalground) spike	$\leq 70$ V
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-signalground) static	$\leq 60$ V
Residual voltage at $I_n$ (line-earth)	$\leq 30$ V
Residual voltage at $I_n$ (line-signalground)	$\leq 85$ V
Residual voltage with $I_{an}$ (10/1000) $\mu\text{s}$ (line-signalground)	$\leq 65$ V
Response time $t_A$ (line-signalground)	$\leq 1$ ns
Response time $t_A$ (line-earth)	$\leq 100$ 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 $\Omega$ )

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## Technical data

### Protective circuit

Cut-off frequency fg (3 dB), asym. (GND) in 50 Ohm system	typ. 10 MHz
Cut-off frequency fg (3 dB), asym. (GND) in 150 Ohm system	typ. 2.5 MHz
Cut-off frequency fg (3 dB), asym. (GND) in 600 Ohm 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

### Connection data

Connection method	can be plugged into COMTRAB-TERMIBLOCK and LSA-PLUS disconnect and switching strips
Connection method IN	COMTRAB plug-in system
Connection method OUT	COMTRAB plug-in system

### Standards and Regulations

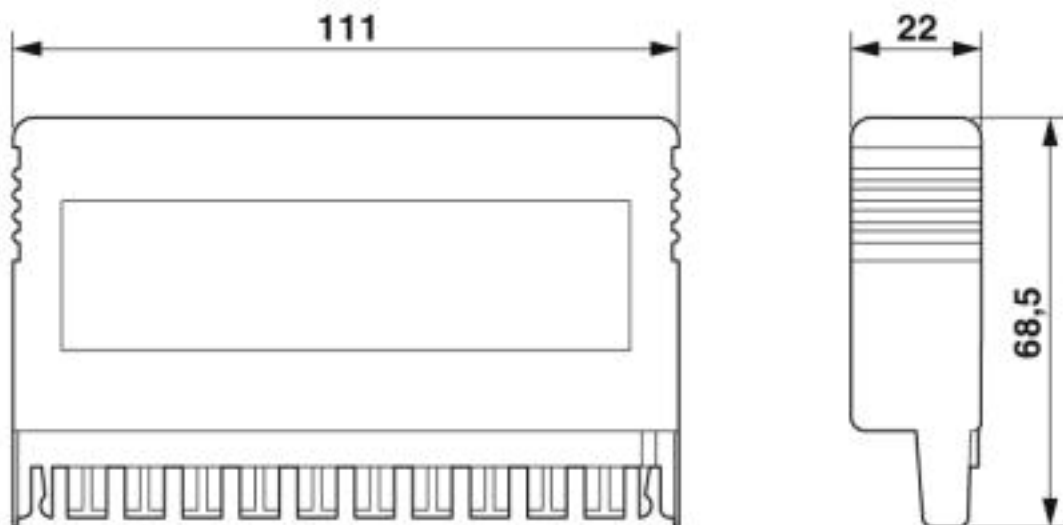
Standards/specifications	IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012
	EN 61643-21 2001 + A1:2009 + A2:2013

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

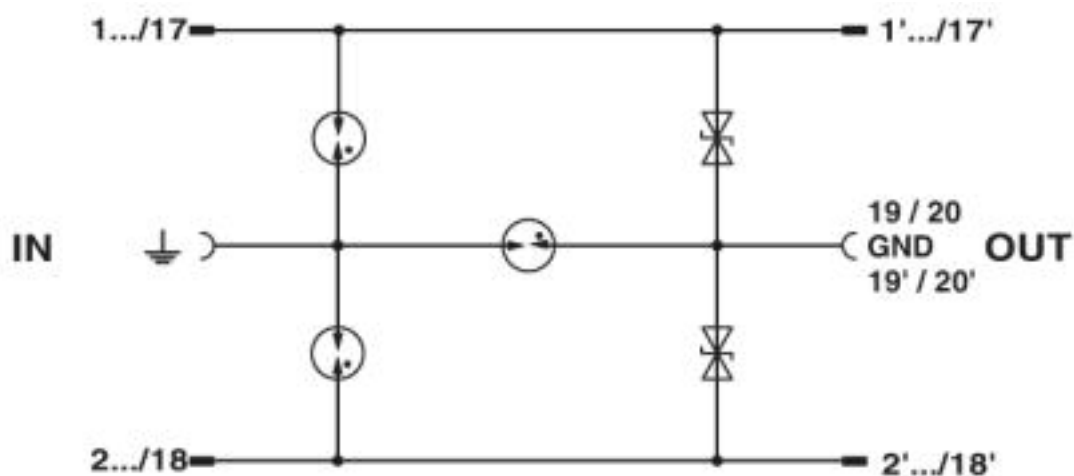
## Drawings

Dimensional drawing



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Circuit diagram



### Classifications

eCl@ss

eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943
ETIM 6.0	EC000943
ETIM 7.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620

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## Classifications

### UNSPSC

UNSPSC 21.0	39121620
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## Approvals

### Approvals

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### Approvals

EAC

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Ex Approvals

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## Approval details

EAC		RU C- DE.A*30.B01561
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## Accessories

### Accessories

#### Screw termination block

Screw termination block - CT-TERMIBLOCK 10 DA - 0441711



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

### Necessary add-on products

Disconnect strip - CT 10-TL - 2765356



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

## Additional products

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### Accessories

#### Mounting clip - CT 10-MB/ 3 - 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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#### Mounting clip - CT 10-MB/10 - 2765385



Mounting clip, for holding 10 disconnect or ground wire strips. Version: 10 double conductors, dimensions: A 104.5 mm, dimensions B 245.5 mm

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#### Cable feed-through sleeve - CT-KDT - 2765518



Cable bush for assembly troughs, for protection of the lines guided through the laminated frame

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#### Shield connection - SSA 3-6 - 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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#### Shield connection - SSA 5-10 - 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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