

## Surge protection plug - CT 10-18S+F/PE-24 - 2807913

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LSA-PLUS plug (COMTRAB CT 10) with surge voltage fine protection for 18 signal lines - GND and coarse protection GND - PE. Nominal voltage: 24 V DC/AC. Design: 10 double wires

### Product Features

- ✓ 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
- ✓ Protection modules must be inserted in the correct direction
- ✓ Combined protective circuits



### Key commercial data

Packing unit	1 pc
GTIN	 4 017918 075392
Weight per Piece (excluding packing)	99.8 GRM
Custom tariff number	85363010
Country of origin	Germany

### Technical data

#### Dimensions

Height	22 mm
Width	111 mm
Depth	68.5 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 75 °C
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### Technical data

#### Ambient conditions

Degree of protection	IP20
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#### General

Housing material	PBT
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	VDE 0110-1
	IEC 60664-1
Surge voltage category	II
Pollution degree	2
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
Nominal voltage $U_N$	24 V DC
Maximum continuous operating voltage $U_C$	40 V DC
	28 V AC
Maximum continuous voltage $U_C$ (wire-GND)	40 V DC
	28 V AC
Nominal current $I_N$	1.5 A (75°C)
Operating effective current $I_C$ at $U_C$	$\leq 5 \mu\text{A}$ (a,b-GND)
Residual current $I_{PE}$	$\leq 1 \mu\text{A}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Earth)	119 A
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-GND)	119 A
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (GND-Ground)	5 kA
Total surge current (8/20) $\mu\text{s}$	5 kA
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (Core-Earth)	119 A (25 °C)
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (Core-GND)	119 A (25 °C)
Nominal pulse current $I_{an}$ (10/1000) $\mu\text{s}$ (Core-GND)	23 A (25 °C)
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Earth) spike	$\leq 750 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-GND) spike	$\leq 70 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Earth) static	$\leq 750 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-GND) static	$\leq 60 \text{ V}$

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## Technical data

### Protective circuit

Residual voltage at In, (conductor-GND)	≤ 85 V
Residual voltage with I <sub>an</sub> (10/1000)μs (conductor-GND)	≤ 65 V
Response time t <sub>A</sub> (Core-Earth)	≤ 1 ns
	≤ 100 ns
Input attenuation a <sub>E</sub> , asym.	0.1 dB (Typ. up to 1 MHz / 50 Ω)
	0.1 dB (Typ. up to 200 kHz / 150 Ω)
	0.1 dB (Typ. up to 70 kHz / 600 Ω)
Cut-off frequency f <sub>g</sub> (3 dB), asym. (GND) in 50 Ohm system	7 MHz (typ.)
Cut-off frequency f <sub>g</sub> (3 dB), asym. (GND) in 150 Ohm system	2.5 MHz (typ.)
Cut-off frequency f <sub>g</sub> (3 dB), asym. (GND) in 600 Ohm system	500 kHz (typ.)
Capacity (Core-GND)	1.1 nF (f=1 MHz / V <sub>R</sub> = 0 V)
Capacity (Core-Earth)	1 pF
Surge protection fault message	None

### Connection data

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

### Standards and Regulations

Standards/regulations	IEC 61643-21
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## Classifications

### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807

### ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

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## Classifications

### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Approvals

### Approvals

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Approvals

GOST

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Ex Approvals

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Approvals submitted

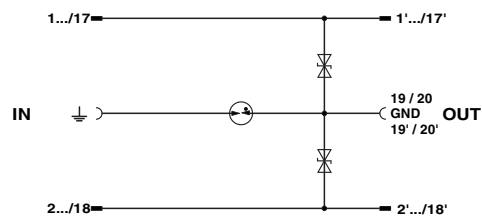
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### Approval details



## Drawings

Circuit diagram



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Dimensioned drawing

