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## 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.

### Why buy this product

- 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 STK
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	$\leq 650 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-signalground) spike	$\leq 70 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-signalground) static	$\leq 60 \text{ V}$
Residual voltage at $I_n$ (line-earth)	$\leq 30 \text{ V}$
Residual voltage at $I_n$ (line-signalground)	$\leq 85 \text{ V}$
Residual voltage with $I_{an}$ (10/1000) $\mu\text{s}$ (line-signalground)	$\leq 65 \text{ V}$
Response time $t_A$ (line-signalground)	$\leq 1 \text{ ns}$
Response time $t_A$ (line-earth)	$\leq 100 \text{ ns}$
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 ( $\leq 80 \text{ kHz} / 600 \Omega$ )

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## Technical data

### Protective circuit

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

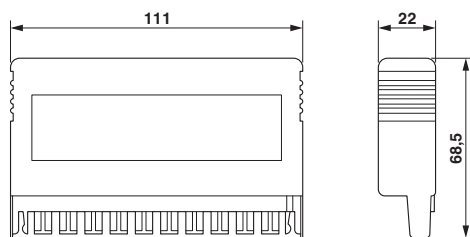
Standards/specifications	IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012
	EN 61643-21 2001 + A1:2009 + A2:2013

### Environmental Product Compliance

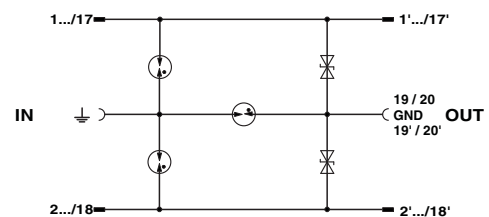
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings

Dimensional drawing



Circuit diagram



## Approvals

Approvals

Approvals

EAC

## Surge protection plug - CT 10-18FS+F/PE-24 - 2807926

### Approvals

Ex Approvals

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#### Approval details

EAC



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