



**THE DATASHEET OF**  
**2807939**



## Surge protection plug - CT 10-18FSR+F/PE-24 - 2807939

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LSA-PLUS plug (COMTRAB CT 10) with surge voltage coarse and fine protection and decoupling resistance 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
Weight per Piece (excluding packing)	134.5 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
Degree of protection	IP20

#### General

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### Technical data

#### General

Housing material	PBT
Inflammability class according to UL 94	V0
Color	black
Standards for air 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
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 $I_N$	140 mA (25 °C)
Operating effective current $I_C$ at $U_C$	$\leq 5 \mu\text{A}$ (18x)
Residual current $I_{PE}$	$\leq 1 \mu\text{A}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Core)	5 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (Core-Earth)	5 kA
Total surge current (8/20) $\mu\text{s}$	10 kA
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$	5 kA
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Earth) spike	$\leq 60 \text{ V}$ (a, b)
Output voltage limitation at 1 kV/ $\mu\text{s}$ (Core-Earth) static	$\leq 650 \text{ V}$
Residual voltage at $I_n$ , (conductor-conductor)	$\leq 85 \text{ V}$ (a-b)
Residual voltage at $I_n$ , (conductor-GND)	$\leq 85 \text{ V}$
Response time $t_A$ (Core-Core)	$\leq 1 \text{ ns}$ (a-b)
Response time $t_A$ (Core-Earth)	$\leq 100 \text{ ns}$ (a, b)
Input attenuation aE, sym.	1.8 dB (Typ. up to 1 MHz / 50 $\Omega$ )
	0.6 dB (Typ. up to 400 kHz / 150 $\Omega$ )
	0.2 dB (Typ. up to 60 kHz / 600 $\Omega$ )
Cut-off frequency $f_g$ (3 dB), sym. in 50 Ohm system	6 MHz (typ.)
Cut-off frequency $f_g$ (3 dB), sym. in 150 Ohm system	2.5 MHz (typ.)

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### Technical data

#### Protective circuit

Cut-off frequency fg (3 dB), sym. in 600 Ohm system	750 kHz (typ.)
Capacity (Core-Earth)	1.1 nF (1 MHz a-b)
Resistance in series	22 Ω ±10 % (a-b)
	22 Ω ±10 % (a, b)
Surge protection fault message	None
Max. required back-up fuse	145 mA
Surge current resistance (conductor-ground)	D1 - 2,5 kA
Surge current resistance (GND-Ground)	D1 - 2.5 kA

#### 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
eCl@ss 8.0	27130807

#### ETIM

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

#### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610

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## Classifications

### UNSPSC

UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Approvals

### Approvals

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### Approvals

### GOST

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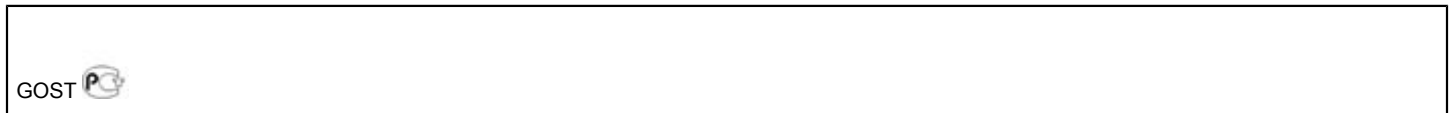
### Ex Approvals

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### Approvals submitted

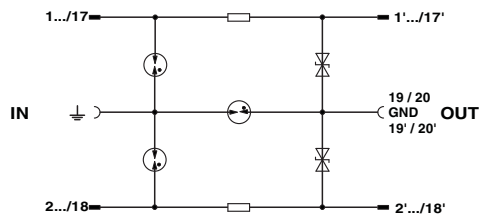
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## Approval details



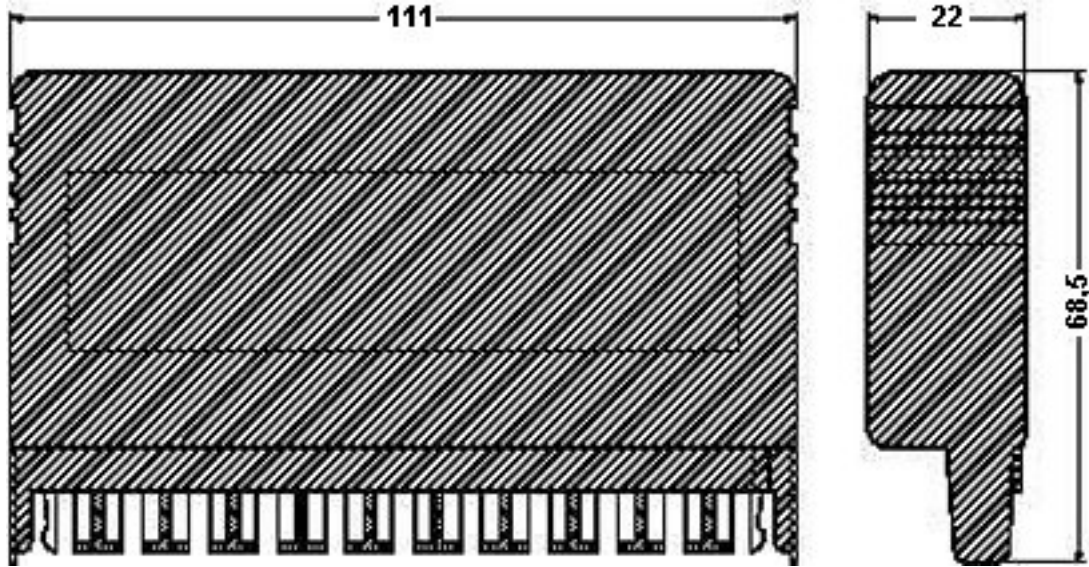
## Drawings

Circuit diagram



# Surge protection plug - CT 10-18FSR+F/PE-24 - 2807939

Dimensioned drawing



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