

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	$\leq 5 \mu A$ (a,b-GND)
Residual current I_{PE}	$\leq 1 \mu A$
Nominal discharge current I_n (8/20) μs (Core-Earth)	119 A
Nominal discharge current I_n (8/20) μs (Core-GND)	119 A
Nominal discharge current I_n (8/20) μs (GND-Ground)	5 kA
Total surge current (8/20) μs	5 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	119 A (25 °C)
Max. discharge current I_{max} (8/20) μs maximum (Core-GND)	119 A (25 °C)
Nominal pulse current I_{an} (10/1000) μs (Core-GND)	23 A (25 °C)
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	$\leq 750 V$
Output voltage limitation at 1 kV/ μs (Core-GND) spike	$\leq 70 V$
Output voltage limitation at 1 kV/ μs (Core-Earth) static	$\leq 750 V$
Output voltage limitation at 1 kV/ μs (Core-GND) static	$\leq 60 V$

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Protective circuit

Residual voltage at In, (conductor-GND)	$\leq 85 \text{ V}$
Residual voltage with I _{an} (10/1000)μs (conductor-GND)	$\leq 65 \text{ V}$
Response time t _A (Core-Earth)	$\leq 1 \text{ ns}$
	$\leq 100 \text{ ns}$
Input attenuation a _E , 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 _g (3 dB), asym. (GND) in 50 Ohm system	7 MHz (typ.)
Cut-off frequency f _g (3 dB), asym. (GND) in 150 Ohm system	2.5 MHz (typ.)
Cut-off frequency f _g (3 dB), asym. (GND) in 600 Ohm system	500 kHz (typ.)
Capacity (Core-GND)	1.1 nF (f=1 MHz / V _R = 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

Approvals

GOST

Ex Approvals

Approvals submitted

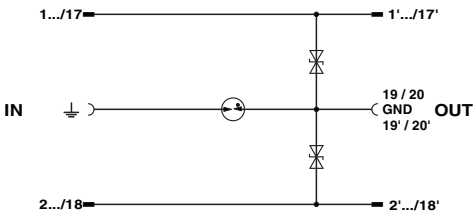
Approval details

GOST

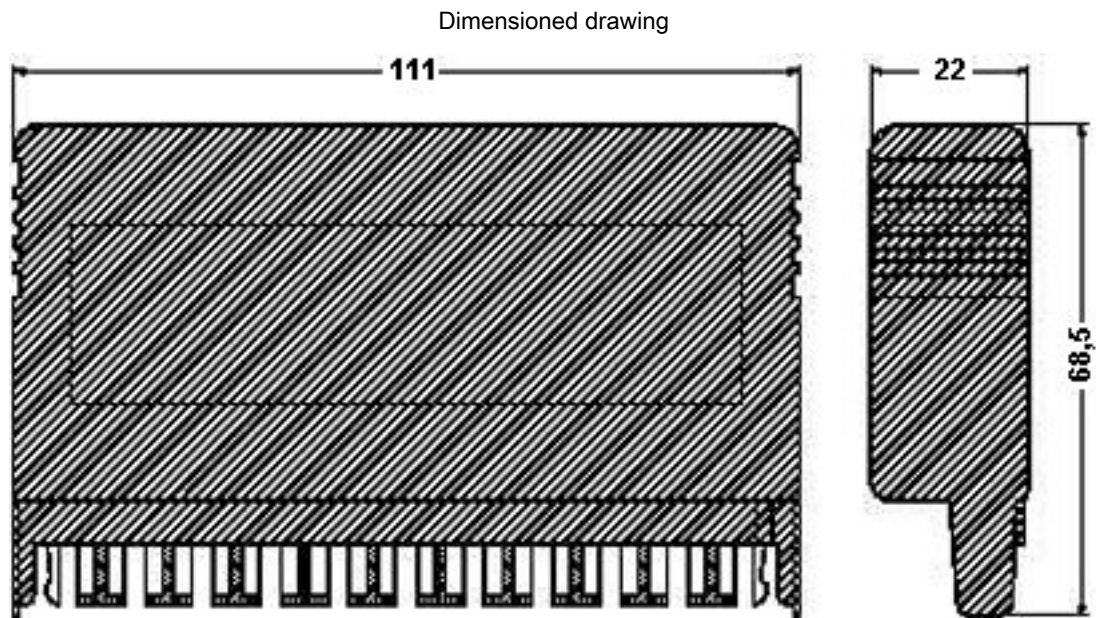


Drawings

Circuit diagram



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