

Surge protection plug - CT 10-2PE/FS-24 - 2807955

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LSA-PLUS plug (COMTRAB CT 10) with coarse/fine surge protection, for 10 floating signal circuits. 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
- Protection modules must be inserted in the correct direction
- Combined protective circuits



Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 104740
GTIN	4017918104740

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

Housing material	PBT
Flammability rating according to UL 94	V0
Color	black
Standards for clearances and creepage distances	VDE 0110-1

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Technical data

General

	IEC 60664-1
Mounting type	On CT-TERMIBLOCK and LSA-PLUS disconnect strip
Type	LSA-PLUS module
Direction of action	Line-Line & Line-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 voltage U_C	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)
Residual current I_{PE}	$\leq 1 \mu\text{A}$ (per path)
Nominal discharge current I_n (8/20) μs (line-line)	119 A (25 °C)
Nominal discharge current I_n (8/20) μs (line-earth)	5 kA
Total surge current (8/20) μs	10 kA
Max. discharge current I_{max} (8/20) μs maximum (line-line)	119 A (25 °C)
Max. discharge current I_{max} (8/20) μs maximum (line-earth)	5 kA
Nominal pulse current I_{an} (10/1000) μs (line-line)	23 A (25 °C)
Output voltage limitation at 1 kV/ μs (line-line) spike	≤ 70 V
Output voltage limitation at 1 kV/ μs (line-earth) spike	≤ 650 V
Output voltage limitation at 1 kV/ μs (line-line) static	≤ 60 V
Output voltage limitation at 1 kV/ μs (line-earth) static	≤ 650 V
Residual voltage at I_n (line-line)	≤ 85 V
Residual voltage with I_{an} (10/1000) μs (line-line)	≤ 65 V
Response time t_A (line-line)	≤ 1 ns
Response time t_A (line-earth)	≤ 100 ns
Input attenuation aE, sym.	0.1 dB (Typ. up to 2 MHz / 50 Ω)
	0.1 dB (Typ. up to 1 MHz / 150 Ω)
	0.1 dB (Typ. up to 400 kHz / 600 Ω)
Cut-off frequency f_g (3 dB), sym. in 50 Ohm system	10 MHz (typ.)
Cut-off frequency f_g (3 dB), sym. in 150 Ohm system	4 MHz (typ.)
Cut-off frequency f_g (3 dB), sym. in 600 Ohm system	1 MHz (typ.)
Capacity (line-line)	1.1 nF ($f=1$ MHz / $V_R=0$ V)
Capacity (line-earth)	1 pF
Surge protection fault message	none

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Technical data

Protective circuit

Impulse durability (line-earth)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 100 A
	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

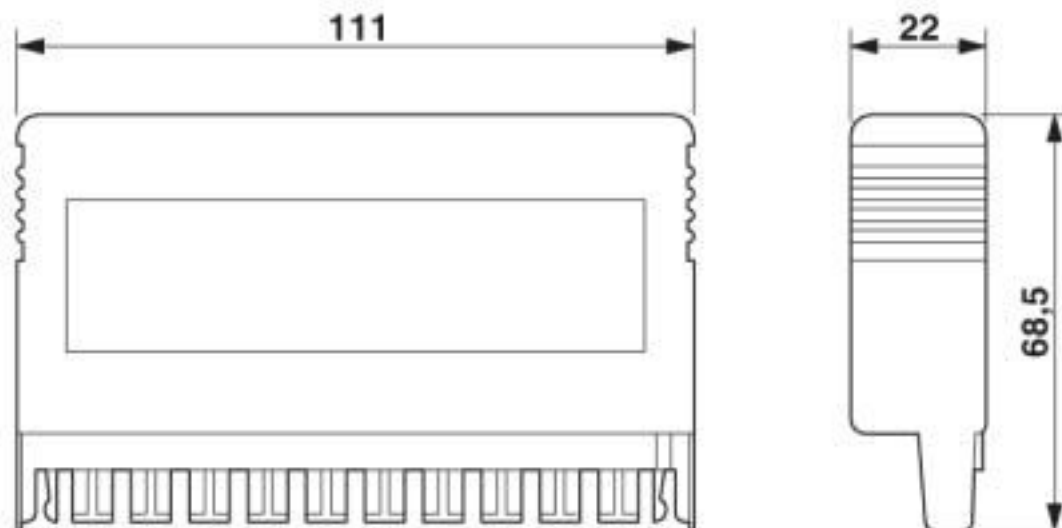
Standards/regulations	IEC 61643-21
Standards/specifications	IEC 61643-21 2000

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

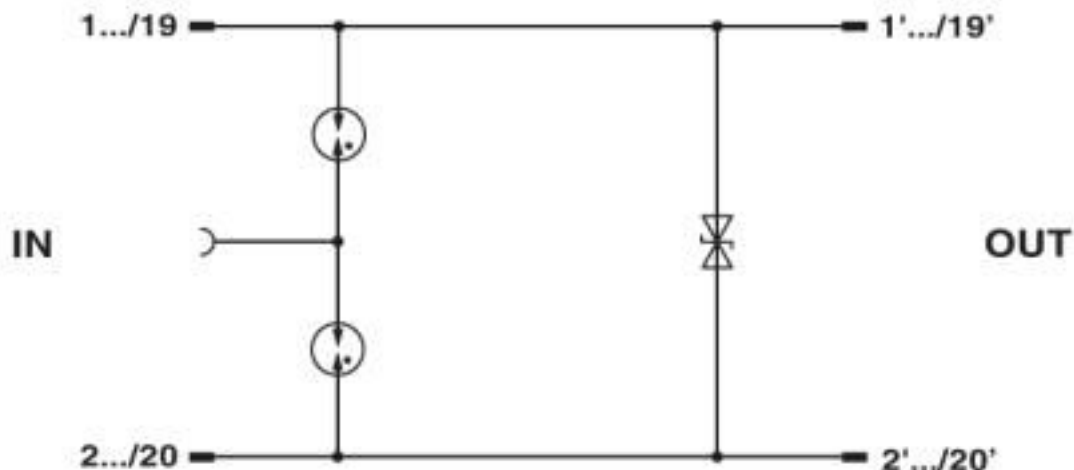
Drawings

Dimensional drawing



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Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27130807
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

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Classifications

UNSPSC

UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approval details

EAC		EAC-Zulassung
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EAC		RU C- DE.*09.B.00169
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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.

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Accessories

Additional products

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.

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

Cable feed-through sleeve - CT-KDT - 2765518



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

Shield connection - SSA 3-6 - 2839295



Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable: 200 mm, 1 mm², color: black

Shield connection - SSA 5-10 - 2839512



Shield fast connection for 5 ... 10 mm cable diameter. Potential connecting cable: 200 mm, 1 mm², color: black

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