

CT 10-2PE/FSR-24 - Surge protection plug



2807968

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LSA-PLUS plug (COMTRAB CT 10) with coarse/fine surge protection and decoupling resistor for 10 floating signal circuits. Nominal voltage: 24 V DC. Version: 10 double wires.

Your advantages

- Space-saving due to compact design
- Flexible fields of application with modular protective plug
- Can be used in LSA-PLUS disconnect and control strips or CT-TERMIBLOCK via adapted connection technology

Commercial data

Item number	2807968
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL03
Product key	CL3212
Catalog page	Page 107 (C-6-2013)
GTIN	4017918104757
Weight per piece (including packing)	127 g
Weight per piece (excluding packing)	127 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

Product properties

Product type	Surge protection for MCR technology
Product family	COMTRAB
IEC test classification	C1
	C2
	C3
	D1
Type	LSA-PLUS module
Surge protection fault message	none
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00
Wire pairs per module	10

Electrical properties

Nominal voltage U_N	24 V DC
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Connection data

Connection method	can be plugged into COMTRAB-TERMIBLOCK and LSA-PLUS disconnect and switching strips
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Dimensions

Dimensional drawing	
Width	111 mm
Height	22 mm
Depth	68.5 mm

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V0
Housing material	PBT

Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Direction of action	Line-Line & Line-Earth Ground
Maximum continuous voltage U_C	40 V DC

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	28 V AC
Rated current	200 mA (25 °C)
Operating effective current I_C at U_C	$\leq 5 \mu A$ (a-b)
Residual current I_{PE}	$\leq 1 \mu A$ (per path)
Nominal discharge current I_n (8/20) μs (line-line)	5 kA
Nominal discharge current I_n (8/20) μs (line-ground)	5 kA
Total discharge current I_{total} (8/20) μs	10 kA
Max. discharge current I_{max} (8/20) μs maximum (line-line)	5 kA
Max. discharge current I_{max} (8/20) μs maximum (line-earth)	5 kA
Output voltage limitation at 1 kV/ μs (line-line) spike	$\leq 95 V$
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 650 V$
Output voltage limitation at 1 kV/ μs (line-line) static	$\leq 60 V$
Output voltage limitation at 1 kV/ μs (line-earth) static	$\leq 650 V$
Residual voltage at I_n (conductor-conductor)	$\leq 55 V$
Response time t_A (line-line)	$\leq 1 ns$
Response time t_A (line-earth)	$\leq 100 ns$
Input attenuation aE, sym.	1.5 dB (typ. up to 2 MHz / 50 Ω)
	0.6 dB (typ. up to 1 MHz / 150 Ω)
	0.2 dB (typ. up to 100 kHz / 600 Ω)
Cut-off frequency f_g (3 dB), sym. in 50 Ω system	7 MHz (typ.)
Cut-off frequency f_g (3 dB), sym. in 150 Ω system	4 MHz (typ.)
Cut-off frequency f_g (3 dB), sym. in 600 Ω system	900 kHz (typ.)
Capacity (Core-Core)	1.1 nF ($f=1 MHz / V_R=0 V$)
Capacity (Core-Earth)	1 pF (typ.)
Resistance per path	10 $\Omega \pm 10 \%$
Surge protection fault message	none
Max. required back-up fuse	200 mA
Impulse durability (line-line)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 100 A
Impulse durability (line-earth)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 100 A
	D1 - 2.5 kA

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 75 °C

Standards and regulations

Air clearances and creepage distances

Standards/regulations	VDE 0110-1 / IEC 60664-1
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Standards Information technology specification

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

Mounting

Mounting type	On CT-TERMIBLOCK and LSA-PLUS disconnect strip
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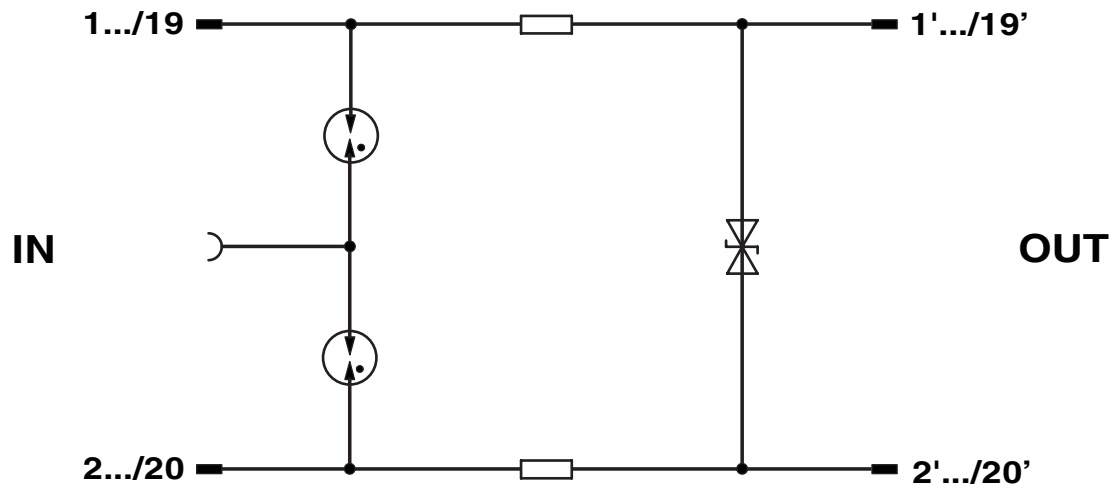
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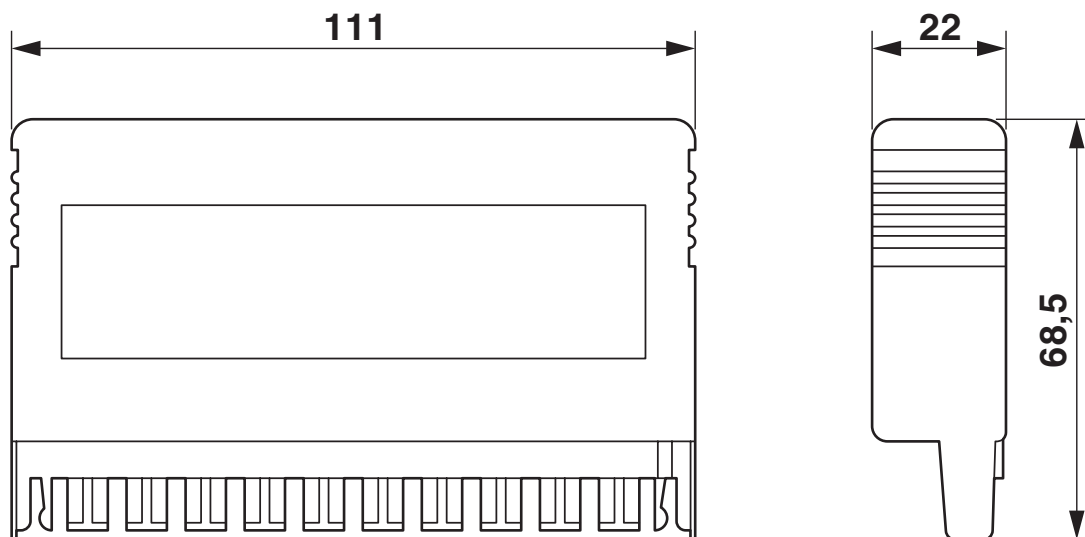


Drawings

Circuit diagram



Dimensional drawing



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Approvals

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EAC

Approval ID: EAC-Zulassung



EAC

Approval ID: RU C-DE.*09.B.00169

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Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171501

ETIM

ETIM 9.0	EC000943
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	91109fd0-e792-479b-96d0-9eff98e74837

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