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

2807968

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24 V

IEC



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
Note	Made to order (non-returnable)
Sales key	CL03
Product key	CL3212
GTIN	4017918104757
Weight per piece (including packing)	127 g
Weight per piece (excluding packing)	127 g
Customs tariff number	85363010
Country of origin	DE

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

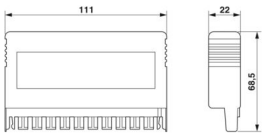
Electrical properties

Nominal voltage U_N	24 V DC

Connection data

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

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

Protective circuit

Direction of action	Line-Line & Line-Earth Ground
Nominal voltage U_N	24 V DC

Maximum continuous operating voltage U_C	40 V DC
	28 V AC
Rated current	200 mA (25 °C)
Operating effective current I_C at U_C	≤ 5 µA (a-b)
Protective conductor current I_{PE}	≤ 1 µA (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	≤ 95 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 (conductor-conductor)	≤ 55 V
Response time t_A (line-line)	≤ 1 ns
Response time t_A (line-earth)	≤ 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 fg (3 dB), sym. in 50 Ω system	7 MHz (typ.)
Cut-off frequency fg (3 dB), sym. in 150 Ω system	4 MHz (typ.)
Cut-off frequency fg (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 Ω ±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

Standards Information technology specification

Standards/regulations	IEC 61643-21
	IEC 61643-21

Air clearances and creepage distances

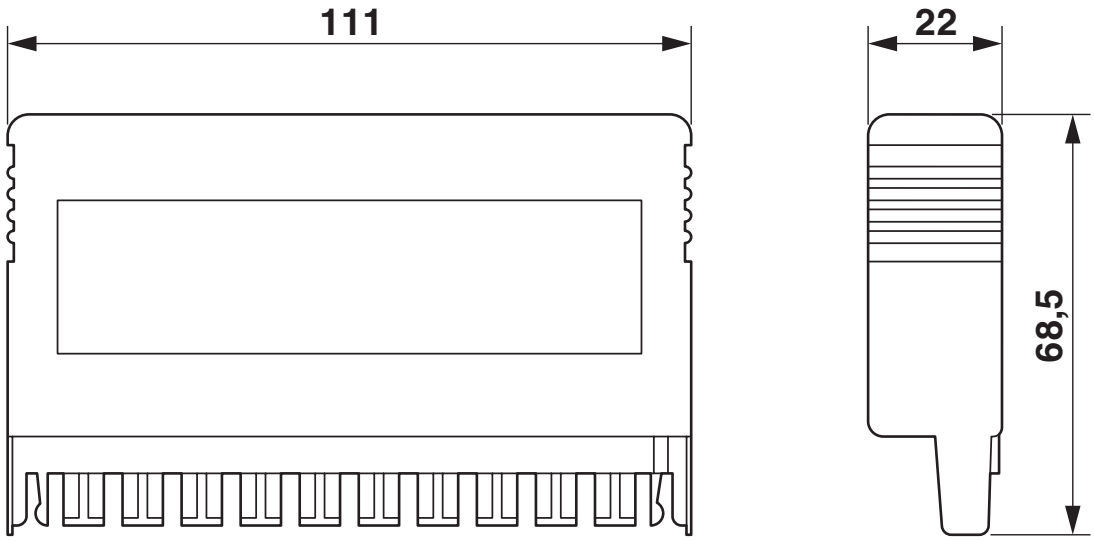
Standards/regulations	VDE 0110-1 / IEC 60664-1
Standards/specifications	IEC 61643-21
Note	2000

Mounting

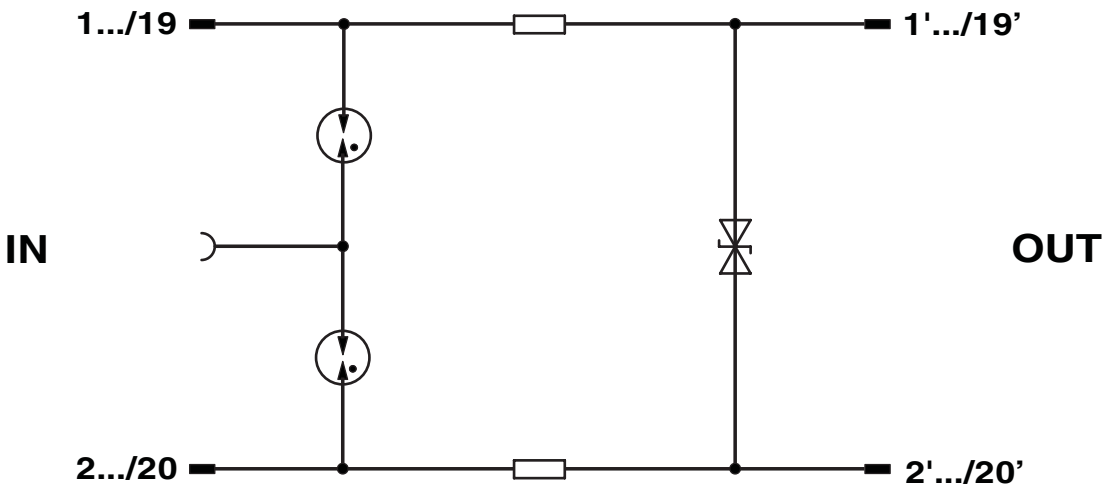
Mounting type	On CT-TERMIBLOCK and LSA-PLUS disconnect strip

Drawings

Dimensional drawing



Circuit diagram



Classifications

ECLASS

ECLASS-13.0	27171501
ECLASS-15.0	27171501

ETIM

ETIM 10.0	EC001466

UNSPSC

UNSPSC 21.0	39121600

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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