

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

Why buy this product

- ✓ 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
- ✓ Combined protective circuits
- ✓ Protection modules must be inserted in the correct direction

RoHS

24V

IP20

IEC



Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 104757
GTIN	4017918104757

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

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Technical data

General

Standards for clearances and creepage distances	VDE 0110-1
	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
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 (Core-Core)	5 kA
Nominal discharge current I_n (8/20) μs (core-earth)	5 kA
Total discharge current I_{total} (8/20) μs	10 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Core)	5 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	5 kA
Output voltage limitation at 1 kV/ μs (core-core) spike	$\leq 95 V$
Output voltage limitation at 1 kV/ μs (core-earth) spike	$\leq 650 V$
Output voltage limitation at 1 kV/ μs (core-core) static	$\leq 60 V$
Output voltage limitation at 1 kV/ μs (core-earth) static	$\leq 650 V$
Residual voltage at I_n (conductor-conductor)	$\leq 55 V$
Response time t_A (core-core)	$\leq 1 ns$
Response time t_A (core-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 Ohm system	7 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	900 kHz (typ.)
Capacity (core-core)	1.1 nF ($f=1 MHz / V_R=0 V$)
Capacity (core-earth)	1 pF (typ.)
Resistance in series	10 $\Omega \pm 10 \%$
Surge protection fault message	none
Max. required back-up fuse	200 mA

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Protective circuit

Impulse durability (conductor-conductor)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C3 - 100 A
Impulse durability (conductor-ground)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C3 - 100 A
	D1 - 2.5 kA

Connection data

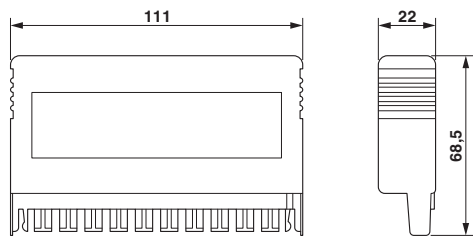
Connection method	can be plugged into COMTRAB-TERMIBLOCK and LSA-PLUS disconnect and switching strips
Connection method IN	COMTRAB plug-in system
Connection method OUT	COMTRAB plug-in system

Standards and Regulations

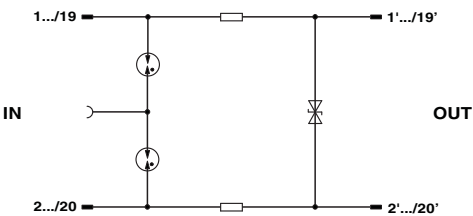
Standards/regulations	IEC 61643-21
Standards/specifications	IEC 61643-21 2000

Drawings

Dimensional drawing



Circuit diagram



Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approval details

Surge protection plug - CT 10-2PE/FSR-24 - 2807968

Approvals

EAC		RU C- DE.A*30.B01561
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EAC		EAC-Zulassung
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