

2838584

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LSA-PLUS plug (COMTRAB CTM) with protective circuit for 2-conductor signal circuits grounded on one side. Nominal voltage: 12 V DC

### 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	2838584
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CL03
Product key	CL3211
Catalog page	Page 142 (C-4-2019)
GTIN	4017918819606
Weight per piece (including packing)	10.56 g
Weight per piece (excluding packing)	10.56 g
Customs tariff number	85363010
Country of origin	DE



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### Technical data

#### Product properties

IEC test classification	B2
	C1
	C2
	C3
	D1
VDE requirement class	B2
	C1
	C2
	C3
	D1
Туре	LSA-PLUS module
Product type	Surge protection for MCR technology
Product family	COMTRAB
Number of positions	2
Surge protection fault message	none
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10
ulation characteristics	
Overvoltage category	II
Pollution degree	2

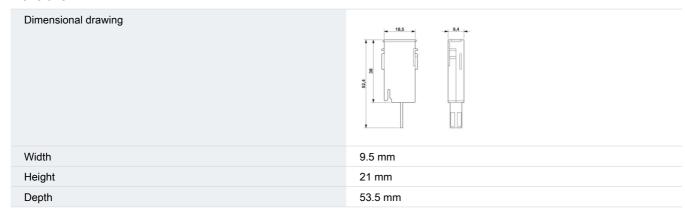
#### Electrical properties

Nominal voltage U <sub>N</sub>	2 V DC
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#### Connection data

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

#### Dimensions



#### Material specifications



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Color	black (RAL 9005)
	Copper
Flammability rating according to UL 94	V-0
Housing material	PA

#### Mechanical properties

#### Mechanical data

Open side panel	No

#### Protective circuit

Direction of action	Line-Line & Line-Earth Ground
aximum continuous voltage U <sub>C</sub>	± 15 V DC
	10 V AC
Rated current	380 mA AC (25 °C)
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 5 µA
Residual current I <sub>PE</sub>	≤ 2 µA
Nominal discharge current I <sub>n</sub> (8/20) µs (line-ground)	5 kA
Pulse discharge current I <sub>imp</sub> (10/350) µs (line-earth)	1 kA
Total discharge current I <sub>total</sub> (8/20) µs	10 kA
Total discharge current I <sub>total</sub> (10/350) µs	2.5 kA
Max. discharge current I <sub>max</sub> (8/20) µs maximum (line-earth)	10 kA (in total)
Nominal pulse current lan (10/1000) µs (line-earth)	100 A
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 28 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 22 V
Residual voltage at I <sub>n</sub> (conductor-ground)	≤ 32 V
Residual voltage with Ian (10/1000) µs (line-earth)	≤ 18 V
Voltage protection level U <sub>p</sub> (line-earth)	≤ 60 V (C2 - 10 kV/5 kA, spike)
	≤ 30 V (C3 - 7.5 kV / 100 A, spike)
Response time t <sub>A</sub> (line-earth)	≤ 1 ns
Input attenuation aE, asym.	0.3 dB (≤ 400 kHz)
Cut-off frequency fg (3 dB), asym. (PE) in 100 Ω system	1.5 MHz
Capacity (Core-Earth)	1.5 nF (f=1 MHz / V <sub>R</sub> = 0 V)
Resistance per path	3.3 Ω 10 %
Surge protection fault message	none
Impulse durability (line-earth)	C2 - 4 kV / 2 kA
	C3 - 100 A
	B2 - 4 kV / 100 A
	D1 - 1 kA
Alternating current carrying capacity (line-earth)	5 A - 1 s

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP20
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	Ambient temperature (operation)	-25 °C 75 °C		
Cto				
Sia	ndards and regulations			
	VDE requirement class	B2		
		C1		
		C2		
		C3		
		D1		
^	ir alcoronous and arconous distances			
А	ir clearances and creepage distances			
	Standards/regulations	DIN VDE 0110-1 / IEC 60664-1		
S	tandards Information technology specification			
	Standards/regulations	IEC 61643-21		
		IEC 61643-21		
	Standards/specifications	IEC 61643-21		
	Note	2000		
	e.			
MO	unting			
	Mounting type	On CT-TERMIBLOCK and LSA-PLUS disconnect strip		



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### Classifications

UNSPSC 21.0

#### **ECLASS**

	ECLASS-11.0	27130807	
	ECLASS-13.0	27171501	
ETIM			
	ETIM 9.0	EC001625	
UN	ISPSC		

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## Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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