

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	1 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

Product type	Surge protection for MCR technology
Product family	COMTRAB
IEC test classification	B2
	C1
	C2
	С3
	D1
VDE requirement class	B2
	C1
	C2
	C3
	D1
Туре	LSA-PLUS module
Number of positions	2
Surge protection fault message	none
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10
ata management status	
Article revision	09
sulation characteristics	
Overvoltage category	II
Pollution degree	2

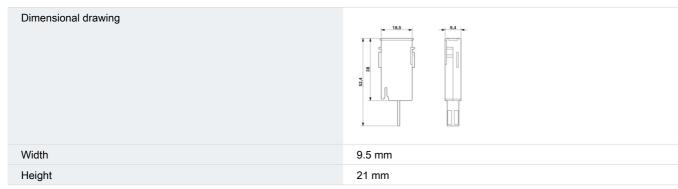
Electrical properties

Nominal voltage U _N	12 V DC

Connection data

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

Dimensions





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Depth	53.5 mm
Material specifications	
Color	black (RAL 9005)
	Copper color
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
Maximum continuous voltage U _C	± 15 V DC
	10 V AC
Rated current	380 mA AC (25 °C)
Operating effective current I_C at U_C	≤ 5 µA
Residual current I _{PE}	≤ 2 µA
Nominal discharge current I _n (8/20) µs (line-ground)	5 kA
Pulse discharge current I _{imp} (10/350) μs (line-earth)	1 kA
Total discharge current I _{total} (8/20) μs	10 kA
Total discharge current I _{total} (10/350) μs	2.5 kA
Max. discharge current I _{max} (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 _n (conductor-ground)	≤ 32 V
Residual voltage with Ian (10/1000) µs (line-earth)	≤ 18 V
Voltage protection level U_p (line-earth)	≤ 60 V (C2 - 10 kV/5 kA, spike)
	≤ 30 V (C3 - 7.5 kV / 100 A, spike)
Response time t _A (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 _R = 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

5 A - 1 s

Environmental and real-life conditions

Alternating current carrying capacity (line-earth)



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Α	mbient conditions	
	Degree of protection	IP20
	Ambient temperature (operation)	-25 °C 75 °C
Sta	ndards and regulations	
	VDE requirement class	B2
		C1
		C2
		C3
		D1
A	uir clearances and creepage distances	
	Standards/regulations	DIN VDE 0110-1 / IEC 60664-1
S	standards Information technology specification	
	Standards/regulations	IEC 61643-21
		IEC 61643-21
	Standards/specifications	IEC 61643-21
	Note	2000
Мо	unting	
	Mounting type	On CT-TERMIBLOCK and LSA-PLUS disconnect strip

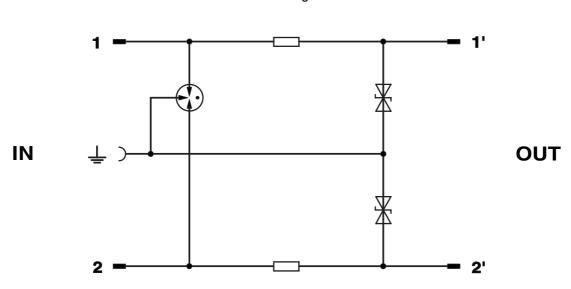


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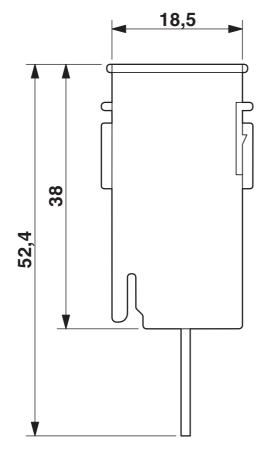


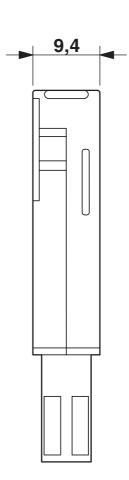
Drawings

Circuit diagram



Dimensional drawing







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Approvals

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EAC

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



UL Listed

Approval ID: FILE E 138168



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27130807
	ECLASS-13.0	27171501
ET	TIM	
	ETIM 9.0	EC000943
UN	ISPSC	

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-l
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	565ef7a0-56d3-49d7-a58b-f1ab6317feaa

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