

## Surge protection plug - CTM ISDN - 2838555

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LSA-PLUS plug (COMTRAB CTM) with protective circuit for 1 conductor pair of an ISDN So interface.

### Your advantages

- Two protective plugs are required to protect the ISDN bus
- Tailored to the ISDN bus with basic and primary multiplex connections



### Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 819583
GTIN	4017918819583
Weight per Piece (excluding packing)	9.090 g
Custom tariff number	85363010
Country of origin	Germany
Note	Made to Order (non-returnable)

### Technical data

#### Dimensions

Height	21 mm
Width	9.5 mm
Depth	53.5 mm

#### Ambient conditions

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

#### General

Housing material	PA
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## Technical data

### General

Flammability rating according to UL 94	V-0
Color	black
Standards for clearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1
Overvoltage category	II
Degree of pollution	2
Mounting type	On CT-TERMIBLOCK and LSA-PLUS disconnect strip
Type	LSA-PLUS module
Number of positions	2
Direction of action	Line-Line & Line-Earth Ground
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10

### Protective circuit

IEC test classification	B2
	C2
	C3
	D1
	C1
VDE requirement class	B2
	C2
	C3
	D1
	C1
Nominal voltage $U_N$	6 V DC
Maximum continuous voltage $U_C$	$\pm 6$ V DC
Rated current	1.5 A (25 °C)
Residual current $I_{PE}$	$\leq 2$ $\mu$ A
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-line)	350 A
Nominal discharge current $I_n$ (8/20) $\mu$ s (line-earth)	5 kA
Pulse discharge current $I_{imp}$ (10/350) $\mu$ s (line-earth)	1 kA
Total discharge current $I_{total}$ (8/20) $\mu$ s	10 kA
Total discharge current $I_{total}$ (10/350) $\mu$ s	2.5 kA
Max. discharge current $I_{max}$ (8/20) $\mu$ s maximum (line-earth)	10 kA (in total)
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (line-line)	100 A
	100 A
Output voltage limitation at 1 kV/ $\mu$ s (line-line) spike	$\leq 60$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) spike	$\leq 700$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-line) static	$\leq 15$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) static	$\leq 700$ V
Residual voltage at $I_n$ (line-line)	$\leq 32$ V
Residual voltage at $I_n$ (line-earth)	$\leq 55$ V

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## Technical data

### Protective circuit

Residual voltage with I <sub>an</sub> (10/1000) μs (line-line)	≤ 18 V
Residual voltage with I <sub>an</sub> (10/1000) μs (line-earth)	≤ 12 V
Voltage protection level U <sub>p</sub> (line-line)	≤ 35 V (C1 - 700 V/350 A)
	≤ 18 V (C3, 7.5 kV/100 A)
Voltage protection level U <sub>p</sub> (line-earth)	≤ 700 V (C2 - 10 kV/5 kA, spike)
	≤ 55 V (C2 - 10 kV/5 kA, static)
	≤ 700 V (C3 - 7.5 kV / 100 A, spike)
	≤ 12 V (C3 - 7.5 kV / 100 A, static)
Response time t <sub>A</sub> (line-line)	≤ 500 ns
Response time t <sub>A</sub> (line-earth)	≤ 100 ns
Input attenuation aE, sym.	0.3 dB (≤ 45 MHz)
Cut-off frequency f <sub>g</sub> (3 dB), sym. in 100 Ohm system	≥ 100 MHz
Capacity (line-line)	25 pF (f=1 MHz / V <sub>R</sub> = 0 V)
Surge protection fault message	none
Impulse durability (line-line)	C2 - 4 kV / 2 kA
	C3 - 100 A
	B2 - 4 kV / 100 A
Impulse durability (line-earth)	C2 - 4 kV / 2 kA
	C3 - 100 A
	B2 - 4 kV / 100 A
	D1 - 1 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
Connection technology	LSA-PLUS

### Connection, equipotential bonding

Connection method	Spring contact
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### Standards and Regulations

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

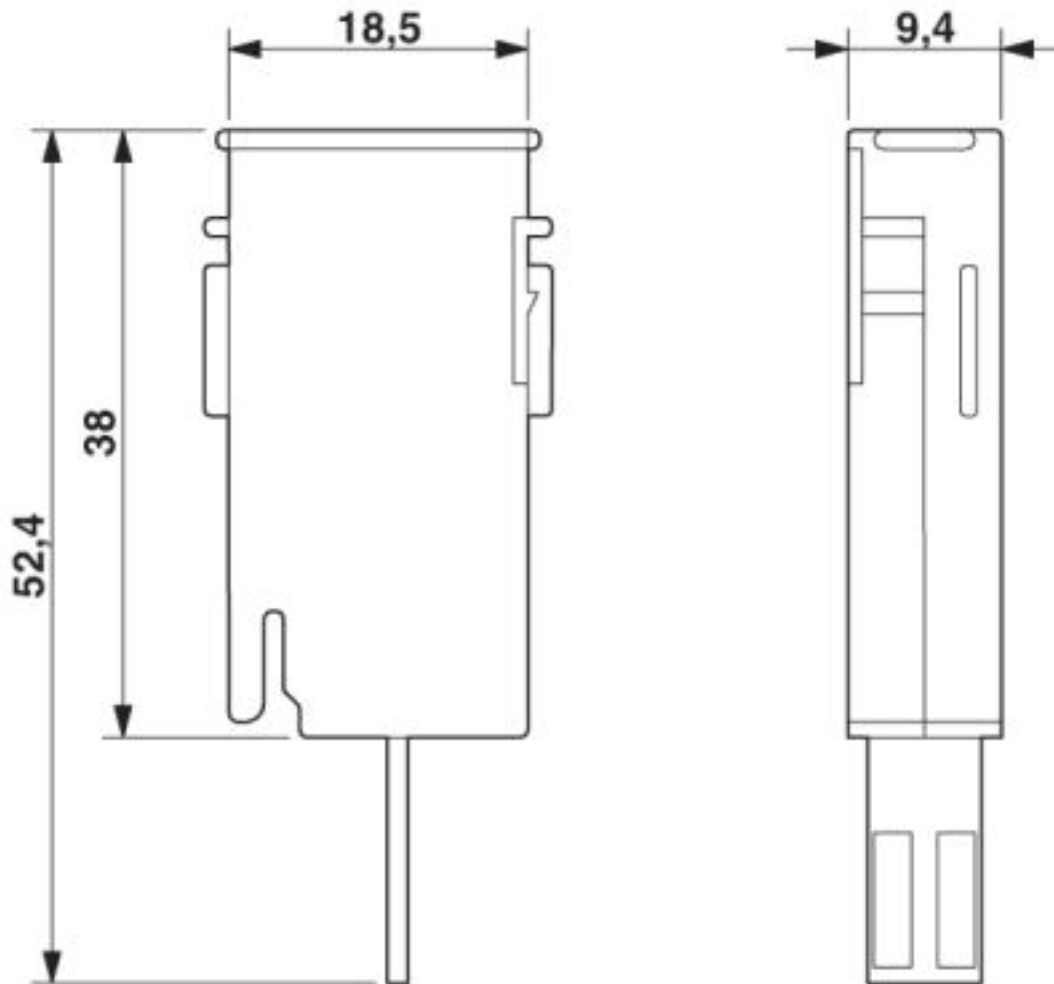
### Environmental Product Compliance

	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

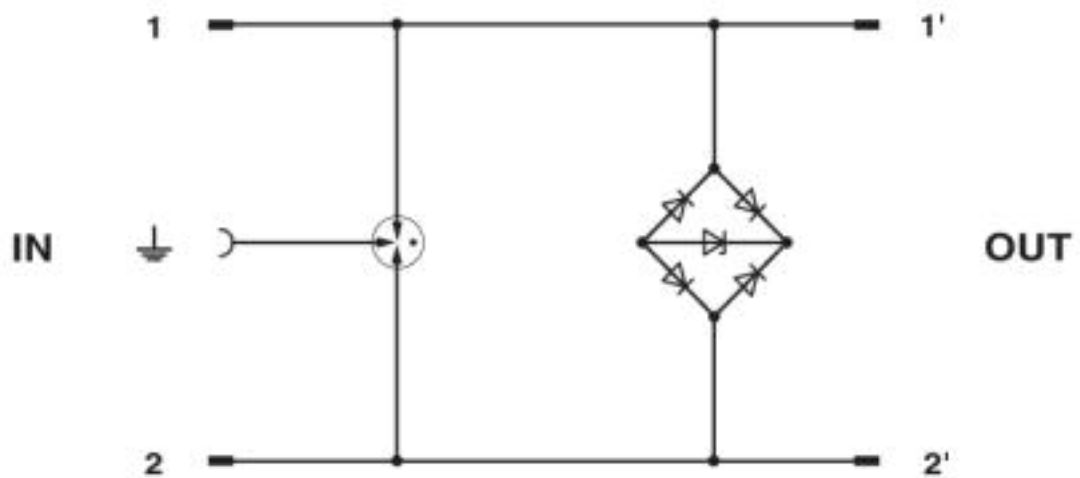
## Drawings

# Surge protection plug - CTM ISDN - 2838555

Dimensional drawing



Circuit diagram



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### Classifications

#### eCl@ss

eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

#### ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943
ETIM 6.0	EC000943
ETIM 7.0	EC000943

#### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

### Approvals

#### Approvals

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Approvals

EAC

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Ex Approvals

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#### Approval details

## Surge protection plug - CTM ISDN - 2838555

### Approvals

EAC



RU C-  
DE.A\*30.B01561

### Accessories

#### Necessary add-on products

Disconnect strip - CT 10-TL - 2765356



LSA-PLUS disconnect strip to hold the CTM and CT 10 protection modules. Version: 10 double conductors, dimension A: 124 mm.

Grounding rail - CT 1-10-ES - 2765547



Ground rail for CTM protective plug when used in combination with LSA-PLUS disconnect strip. Version: 10 double conductors

Screw termination block - CT-TERMIBLOCK 10 DA - 0441711



Screw termination block with disconnect contacts for accommodating protective plugs CT and CTM. Use in MCR and telecommunications systems. Design: 10 double wires

Magazine - CTM 10-MAG - 2838610



Magazine with a grounding rail to accommodate up to 10 LSA-PLUS protective plugs (COMTRAB CTM), to insert in CT-TERMIBLOCK or LSA-PLUS disconnect strip

### Additional products

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### Accessories

#### Mounting clip - CT 10-MB/ 3 - 2765372



Mounting clip, for holding 3 disconnect or ground wire strips. Version: 10 double conductors, dimensions: A 104.5 mm, B 65 mm.

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#### Mounting clip - CT 10-MB/10 - 2765385



Mounting clip, for holding 10 disconnect or ground wire strips. Version: 10 double conductors, dimensions: A 104.5 mm, dimensions B 245.5 mm

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#### Cable feed-through sleeve - CT-KDT - 2765518



Cable bush for assembly troughs, for protection of the lines guided through the laminated frame

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#### Short-circuit connector - CTM EST - 2838649



LSA-PLUS grounding plug (COMTRAB CTM) to short-circuit and ground potentials in CT-TERMIBLOCK... and disconnect strip CT 10...

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#### Shield connection - SSA 3-6 - 2839295



Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable: 200 mm, 1 mm<sup>2</sup>, color: black

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### Accessories

Shield connection - SSA 5-10 - 2839512



Shield fast connection for 5 ... 10 mm cable diameter. Potential connecting cable: 200 mm, 1 mm<sup>2</sup>, color: black

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