

## 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	1 pc
GTIN	 4 017918 819583
GTIN	4017918819583
Weight per Piece (excluding packing)	9.090 g
Custom tariff number	85363010
Country of origin	Germany

### 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

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### Technical data

#### General

Housing material	PA
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

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### Technical data

#### Protective circuit

Output voltage limitation at 1 kV/μs (line-earth) spike	≤ 700 V
Output voltage limitation at 1 kV/μs (line-line) static	≤ 15 V
Output voltage limitation at 1 kV/μs (line-earth) static	≤ 700 V
Residual voltage at I <sub>n</sub> (line-line)	≤ 32 V
Residual voltage at I <sub>n</sub> (line-earth)	≤ 55 V
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
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## Technical data

### Standards and Regulations

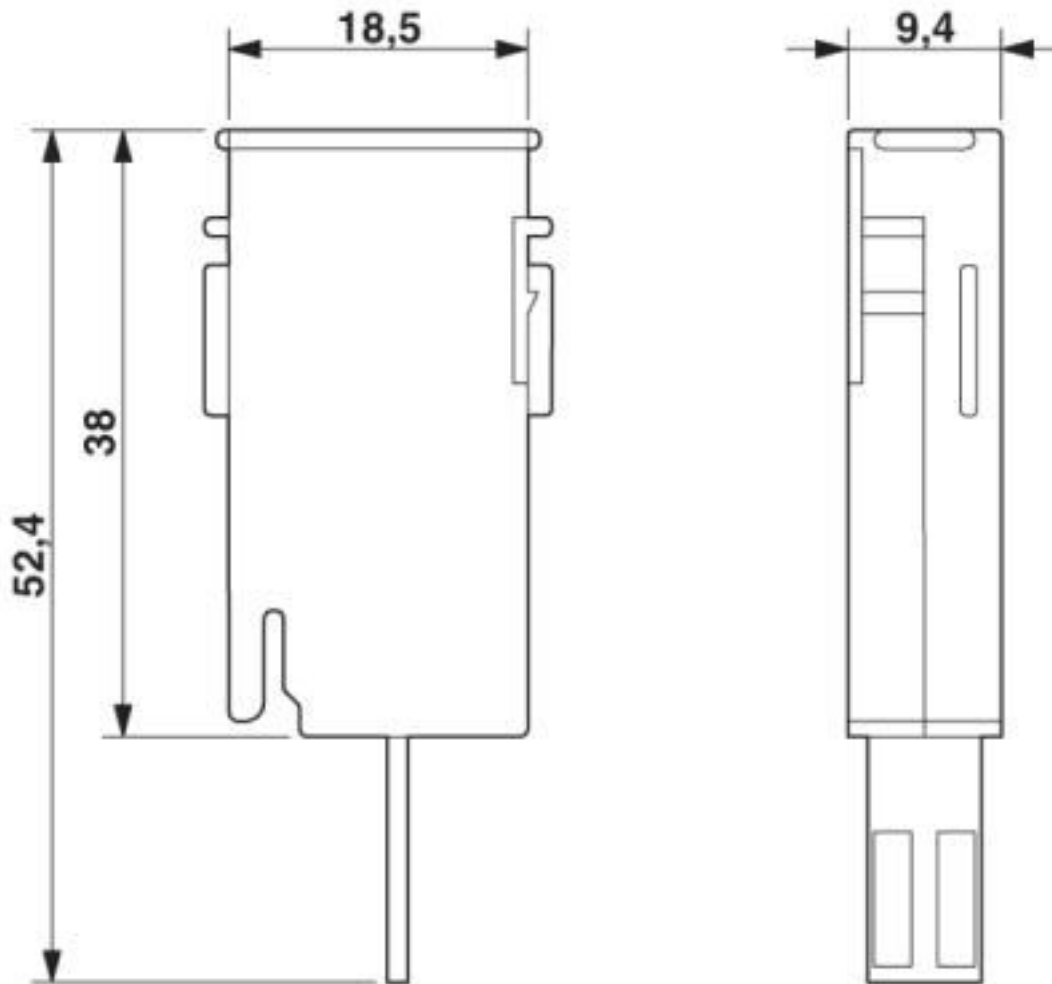
Standards/specifications	IEC 61643-21 2000
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### Environmental Product Compliance

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

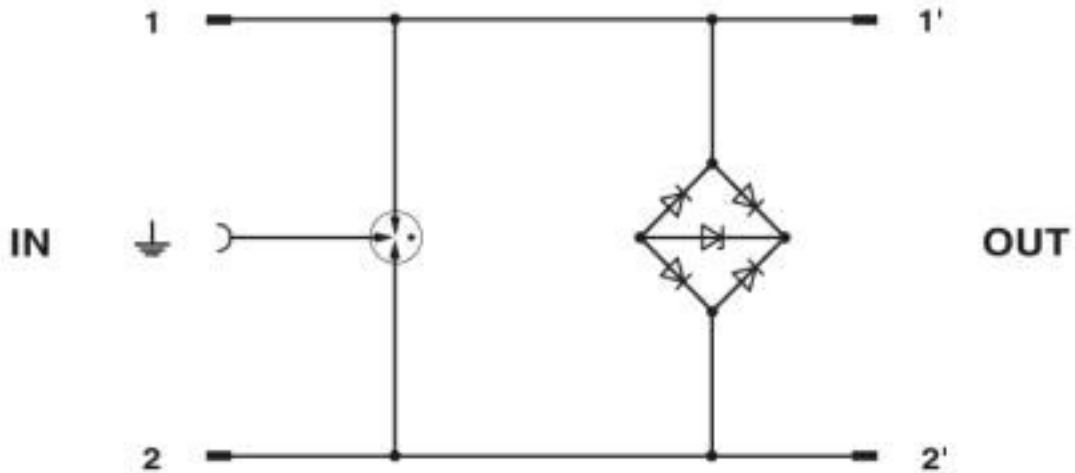
## Drawings

Dimensional drawing



## Surge protection plug - CTM ISDN - 2838555

Circuit diagram



### Classifications

eCl@ss

eCl@ss 10.0.1	27130807
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

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## Classifications

### UNSPSC

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

### Approval details

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

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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

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### Accessories

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#### 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

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#### 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

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### Additional products

#### 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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## Surge protection plug - CTM ISDN - 2838555

### Accessories

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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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