

Surge protection plug - CT 10-9VA-120AC



2830485

<https://www.phoenixcontact.com/us/products/2830485>

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LSA-PLUS plug (COMTRAB CT 10) with surge protection incl. visual fault warning for nine 2-core signal circuits. Nominal voltage: 120 V AC. Design: 10 double wires



Commercial Data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2830485 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to Order (non-returnable) |
| Sales Key | 00 |
| Product Key | CL3212 |
| Catalog Page | Page 119 (TT-2011) |
| GTIN | 4017918106560 |
| Weight per Piece (including packing) | 102.6 g |
| Weight per Piece (excluding packing) | 80.61 g |
| Customs tariff number | 85363010 |
| Country of origin | DE |

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Technical Data

Product properties

| | |
|--|-------------------------------------|
| IEC test classification | C1 |
| | C3 |
| Type | LSA-PLUS module |
| Product type | Surge protection for MCR technology |
| Arrester can be tested with CHECKMASTER from software version: | From SW rev. 1.00 |

Connection data

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

Dimensions

| | |
|---------------------|---------|
| Dimensional drawing | |
| Width | 111 mm |
| Height | 22 mm |
| Depth | 68.5 mm |

Material specifications

| | |
|--|-------|
| Color | black |
| Flammability rating according to UL 94 | V2 |
| Housing material | PBT |

Mechanical properties

| | |
|-----------------|----|
| Mechanical data | |
| Open side panel | No |

Protective circuit

| | |
|--|--------------------------------|
| Direction of action | Line-Line & Line-Earth Ground |
| Maximum continuous voltage U_C | 200 V DC 150 V AC |
| Maximum continuous voltage U_C (line-earth) | 200 V DC 150 V AC |
| Maximum continuous voltage U_C (line-signalground) | 200 V DC 150 V AC |
| Operating effective current I_C at U_C | ≤ 1.5 mA ≤ 2.5 mA |
| Residual current I_{PE} | ≤ 1 μ A |

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| | |
|---|-----------------------|
| Nominal discharge surge current I_n (8/20) μ s (Core-Earth) | 1.5 kA |
| Nominal discharge current I_n (8/20) μ s (line-signal ground) | 1.5 kA |
| Nominal discharge current I_n (8/20) μ s (signalground-earth) | 5 kA |
| Total surge current (8/20) μ s | 5 kA |
| Max. discharge current I_{max} (8/20) μ s maximum (line-earth) | 5 kA (10-PE) |
| Max. discharge current I_{max} (8/20) μ s maximum (line-signalground) | 4.5 kA (10) |
| Residual voltage at I_n (conductor-ground) | \leq 1.4 kV |
| Residual voltage at I_n (line-signalground) | \leq 600 V |
| Residual voltage at I_n , fixed cable length | 10 m |
| Max. energy absorption (2 ms), asym. | 40 J |
| Voltage protection level U_p (line-earth) | \leq 1.4 kV (10-PE) |
| Voltage protection level U_p (line-signalground) | \leq 600 V (10) |
| Response time t_A (line-line) | \leq 25 ns |
| Response time t_A (line-earth) | \leq 100 ns |
| Response time t_A (line-signalground) | \leq 25 ns |
| Frequency range | 50 Hz ... 60 Hz |
| Capacity (Core-Earth) | 2 pF (10-PE) |
| Capacity (line-signalground) | 570 pF (10) |
| Max. required back-up fuse | 1.5 A (gL) |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 85 °C |

Standards and regulations

Air clearances and creepage distances

| | |
|-----------------------|------------------------|
| Standards/regulations | VDE 0110-1 / IEC 60664 |
|-----------------------|------------------------|

Standards Information technology specification

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

Mounting

| | |
|---------------|--|
| Mounting type | On CT-TERMIBLOCK and LSA-PLUS disconnect strip |
|---------------|--|

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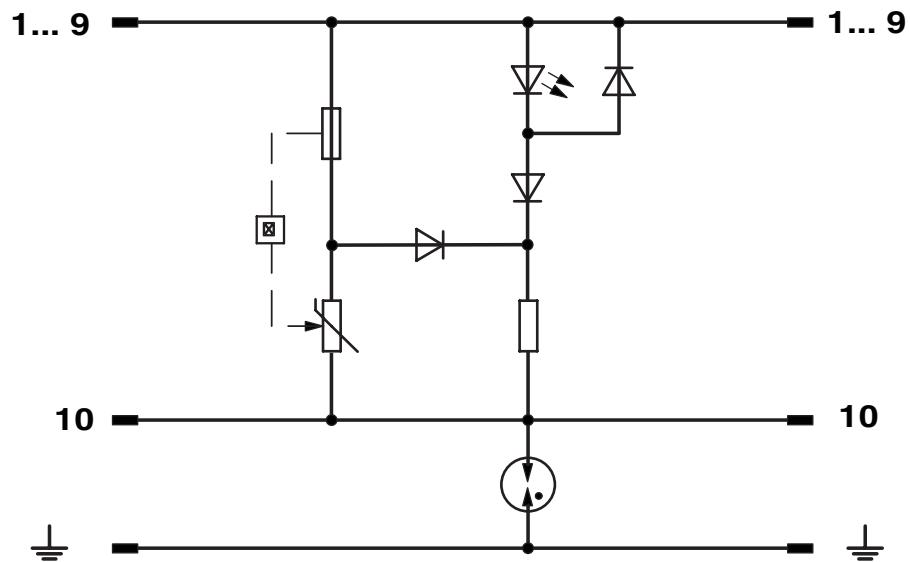
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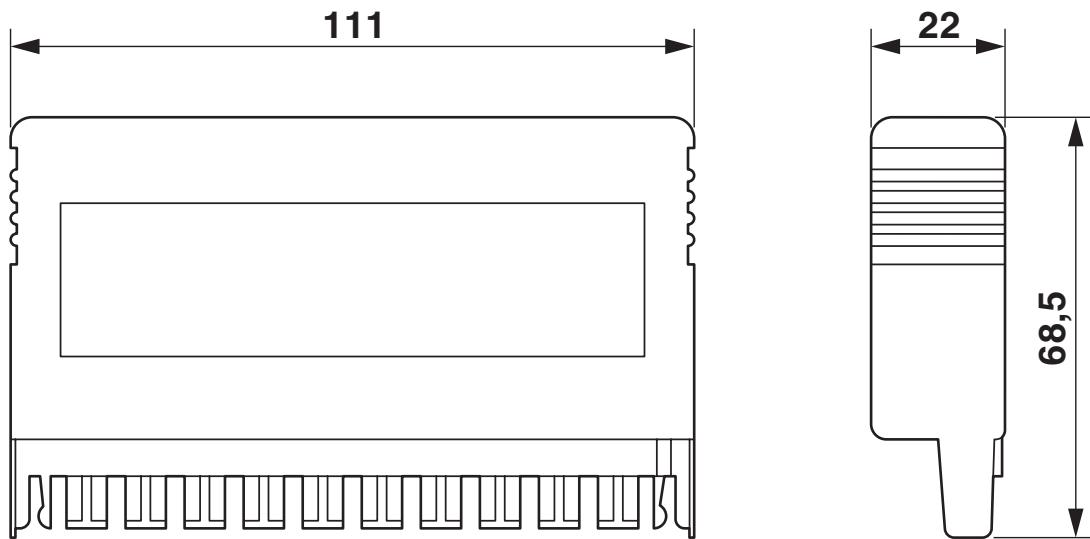


Drawings

Circuit diagram



Dimensional drawing



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Classifications

ECLASS

ECLASS-9.0

27130807

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Mandatory Accessories

Disconnect strip

Disconnect strip - CT 10-TL - 2765356

<https://www.phoenixcontact.com/us/products/2765356>



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

Accessories

Screw termination block

Screw termination block - CT-TERMIBLOCK 10 DA - 0441711

<https://www.phoenixcontact.com/us/products/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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Mounting clip

Mounting clip - CT 10-MB/ 3 - 2765372

<https://www.phoenixcontact.com/us/products/2765372>

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



Shield connection

Shield connection - SSA 3-6 - 2839295

<https://www.phoenixcontact.com/us/products/2839295>

Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable: 200 mm, 1 mm², color: black



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Shield connection

Shield connection - SSA 5-10 - 2839512

<https://www.phoenixcontact.com/us/products/2839512>

Shield fast connection for 5 ... 10 mm cable diameter. Potential connecting cable:
200 mm, 1 mm², color: black



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