Data sheet of data surge protection BrOK®, typ AuDiO-100V-2kW-BC (DIN)

Surge protection BrOK®, type **AuDiO-100V-2kW-BC** (DIN) is protection type T1 + T2 (lightning current arrester class B + surge arrester class C). It is designed to protect radio exchanges and audio amplifiers connected to 100 V line audio distribution systems installed outdoors (LPZ 0_B, 0_C zone) with a total transmitted nf power of up to 2 kW (permanent, sine), eg to speakers of station or terminal information systems, municipal radios etc.

The condition of proper operation of each overvoltage protection is its **thorough electrical connection to the equipotential busbar EP (HOP) of the object** (usually via the secondary EP or through the PE low-voltage terminal) **with the shortest wire with a minimum cross-section of 6 mm².**

The COP design ensures reliable leakage of part of the lightning current without thermodynamic destruction of the protection and its surroundings. This allows installation of BrOK® surge protectors also in plastic switchboards.

Note: for an additional charge of CZK 100, we can supplement the protection with a bracket for mounting on a DIN rail.

Manufacturer Part Number: **AuDiO-100 V-2 kW-BC** (DIN).

Catalog codes: **audio100V2kWbc** (din)

Technical parameters of protection:

Max. rated voltage at terminals A, B against the EP bolt: **120 V_{ef}**

Max. rated current in line audio conductors: **20 A_{ef}**

Cut-off frequency of the transmitted signal: **~ 15 MHz/- 3 dB**

Note: due to the cut-off frequency value, the protection can also be used for other applications

Test surge current I_{ZRP}: **5 kA, 10/350 µs**

Max. residual overvoltage u (t) at the terminals A*, B*: **≤ ±200 V_{p-p} t ≥ 60 ns (fig. 2)**

Protection connection:

- to the protected audio control panel: screwless terminal block

- to outdoor distribution conductors: screwless terminal block

- to the equipotential busbar EP (HOP) of the building: yellow-green wire CYL by min. cross section 6 mm²

Maximum dimensions (contour) **-175x75x50 mm**

Mounting method: any working position

Mass: 280 g **Coverage class: IP 20**

Fig. 1

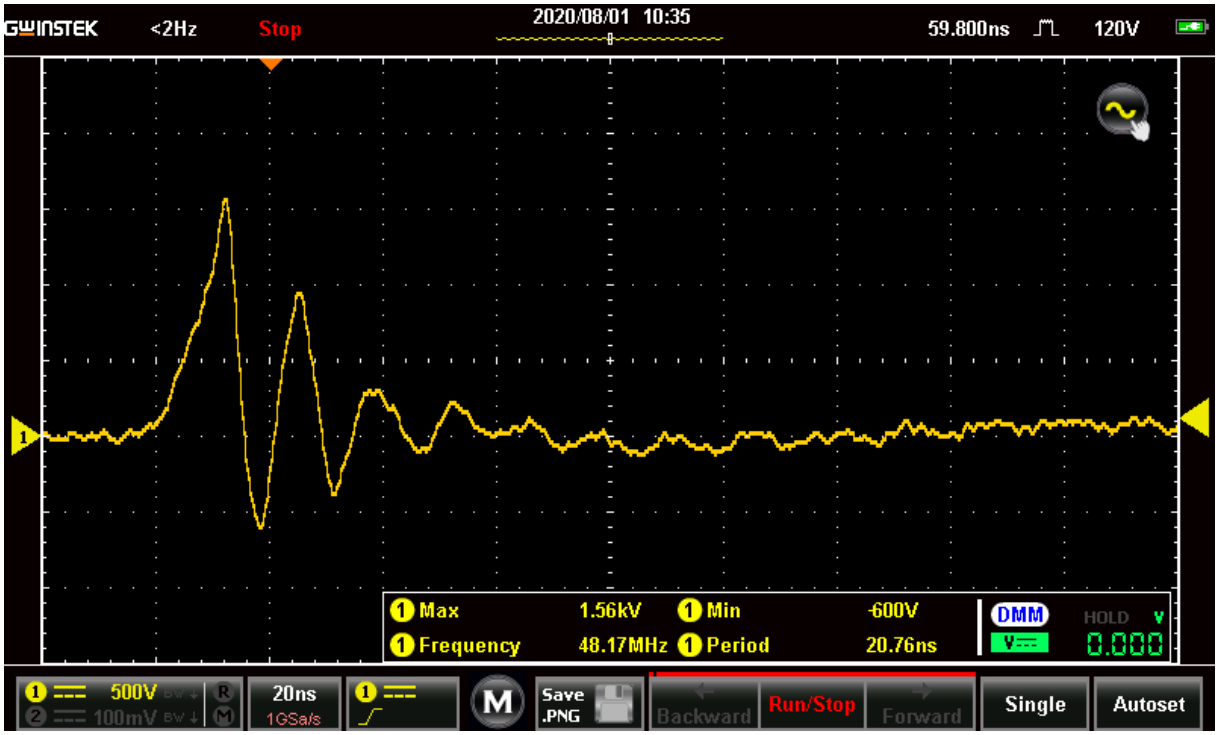

Fig. 2 Oscillogram of the residual overvoltage u (t) at the protected terminals **A*** (or **B***) against the EP protection terminal **AuDiO-100V-2kA-BC** (DIN) at test surge current **5 kA**, **10/350 µs** at the input (line) terminals **A (or B)** against the EP protection terminal.
The test was performed on July 9, 2020 in our company testing laboratory.

Surge protectors BrOK®- quality at solid prices

The warranty period is 24 months from the date of sale. In the event of a dispute, the guarantee of the claimed surge protection **is subject to the condition that the installation conditions are checked by the manufacturer's service technician** and that the nameplate is undamaged. For the duration of the complaint procedure, we can lend the customer functional surge protection of the same type.

Technical consulting is provided and serviced by the company:
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Recommended retail price without 21% VAT: **see Price list**
Quantity rebates are determined according to Business conditions stated at the end **of the Price List.**

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