



HDTNV2/48C

- Designed for the protection of data and communication lines against longitudinal and transverse surge effects.
 - Pluggable version.
 - No interruption of communication bus when the module is removed.
 - One pair or two pairs lines.
 - Contains both 1st and 2nd stage of protection.
 - The HDTNV*/*C range, in addition, contains a gas discharge tube between the PE and SH (shield) terminals for their galvanic isolation.
- The inserted series impedance consists of inductors, which allow the nominal current up to 1,5 A permanently flow through the protection. This predetermines the equipment for protection of the power supply line of the system.
 - It can be used for the protection of analog data lines using the current loop 4 to 20 mA.
 - Not suitable for digital data transmission with high transmission speed.

| Type | | HDTNV2/48C |
|--|-------------|---------------------------|
| Testing category according to IEC 61643-21:2000 and EN 61643-21:2001 | | C1, C2, C3, D1 |
| Number of pairs | | 2 |
| Connector type | | Screw terminals |
| Rated operating DC voltage | U_N | 0 ÷ 48 V |
| Maximum continuous operating voltage DC | U_C | 57.6 V |
| Rated load current | I_L | 1.5 A |
| C1 Voltage protection level at I_n (line/PE) | U_p | < 500 V |
| C1 Voltage protection level at I_n (line/line) | U_p | < 90 V |
| C1 Nominal discharge current (8/20) | I_n | 1 kA |
| C2 Voltage protection level at I_n (line/PE) | U_p | < 600 V |
| C2 Voltage protection level at I_n (line/line) | U_p | < 120 V |
| C2 Nominal discharge current (8/20) | I_n | 15 kA |
| C3 Voltage protection level at 1 kV/μs (line/PE) | U_p | < 85 V |
| C3 Voltage protection level at 1 kV/μs (line/line) | U_p | < 70 V |
| D1 Impulse discharge current (10/350) line/PE | I_{imp} | 2.5 kA |
| D1 Total impulse discharge current (10/350) | I_{Total} | 5 kA |
| Response time | t_A | < 30 ns |
| Series inductance per line | | 2.2 μH |
| Parasitic capacitance | C | < 1.5 nF |
| Lightning protection zone | | LPZ 1-2, LPZ 2-3 |
| Housing material | | Polyamid PA6, UL94 V-0 |
| Degree of protection | | IP20 |
| Operating temperature | θ | -40 ÷ 55 °C |
| Clamp fastening range (solid conductor) | | 0.2 ÷ 1.5 mm ² |
| Tightening moment | | 0,5 Nm |
| Installation | | On DIN rail 35 mm |

| Type | | HDTNV2/48C |
|--|---|----------------------|
| Modular width | | 1 TE |
| Operating position | | Any |
| Remote signalling | | No |
| Pluggable version | | Yes |
| Article number of spare module | | 56 025/M |
| Lifetime | | > 100 000 h |
| Designed according to standards | | |
| Requirements and test methods for SPDs connected to telecommunications and signalling networks | | IEC 61643-21:2000 |
| Safety of Flammability of Plastic Materials | | UL 94 |
| Application standards | | |
| Protection against lightning | | IEC 62305:2010 |
| Ordering, packaging and additional data | | |
| Mass | m | 80 g |
| Mass (including the packaging) | m | 91 g |
| Packaging dimensions (H x W x D) | | 26 x 98 x 73 mm |
| Packaging value | V | 0.19 dm ³ |
| ETIM group | | EG000021 |
| ETIM class | | EC000943 |
| Customs tariff no. | | 85363010 |
| EAN code | | 8590681167700 |
| Art. number | | 56 025/NV |



The link in the QR code leads to the online presentation of the **HDTNV2/48C**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit www.hakil.com



Internal diagram

