

PRODUCT DATA SHEET

Surge Protective devices

SPDs for telecom and signaling

Code: 6817030-70

Description: SPD DataTron PCB 30, code 6817030-70

Description

Surge protective device, suitable for the protection of electrical and electronic equipment, operating at low voltage digital and analogue signals. It is providing protection, to 1 cable pair and shield, against external transients and surges caused by lightning, induction and switching overvoltages. Especially designed to be

installed in switchboards and control panels with limited space and where a numerous of incoming and outgoing cables are connected, such as interfaces RS 485 and RS 422. Quick and easy installation by clipping on DIN rail. Thanks to its innovative design with 3 protection levels (GDT + TVD Diode + Zener) it succeeds stable residual voltage, regardless the value of the surge current. In contrast with the common SPDs for signals protection, DataTron PCB coordinates the 3 protection levels through the use of MOSFETs, which are limiting the incoming current between the protection levels, ensuring this way longer life duration of the more sensitive protection levels and thus of the surge protective device.



Technical characteristics

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| Protection type EN / IEC 61643-21 | C1, C2, C3 |
| Number of poles | 2 + GND |
| Number of protected pairs | 1 + GND |
| Connection between terminals | L1-L2, L1-GND, L2-GND |
| Maximum operating voltage, U_c | 30 V |
| Maximum operating current, I_L | 1 A |
| Maximum signal frequency, F | 10 MHz |
| Insertion losses | <0,35 dB @ 10 MHz / <-3 dB @ 23 MHz |
| Series line resistance (input - output), R | 1,5 Ohms |
| Line capacitance (input - output), C | < 10 nF |
| I_n , C2 test, (8/20 μ s), 2P / 1P | 10 kA / 5 kA |
| U_p , (at I_n), L-L & L-GND | < 219 V |

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|---|----------------------------------|
| Up, C3 (at 1 kV), L-L & L-GND | < 45 V |
| Discharge capability of 100 A (10/1000μs), 1P | x300 times |
| Main circuit | GDT + TVS diode + Zener + MOSFET |
| Response time, tA | 1 ns |
| Connection to network | In line |
| Dimensions WxHxL (mm) | 16,2x22x87 mm |
| Maximum conductor for terminal | 0,75 - 1,5 mm ² |
| Conductor terminals tightening torque | 0,4 Nm |
| Housing material | Thermoplastic V-0 |
| Protection level of housing | IP00 |
| Operating temperature | -40 oC ÷ +80 oC |
| Relative humidity | 5% ÷ 95% |
| Rail mounting | DIN-3 (TS-35/EN50022) & busbar |
| Certification | STR by OVE, CE |
| Conformity with | LVD 2014/35/EU |
| Installation only by qualified electrician | IEC 60417-6182 |
| ELEMKO management systems | ISO 9001, ISO 14001, ISO 45001 |