

PRODUCT DATA SHEET

SURGE PROTECTIVE DEVICES (SPDs)

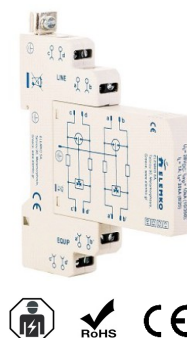
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Brand Name: DataTron PR 4-24
Application: Low voltage digital & analogue signals

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 up to 2 cable pairs, 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. It is consisted of a plug-in protection module and a base. The signal pass through the base in order to operate uninterruptible even with the module removed. The plug-in protection module can be replaced in no time with no need to cut-off the signal.



Protection type EN / IEC 61643-21

- C1, C2, C3, D1

Technical characteristics

| | |
|---|--|
| Number of Poles | 4 + GND |
| Number of protected pairs | 2 |
| Connection between terminals | L ₁ – L ₂ , L ₁ – GND, L ₂ – GND L ₃ – L ₄ , L ₃ – GND, L ₄ – GND |
| Maximum operating voltage, U _c | 28 V |
| Maximum operating current, I _L | 1 A |
| Maximum signal frequency, F | 30 MHz |
| Series line resistance (input – output), R | 2 Ω |
| Line capacitance (input – output), C | 50 pF |
| I _{imp} , D1 test, (10/350μs), 2P / 1P | 2,5 kA / 1,25 kA |
| I _{imp} , D1 test, (10/350μs), 4P | 5 kA |
| I _n , C2 test, (8/20μs), 2P / 1P | 20 kA / 10 kA |
| U _p , (at 5 kA) L–L & L–GND | <70 V |
| U _p , C3 (at 1 kV) L–L & L–GND | <37 V |
| Response time, t _A | 1 ns |
| Main circuit | GDT + TVS |
| Connection to network | In line |
| Protection level of housing | IP20 |
| Dimensions WxHxD | 12x95x84,5 mm |
| Operating temperature, θ | -40°C ÷ +80°C |
| Relative humidity | 5% ÷ 95% |
| Maximum conductor for terminal | 0,75 – 4 mm ² |
| Conductor terminals tightening torque | 1 Nm |
| Rail mounting | DIN-3 (TS-35/EN50022) |
| Housing material | Thermoplastic V-0 |
| Certification | CE |
| Conformity with | LVD 2014/35/EU |
| Installation only by qualified electrician | IEC 60417 – 6182 |

ELEMKO management systems

- ISO 9001
- ISO 14001
- ISO 45001

Country of Origin

Greece

Unit: piece / Package: 1 piece

We reserve the right to introduce changes in the component due to technical evolution.