

# PRODUCT DATA SHEET

## Surge Protective devices

### SPDs for telecom and signaling

**Code: 6844125-70**

**Description: SPD DataTron PR 4-24, code 6844125-70**

#### 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 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.



#### Technical characteristics

Protection type EN / IEC 61643-21	C1, C2, C3, D1
Number of poles	4 + GND
Number of protected pairs	2
Connection between terminals	L1-L2, L1-GND, L2-GND, L3-L4, L3-GND, L4-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 Ohms
Line capacitance (input - output), $C$	50 pF
$I_{imp}$ , D1 test, (10/350 $\mu$ s), 2P / 1P	2,5 kA / 1,25 kA
$I_{imp}$ , D1 test, (10/350 $\mu$ s), 4P	5 kA
$I_n$ , C2 test, (8/20 $\mu$ s), 2P / 1P	20 kA / 10 kA
$U_p$ , (at 5 kA), L-L & L-GND	< 70 V

Up, C3 (at 1 kV), L-L & L-GND	< 37 V
Main circuit	GDT + TVS diode
Response time, tA	1 ns
Connection to network	In line
Dimensions WxHxD (mm)	12x95x84,5 mm
Maximum conductor for terminal	0,75 – 4 mm <sup>2</sup>
Conductor terminals tightening torque	1 Nm
Housing material	Thermoplastic V-0
Protection level of housing	IP20
Operating temperature	-40 oC ÷ +80 oC
Relative humidity	5% ÷ 95%
Rail mounting	DIN-3 (TS-35/EN50022)
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