PRODUCT DATA SHEET

Surge Protective devices

SPDs for telecom and signaling

Code: 6803411-70

Description: Teletron Box H20, code 6803411-70

Description

Surge protective device providing primary and secondary overvoltage protection to Voice over Internet Protocol (VoIP) networks and devices connected to them. It is providing primary protection against direct lightning strikes (10/350μs) on the overhead network or on the structure it is installed. Additionally it is providing protection against inducted surges (8/20μs) generated by the electromagnetic field, which is created by a nearby lightning strike. The surge protective devices are generally placed at each end of the line and as possible as close to the device to be protected. It is providing protection between the pair and earth (common mode) and also between the poles of the pair (differential mode).



Technical characteristics

Protection type EN / IEC 61643-21	C1, C2, C3, D1
Number of poles	2 + GND
Number of protected pairs	1 (2 cables) + GND
Connection between terminals	L1 – L2, L1 – GND, L2 – GND
Nominal operating voltage, Un	110 V DC
Maximum operating voltage, Uc	180 V DC
Maximum operating current, IL	0,6 A
Maximum signal frequency, F	250 MHz
Series line resistance (input – output), R	1,6–2,0 Ω
Line capacitance (input – output), C	≤ 20 pF (L–L) / ≤ 10 pF (L–G)
In, D1 test, (10/350μs), Total	7,5 kA
In, C2 test, (8/20μs), Total	20 kA
Up, (at 1 kV/μs – C3)	250 V (L–L) / 550 V (L–G)
Up, (at In – C2)	750 V (L–G)

Response time, tA	25 ns (L) / 100 ns (G)
Main circuit	GDT + Diode block
Connection to network	In line
Protection level of housing	IP66
Dimensions WxHxD (mm)	93x93x62 mm
Operating temperature	-25 oC ÷ +40 oC
Relative humidity	5% ÷ 95%
Maximum conductor for terminal	0,13 – 2,5 mm2 (L) / 0,2 – 2,5 mm2 wire, 0,25 – 1,5 mm2 ferrule (G)
Housing material	Polycarbonate halogen free
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