PRODUCT DATA SHEET

Surge Protective devices

SPDs for telecom and signaling

Code: 6803410-70
Description: SPD Teletron Box, code 6803410-70

Description

Surge protective device providing primary and secondary overvoltage protection to digital and analog telecommunication networks and devices connected to them. It is providing primary protection against direct lightning strikes (10/350μs) on the telecommunication 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 telecom 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, D2
Number of poles	2
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	120 V DC
Maximum operating current, IL	1 A
Maximum signal frequency, F	10 MHz
Series line resistance (input – output), R	1 Ω
Line capacitance (input – output), C	90 pF
In, D2 test, (10/350μs), 2P / 1P	2,5 kA / 1,25 kA
In, C2 test, (8/20μs), 2P / 1P	20 kA / 10 kA
Up, (at In & 1 kV/μs – C3)	400 V
Response time, tA	25 ns

Main circuit	GDT + MOV
Connection to network	In line
Dimensions WxHxD (mm)	17,5x90x64 mm
Maximum conductor for terminal	0,75 – 4 mm2
Conductor terminals tightening torque	1 Nm
Housing material	Polycarbonate halogen free
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