DATA SHEET

SG-100/SG-200

Overvoltage protection modules for effective protection against power surges for All-IP and traditional telecommunications connections.

- Perfectly secured telecommunications infrastructure
- Plug and play – commissioning made as quick and easy as possible
- Full performance – bandwidths guaranteed
- No productivity hits when Internet access fails

Use the modules in the SG series to protect your router or a remote end device on your ITC infrastructure against power surges from the communications network. The SG-100 is the best choice for use on ADSL connections with splitters, ISDN or remote exchange line connections, remote analogue extensions, remote UPo extensions or analogue door terminals. The SG-200 is designed for use on All-IP connections such as VDSL or ADSL without splitters.

Which product do you need?

- Do you have VDSL or All IP with IP telephony (e.g., VDSL 100 without DSL filter)?
- Does your connection reach the ordered bandwidth without loss?

SG-100
SG-200
Features Overview

Features

SG-100
Suitable for use on an:
- ADSL connection with splitter
- ISDN exchange line connection
- analogue exchange line connection
- remote analogue or U- extension or analogue door terminal
- ADSL and VDSL connections with bandwidth reduced, but above minimum guaranteed access line speed.

SG-200
Suitable for use on All-IP connections:
- VDSL connections
- Suitable for VDSL 100
- ADSL connections without splitters

Technical Data

General
- Usable in compliance with country-specific requirements: across Europe
- Ambient temperature in operation: -5 to +40 °C
- Ambient temperature in storage: -40 to +70 °C
- Relative humidity in operation: 5 % to 95 %, non-condensing
- Mounting type: wall mounting
- Protection class: IP20
- Casing: plastic (fireproof), black
- Dimensions: 142 mm x 81 mm x 27 mm
- Weight: 106 g (SG-100), 111 g (SG-200)
- Safety: CE

SG-100
- Surge arrester class: Type 2P1
- Rated voltage (UN): 70 V AC/100 V DC
- Highest continuous voltage (UC): 85 V AC/120 V DC
- Rated current at 45 °C (IL): <= 200 mA
- Total C2 rated discharge surge current 5 kV (8/20 μs) (In): 5 kA
- C2 rated discharge surge current 5 kV (8/20 μs) per core (In):
  - <= 2.5 kA (operation with wire terminal)
  - <= 2 kA (operation via RJ45 socket)
- Protective level, core-core at C2 (UP):
  - <= 130 V
- Protective level, core-PG at C2 (UP):
  - <= 230 V
- Serial impedance per core (0 to 30 MHz): 2.4 Ω +20%
- Cut-off frequency, core-core (100 Ω) (fG):
  - 0 to 100 MHz
- Capacity, core-core (C):
  - <= 10 pF
- Capacity, core-PG (C):
  - <= 10 pF
- Pulse reset time:
  - <= 160 ms
- Overload failure mode: Mode 3 (disconnect line)

SG-200
- Surge arrester class: Type 2P1
- Rated voltage (UN): 20 V AC
- Highest continuous voltage (UC): 28 V AC / -- DC
- Rated current at 45 °C (IL): <= 60 mA
- Total C2 rated discharge surge current 5 kV (8/20 μs) (In): 5 kA
- C2 rated discharge surge current 5 kV (8/20 μs) per core (In):
  - <= 2.5 kA (operation with wire terminal)
  - <= 2 kA (operation via RJ45 socket)
- Protective level, core-core at C2 (UP):
  - <= 45 V
- Protective level, core-PG at C2 (UP):
  - <= 230 V
- Serial impedance per core (0 to 30 MHz): 3.8 Ohm resistive +20% + 100 nF capacitive
- Cut-off frequency, core-core (100 Ω) (fG):
  - 35 kHz to 80 MHz
- Capacity, core-core (C):
  - <= 15 pF
- Capacity, core-PG (C):
  - <= 10 pF
- Pulse reset time:
  - <= 160 ms
- Overload failure mode: Mode 3 (disconnect line)

Scope of Delivery
- SG-100 or SG-200
- RJ45 connecting cable
- Mounting hardware
- Installation Guidelines

Ordering Information
- Designation: SG-100
- Item number: 90077
- EAN code: 4019377900772
- Designation: SG-200
- Item number: 90078
- EAN code: 4019377900789