

## Technical sheet FT-21142

FUSM5/15AL – FUSADEE® MEDIUM 2-pole modular SPD 15kW with continuity of protection

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### Designation

FUSADEE® MEDIUM 2-pole modular SPD 15kW with controlling device  $U_p=0.8kV$ .

### Applications

**Main applications : residential and small tertiary buildings, workshops.**

The modular FUSADEE® SPD 21142 is designed to protect 1&2-pole electrical installations with a low or medium lightning exposure.

The current intensity must not exceed 100A in a TT, IT or TN earthing systems. The FUSADEE® SPDs with continuity of protection are to be installed at the service entrance of the installation and downstream from the ground fault interrupter.

#### Close protection

The FUSADEE® SPD can also be used as a close protection system for sensitive or fragile equipment installed in industrial and tertiary buildings (e.g. electronics, fire alarms, PBX systems).



### Description

Zener-diode-based 2-pole SPD (type 2), delivered prewired for DIN rail:

- 2 FUSADEE® cartridges for MEDIUM FUSADEE® SPD (1 x cartridge/pole)
- 1 cartridge controlling device with a TEST cartridge holder

### Technical specifications

- Overall dimensions : 6 modules ;
- Weight : 1kg;
- Max steady-state voltage  $U_c$  : 400V ;
- Compatible earthing systems : TT, TN.
- Voltage protection level  $U_p$  : 0.8kV ;
- Nominal discharge current  $I_n$  : 0.25 kA (unlimited number of shocks at  $I_n$ )
- NF EN 61643-11 compliant type 2 SPD

### Installation requirements

#### General requirements

The FUSADEE® is to be installed downstream from the ground fault interrupter and bridged to the earth. Phase/neutral connections are made thanks to flexible 10mm<sup>2</sup> cables. Connections between the SPDs and the earthing bus can be made with 25-mm<sup>2</sup> cables: they must be as short and as straight as possible. To prevent any potential induction or capacitive effect between cables, non-protected cables must be kept away (50cm minimum) as well as the earth conductor (1m).

#### Specific requirements

When used as a close protection system for electric equipment, a ground fault interrupter must be installed upstream from the SPD or the equipment. Moreover, improving the equipotential bonding between the downstream terminals of the SPD and the surrounding masses is advised.

## Product description

2-pole type 2 modular SPD, Zener-diode technology,  $U_c$  400V,  $U_p$  0.8kV, picosecond reactive, discharge current  $I_n$  0.25kA, unlimited nbr of shocks at  $I_n$ , discharge capacity after fusion : 15kA (10/350 waveform).

## Accessories and spare parts

Replacement cartridges and holder:

- FUSADEE® MEDIUM cartridge R5/15, code 21202 FUSADR5/15
- FUSADEE® PREMIUM cartridge R15/15, code 21203 FUSADR15/15
- FUSADEE® EXTREM cartridge R25/15, code 21204 FUSADR25/15
- FUSADEE® cartridge holder code 30203 MTAMSC15