



Features and benefits

- Built in DIN-rail foot for easy mounting
- Suitable any types of telephone and data lines
- 2-pair version
- Ultra-low in-line resistance 0.05Ω
- Strong, flame retardant housing
- Very high maximum current, 4A
- Repeated protection in lightning intense environment
- Full mode design capable of handling partial lightning currents
- IEC61312-1 / 61643-21 compliance

Application

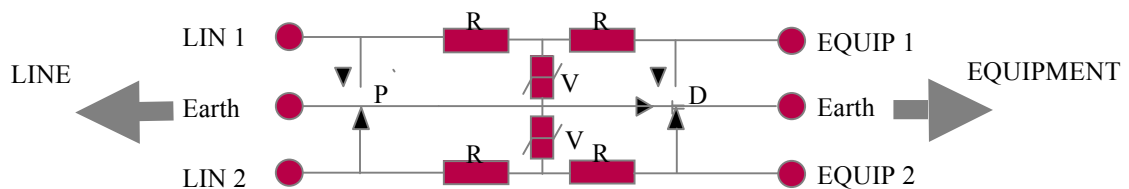
Suitable to protected the system that use higher running current such as system DC power line applications or systems very long signal lines.

Installation

Connect surge protector in series with the data communication or signal line or power line to protect the equipment or system.



Electrical diagrams



Legend: D : Diode; P : GDT; R : Resistor; V : Varistor

Technical Specification

| Electrical Specification | VSAR06A | VSAR15A | VSAR30A | VSAR48A | VSAR110A |
|--|---------------|---------|---------|---------|----------|
| Nominal Voltage | 6V | 15 V | 30 V | 48 V | 110 V |
| Maximum working voltage U_C | 7.2 V | 18 V | 36 V | 58 V | 132 V |
| Current rating | 4 A | | | | |
| In line resistance (perline $\pm 10\%$) | 0.05 Ω | | | | |
| Bandwidth (-3dB 50 Ω system) | 160 KHz | 140 KHz | 130 KHz | 120 KHz | 120 KHz |

VSAR06A VSAR15A VSAR30A VSAR48A VSAR110A

Transient Specification

Let-through voltage (all conductor) up

| | | | | | |
|---|--------|--------|--------|--------|-------|
| C2 test 4kV 1.2/50µs, 2KA 8/50µs to BS EN/EN/IEC 61643-21 | 12.0 V | 27.5 V | 46.0 V | 67.0 V | 150 V |
| C1 test 1kV 1.2/50µs, 0.5KA 8/50µs to BS EN/EN/IEC 61643-21 | 11.0 V | 26.5 V | 45.0 V | 66.5 V | 145 V |
| B2 test 4kV 10/700µs to BS EN/EN/IEC 61643-21 | 10.5 V | 25.5 V | 43.5 V | 65.0 V | 140 V |
| 5kV, 10/700µs | 10.8 V | 26.2 V | 44.3 V | 65.8 V | 145 V |

Maximum surge current

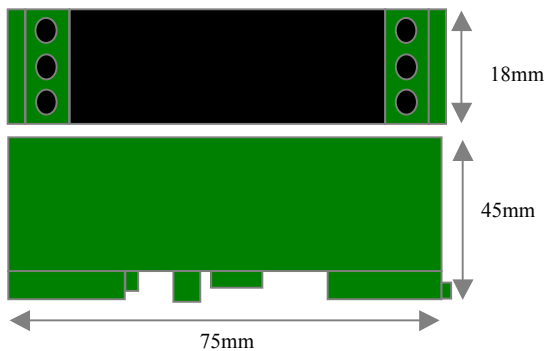
| | |
|---|------------------|
| D1 test 10/350µs to BS EN/EN/IEC 61643-21 -per signal wire -per pair | 2.5 kA 5.0 kA |
| 8/20µs to TTU-T 45: 2003 IEEEE C62.41 2:2002 -per signal wire -per pair | 10 kA 20 kA |

Mechanical specification

VSAR06A VSAR15A VSAR30A VSAR48A VSAR110A

| | |
|---------------------------|--------------------|
| Temperature range | -40 to +80°C |
| Connection type | Screw terminal |
| Conductor size (stranded) | 2.5mm ² |
| Earth connection | Screw terminal |
| Case material | ABS UL94 V-0 |
| Weight per unit | 0.06kg |
| Dimensions | |

** specifications are subjected to changes without prior notice



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