

PS-4



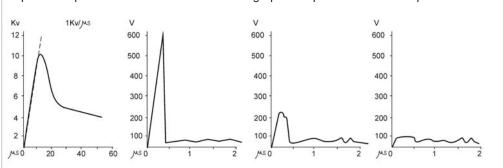


Description

The protector against atmospheric discharges PS-4 is designed for the protection of the electronic devices powered at a maximum voltage of 35VDC and installed under the effects of atmospheric discharges, overvolatges, etc.

Operating principle

The sequence of protection in front of an overvolatge peak is performed in three phases:



Thick protection: It is made by means of dischargers filled with noble gas that, with a overvoltage higher than the resistent power of the system, normally produce an electric discharge. This discharging pfenomenom limits the overvoltage and quickly reduce the energy of the disturbance. The electric arc generated, with its high capacity of conductivity, prevents the increasing of the overvoltage and limits to an arc voltage of about 10V.

Firing continous voltage	180240 V
Switchin maximum current	100 A
· Firing voltage (1kV/µs)	< 650 V
· Shock current (820µs)	5 kA
· Isolation resistance	1000 M Ω
· Capacity	2 pF
• Norms	CCITT

Medium protection: It is made by means of metallic-oxide varistors with a response time lower than 25 ns. This element has a simetric voltage-current characteristic with a value that decreases in front of an increasing voltage.

Maximum operating voltage	35 VDC
· Maximum shock voltage (820µs)	250 A
· Maximum transitory dissipation (820µs)	1,5 Jules
Maximum permanent load	0,02 Watt

Thin protection: It is made by means of diodes TDZ.

Nominal voltage	36 VDC
Maximum peak power	1500 Watt
· Leakage current	5μΑ
. Pulse of the shooting current	1 mΔ

Colour

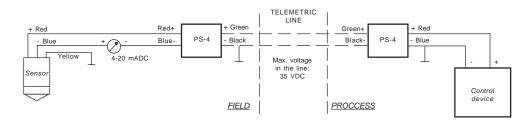
Material Plástico filled with epoxy resin

Grey

Installation

It is recommended to use two protection devices PS-4 between the ends of the connection cables (filed-process), keeping the polarity of the terminals in the input as well as in the output.

Connection diagram



Dimensions

