

## A123 Surge protection

## Technical data

IEC61643-1

- ◆ Pole No. : 1、2、3、4
- ◆ Frequency: 50/60Hz
- ◆ Connection terminal:
  - ◇ Pillar terminal with clamp
- ◆ On-Off indicating window:
  - ◇ Green: normal function
  - ◇ Red: functionless, immediate replacement required
- ◆ Connection capacity: rigid conductor 25mm<sup>2</sup>

Category	FDS16-A	FDS16-B	FDS16-C	FDS16-D	FDS16-E
Rated voltage Un:	220	220	220	380	380
Max. continuous operating voltage U <sub>c</sub> (V)	320	320	320	420	460
Voltage protection level U <sub>p</sub> (Kv)	1	1,2	1,5	2,0	2,3
Normal discharge current I <sub>n</sub> (kA)	5	10	20	30	40
Rated varistor voltage(V)	510±10%	510±10%	510±10%	680±10%	680±10%
Max. discharge current I <sub>max</sub> (kA)(8/20uS)	10	20	40	60	70
Response time (ms)	<25				
Power withstand (J) (2ms)	300	390	640	1500	1580
Ambient temperature	-40~+80				
Function unit colour	deep yellow	light yellow	light grey	brown	red
Min. terminal connection (mm <sup>2</sup> ):	phase, neutral 2.5, earth 4				



FDS16-B



FDS16-E



FDS16-X1



FDS16-Z4

## Construction and Feature

- ◆ Plug-in type function unit makes easy replacement
- ◆ On-off indicating window
- ◆ Quick response less than 25ms

## Application

FDS16 Surge protective Devices (referred as SPD) provide protection against surge current resulted from direct or indirect lightning strike or similar surge voltage. SPD is applicable to circuit with rated voltage up to 400V~, rated frequency 50/60Hz.

The product, using metal oxide varistor, designed to protect both phase and neutral line, is of high electricity resistance under normal operations. In case of surge current or voltage caused by lightning strike or similar, SPD functions quickly to conduct the surge voltage/current to earth and thus effectively prevent the downstream equipments of its protected line from destruction. SPD resume its high electricity resistance to secure normal operation of the protected power network without presence of the surge voltage.

## Overall &amp; installation dimensions

