## SFD1-10-50-275-A



### Single Phase Surge Filters

Novaris DIN mount Surge Filter are suitable for installation in circuits up to 32A. The SFD range has been engineered to protect sensitive loads.

#### Compact Design

Their compact design makes them an ideal choice for space restricted applications.

### All Mode Protection

Protection is provided for all combinations of lines (L-N, L-PE, N-PE) ensuring the maximum level of protection is achieved at all times.

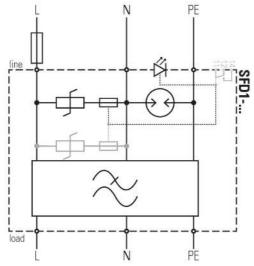
#### Safe Metal Enclosure

Novaris surge protection products are housed in safe, all metal enclosures. In the event of a prolonged overvoltage they will not catch fire or explode.

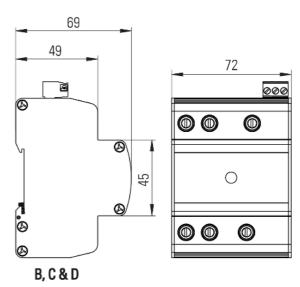
### Three Stages of Protection

Novaris surge filters have 2 stages of varistor protection separated by a low pass LC filter. This 3 stage combination reduces the effects of high frequency noise and transients to provide the highest level of protection to sensitive loads

# Wiring



## **Dimensions**



### **Standards**

IEC 61643-11:2011 AS/NZS 1768:2007 UL 1449 3rd edition IEEE 62.41.2:2002 SPD connected to low-voltage power systems - Type 1+2 A.C. power system SPD - Cat C, B

Low voltage SPD - Type 2 Low voltage SPD - Cat B

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## Product Datasheet

## **Electrical Specifications**

Connection type	¥	Series
Modes of protection	ħ	L-N, L-PE, N-PE
Number of ports		2
Number of phases	≔	1
Location		Indoor
Nominal voltage	U <sub>o</sub>	230VAC
Short circuit withstand level	SSCR	25kA
Maximum backup fuse	<b>=</b>	10A
Earth leakage current	I <sub>PE</sub>	<10µA

## Electrical (L-N) Specifications

Maximum load current	I <sub>L</sub>	10A
Maximum continuous voltage AC	U <sub>c</sub>	275VAC
Maximum voltage drop (% of Uo)		<1%
3dB frequency @ 50Ω		2600Hz
Maximum discharge current (8/20 μs)	I <sub>max</sub>	50kA
Nominal discharge current (8/20 µs)	I <sub>n</sub>	20kA
Lightning impulse current (10/350 μs)	l <sub>imp</sub>	6.25kA
Voltage protection level (3kA 8/20µs)	U <sub>p</sub>	<600V
Voltage protection level (In)	U <sub>p</sub>	<1000V
Response time	t <sub>A</sub>	Instantaneous
Voltage withstand (5s)	U <sub>T</sub>	335V

## Electrical (N-PE) Specifications

Maximum continuous voltage	$\mathbf{U}_{\mathrm{c}}$	255VAC
Maximum discharge current (8/20 μs)	l <sub>max</sub>	25kA
Lightning impulse current (10/350 μs)	l <sub>imp</sub>	2kA
Nominal discharge current (8/20 µs)	l <sub>n</sub>	10kA
Voltage protection level (1kV/µs)	U <sub>p</sub>	<1200V
Voltage protection level (In)	U <sub>p</sub>	<1500V
Response time	t <sub>A</sub>	<100ns
Voltage withstand (200ms)	U <sub>T</sub>	1200V
Follow current interrupt rating	l <sub>fi</sub>	20A

## **Indication Specifications**

Display	$\Box$	LED power and thermal failure
Alarm	$\Diamond$	SPDT power and thermal failure
Alarm isolation	<u>ڳ</u>	4kV

## **Mechanical Specifications**

Minimum operating temperature	P	-40°C
Maximum operating temperature	1	70°C
Minimum operating humidity	%	5%
Maximum operating humidity	<b>&amp;</b>	95%
Mounting method	æ	TS35 DIN Rail
Environmental rating	ŵ	IP20
Enclosure material	•	Aluminium
Enclosure finish	•	Black powdercoat
Terminal capacity - power	•	16mm²
Terminal screw torque - power	G	2Nm
Terminal capacity - alarms	•	2.5mm²
Terminal screw torque - alarms	G	0.5Nm
Length	~	96mm
Width	<b></b>	72mm
Height	1	69mm

## Other Specifications

Product Code SFD1-10-50-275-A

## **Shipping Specifications**

Weight	Â	440g
Customs tariff	*	85354010



Novaris