

## SFD3-10-50-275-A

**Three 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**

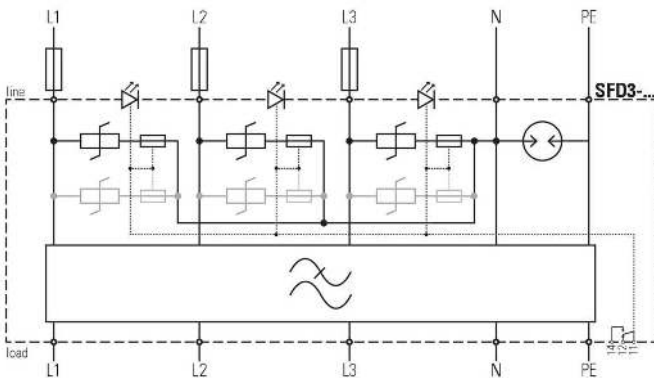
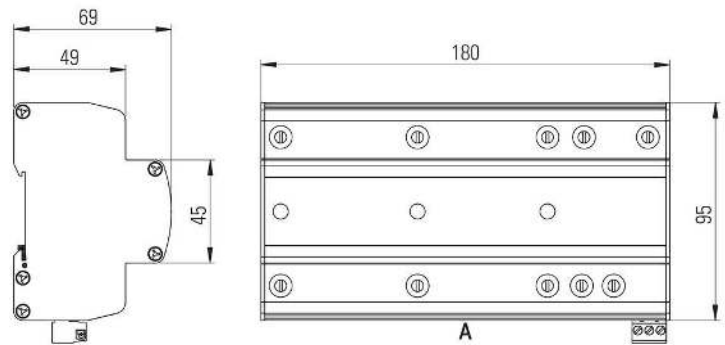
Protection is provided for all combinations of lines (L-N, L-E, N-E) ensuring the maximum level of protection is achieved at all times.

**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 (distribution), Type 3 (< 10 m from device)  
Low voltage SPD - Cat B (indoor), Cat C (< 10 m from device)

## Product Datasheet

## Electrical Specifications

Connection type		Series
Modes of protection		L-N, L-PE, N-PE
Number of ports		2
Number of phases		3
Location		Indoor
Nominal voltage	$U_0$	230VAC
Short circuit withstand level	$I_{SSCR}$	25kA
Maximum backup fuse		10A
Earth leakage current	$I_{PE}$	<10 $\mu$ A

## Electrical (L-N) Specifications

Maximum load current	$I_L$	10A
Maximum continuous voltage AC	$U_C$	275VAC
Maximum voltage drop (% of $U_0$ )		<1%
3dB frequency @ 50 $\Omega$		2600Hz
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	50kA
Nominal discharge current (8/20 $\mu$ s)	$I_n$	20kA
Lightning impulse current (10/350 $\mu$ s)	$I_{imp}$	6.25kA
Voltage protection level (3kA 8/20 $\mu$ s)	$U_p$	<600V
Voltage protection level (In)	$U_p$	<1000V
Response time	$t_A$	Instantaneous
Voltage withstand (5s)	$U_T$	335V

## Electrical (N-PE) Specifications

Maximum continuous voltage	$U_C$	255VAC
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	60kA
Lightning impulse current (10/350 $\mu$ s)	$I_{imp}$	15kA
Nominal discharge current (8/20 $\mu$ s)	$I_n$	50kA
Voltage protection level (1kV/ $\mu$ s)	$U_p$	<1200V
Voltage protection level (In)	$U_p$	<1500V
Response time	$t_A$	<100ns
Voltage withstand (200ms)	$U_T$	1200V
Follow current interrupt rating	$I_{fi}$	100A

## Indication Specifications

Display		LED power and thermal failure
Alarm		SPDT power and thermal failure
Alarm isolation		4kV

## Mechanical Specifications

Minimum operating temperature		-40°C
Maximum operating temperature		70°C
Minimum operating humidity		5%
Maximum operating humidity		95%
Mounting method		TS35 DIN Rail
Environmental rating		IP20
Enclosure material		Aluminium
Enclosure finish		Black powdercoat
Terminal capacity - power		16mm <sup>2</sup>
Terminal screw torque - power		2Nm
Terminal capacity - alarms		2.5mm <sup>2</sup>
Terminal screw torque - alarms		0.5Nm
Length		95mm
Width		180mm
Height		69mm

## Other Specifications

Product Code SFD3-10-50-275-A

## Shipping Specifications

Weight		1.2kg
Customs tariff		85354010