SFD1-10-50-275



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.

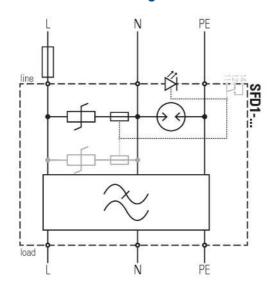
Safe Metal Enclosure

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.

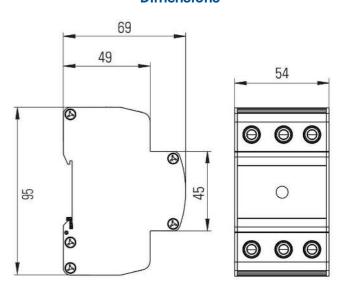
Three Stages of Protection

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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Novaris

Product Datasheet

Electrical Specifications

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

Electrical (L-N) Specifications

Maximum load current	I _L	10A
Maximum continuous voltage AC	U _c	275VAC
Maximum voltage drop (% of Uo)		<1%
3dB frequency @ 50Ω		2600Hz
Maximum discharge current (8/20 μs)	l _{max}	50kA
Nominal discharge current (8/20 µs)	I _n	20kA
Lightning impulse current (10/350 μs)	I _{imp}	6.25kA
Voltage protection level (3kA 8/20µs)	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	\mathbf{U}_{c}	255VAC
Maximum discharge current (8/20 μs)	l _{max}	25kA
Lightning impulse current (10/350 μs)	l _{imp}	2kA
Nominal discharge current (8/20 µs)	I _n	10kA
Voltage protection level (1kV/µs)	U _p	<1000V
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

Mechanical Specifications

Minimum operating temperature	P	-40°C
Maximum operating temperature	ı	70°C
Minimum operating humidity	%	5%
Maximum operating humidity	&	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
Length	~	95mm
Width	~	54mm
Height	1	69mm

Other Specifications

Product Code SFD1-10-50-275

Shipping Specifications

Weight	Â	440g
Customs tariff	*	85354010



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