SFD2-6-10-275 - Two Phase DIN Mount Surge Filters



The Novaris SFD2 range of surge filters is designed for protecting floating AC or DC power supplies. Applications include DC power supplies, balanced circuits for rail applications and single phase IT systems.

Multistage Protection

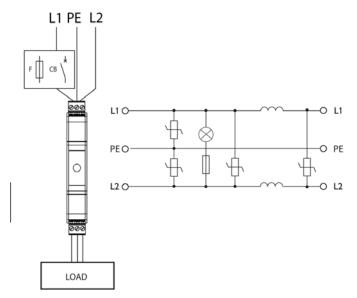
The SFD2 uses 3 stages of protection to provide a low let through voltage. The first stage comprises a delta configuration of metal oxide varistors to provide clamping between both lines and between each line and earth. The second stage is a low pass filter providing instantaneous protection against high frequency impulses. The third stage is a line to line metal oxide varistor to provide an extra level of protection against primary and load side surges.

No Earth Leakage

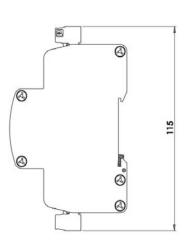
The SFD2 configuration results in zero earth leakage under normal operating conditions. The earth reference for the product is isolated using a spark gap. This means even in the event of a short circuit failure within the device, no current will pass to earth.

Installation Independent Performance

Series surge protectors such as the SSP and SFD range house the shunt (parallel) connection of the protection components internally within the device. This reduces the connection impedance to a minimum to guarantee optimal performance in all installations.







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 2+3 A.C. power system SPD - Cat C, B, A Low voltage SPD - Type 2, 3 Low voltage SPD - Cat B

Specifications

Electrical Specifications

Connection type	¥	Series
Modes of protection	ħ	L-N, L-PE, N-PE
Number of phases	≔	2
Nominal voltage	U _o	230VAC
Short circuit withstand level	SSCR	10kA
Maximum backup fuse	=	6A
Earth leakage current	I _{pe}	<500μA

Electrical (L-N) Specifications

Maximum load current	I _L	6A
Maximum continuous voltage	U _c	275VAC
Maximum Continuous Voltage DC	U _c	Required spec absent
Maximum voltage drop (% of Uo)		<1%
Maximum discharge current (8/20 μs)	max	10kA
3dB frequency @ 50Ω		Required spec absent
Nominal discharge current (8/20 µs)	I _n	4kA
Lightning impulse current (10/350 μs)	I _{imp}	-
Voltage protection level (3kA 8/20µs)	U _p	<700V
Voltage protection level (In)	U _p	<900V
Response time	t _A	Instantaneous
Voltage withstand (5s)	U _T	440V

Electrical (N-PE) Specifications

Maximum continuous voltage	U _c	275VAC
Maximum discharge current (8/20 μs)	l _{max}	10kA
Lightning impulse current (10/350 μs)	l _{imp}	-
Nominal discharge current (8/20 µs)	I _n	4kA
Voltage protection level (1kV/µs)	U _p	<500V
Response time	t _A	-
Voltage protection level (In)	Up	<900V
Voltage withstand (200ms)	U _T	1200V
Follow current interrupt rating	l _{fi}	-

Indication Specifications

Display	\Box	LED power and thermal failure
Alarm	\Diamond	-
Alarm isolation	ŞŠ	-

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	Ô	IP20
Enclosure material	•	Aluminium
Enclosure finish	1	Black powdercoat
Terminal capacity - power	0	2.5mm²
Terminal screw torque - power	G	0.5Nm
Terminal capacity - alarms	0	-
Terminal screw torque - alarms	G	-
Length	~	115mm
Width	+	18mm
Height	1	69mm

Other Specifications

Product Code SFD2-6-10-275

Shipping Specifications

 Weight
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 350g

 Customs tariff
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 85354010

