IFD2-10-12-30



Two Phase DIN Mount Surge Filters

The Novaris IFD2 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 IFD2 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 IFD2 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.

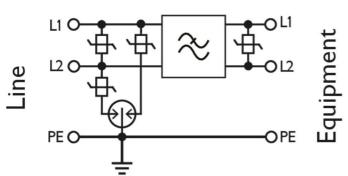
Safe Metal Enclosure

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

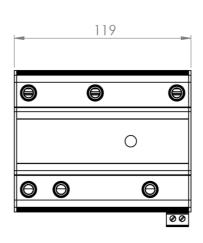
Installation Independent Performance

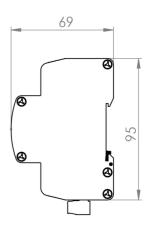
Series surge protectors such as the SSP and IFD range house the shunt (parallel) connection of the protection components internally within the device. This reduces the connection impedance to a minimum to guarantee optimal performance in all installations.

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

Low voltage SPD - Cat B

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Product Datasheet

Electrical Specifications

Connection type	¥	Series
Modes of protection	ħ	L-L, L-PE
Number of ports		2
Number of phases	≔	2
Location		Indoor
Nominal voltage	U _o	24VAC
Recommended backup fuse	=	10A
Earth leakage current	I _{PE}	<10µA

Electrical (L-L) Specifications

Maximum load current		10A
Maximum continuous voltage AC	U _c	30VAC
Maximum continuous voltage DC	U _c	38VDC
3dB frequency @ 50Ω		2600Hz
Maximum discharge current (8/20 μs)	l _{max}	12kA
Nominal discharge current (8/20 µs)	I _n	8kA
Voltage protection level (3kA 8/20µs)	U _p	<180V
Response time	t _A	<5ns

Electrical (L-PE) Specifications

Maximum discharge current (8/20 μs)	l _{max}	12kA
Nominal discharge current (8/20 µs)	I _n	8kA
Voltage protection level (3kA 8/20µs)	Up	<280V
Response time	t _A	<5ns

Indication Specifications

Display	Ţ	LED power and thermal failure
Alarm	\Diamond	Passive NC Alarm
Alarm isolation	%	4kV

Mechanical Specifications

Minimum operating temperature	P	-40°C
Maximum operating temperature		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
Terminal capacity - alarms	•	2.5mm²
Terminal screw torque - alarms	G	0.5Nm
Length	~	95mm
Width	↔	119mm
Height	1	69mm

Other Specifications

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Weight	Â	950g
Customs tariff	*	85354010

