# IFD2-20-50-460



#### 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

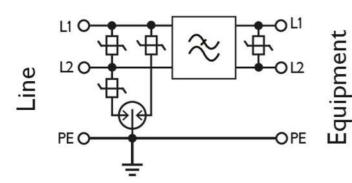
Novaris power protection products are housed in safe, all metal enclosures. In the event of a prolonged overvoltage they will not catch fire or explode.

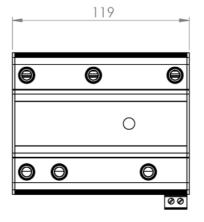
#### Installation Independent Performance

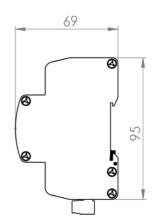
Series surge protectors such as the SSP and IFD range house the shunt (parallel) connection of the protection components internally within the device. This reduces the connection impedance to a minimum to guarantee optimal performance in all installations.

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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## **Electrical Specifications**

Connection type	¥	Series
Modes of protection	Y	L-L, L-PE
Number of ports		2
Number of phases	≔	2
Location		Indoor
Nominal voltage	Uo	400VAC
Maximum backup fuse	⇔	20A

## Electrical (L-L) Specifications

Maximum load current		20A
Maximum continuous voltage AC	U <sub>c</sub>	460VAC
Maximum continuous voltage DC	U <sub>c</sub>	615VDC
3dB frequency @ 50Ω		800Hz
Maximum discharge current (8/20 µs)	l <sub>max</sub>	50kA
Nominal discharge current (8/20 µs)	I,	20kA
Voltage protection level (3kA 8/20µs)	U <sub>p</sub>	<700V

## **Electrical (L-PE) Specifications**

Maximum discharge current (8/20 µs)	l <sub>max</sub>	40kA
Nominal discharge current (8/20 µs)	I,	40kA
Voltage protection level (1kV/µs)	U <sub>p</sub>	<700V
Response time	t <sub>A</sub>	<100ns
Voltage protection level (In)	U <sub>p</sub>	<1000V

## Indication Specifications

Display	₽	LED power and thermal failure
Alarm	¢	Passive NC Alarm
Alarm isolation	<u>ج</u>	4kV

#### **Mechanical Specifications**

Minimum operating temperature	ß	-40°C
Maximum operating temperature	l	70°C
Minimum operating humidity	٢	5%
Maximum operating humidity	۵	95%
Mounting method	₽ <sup>C</sup>	TS35 DIN Rail
Environmental rating	ŵ	IP20
Enclosure material	Ø	Aluminium
Enclosure finish		Black powdercoat
Terminal capacity - power	0	16mm²
Terminal screw torque - power	G	2Nm
Terminal capacity - alarms	0	2.5mm <sup>2</sup>
Terminal screw torque - alarms	G	0.5Nm
Length	2	95mm
Width	↔	119mm
Height	1	69mm

### **Other Specifications**

Product Code IIII IFD2-20-50-460

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Distributed by: PowerCom Solutions Pty Ltd Ph: 1800 626 161 E: sales@powercomsolutions.com.au

# Shipping Specifications

Weight	Â	950g
Customs tariff	*	85354010

