

## IDD2-50-220-A



Image for illustrative purposes only

### ELV Isolated Surge Diverters

Novaris IDD2 surge diverters provide all mode surge protection for isolated (floating) AC and DC power feeds. Under normal operation the IDD2 diverters have very low earth leakage currents, in the microamp range so will not affect any earth leakage detection systems. The IDD2-xxx-220 is also suitable for protecting single phase TT systems, IT systems and 2 wire systems with centre tapped earths with operating frequencies of 50Hz-60Hz, such as used in the Philippines. The IDD2 is housed in a safe metal enclosure that is DIN compliant and in the event of prolonged over-voltages will not catch fire or explode. The IDD2 incorporates an LED display indicating the status of the product, in normal operation the LED is lit, an extinguished LED indicates a component failure or thermal overload.

### All Mode Protection

Protection is provided for all combinations of lines (L-L, L-E).

### LED Display

The IDD2 LED display indicates power status and thermal overload.

### Passive Alarm

The IDD2 features a passive alarm with a normally closed connection.

### Safe Metal Enclosure

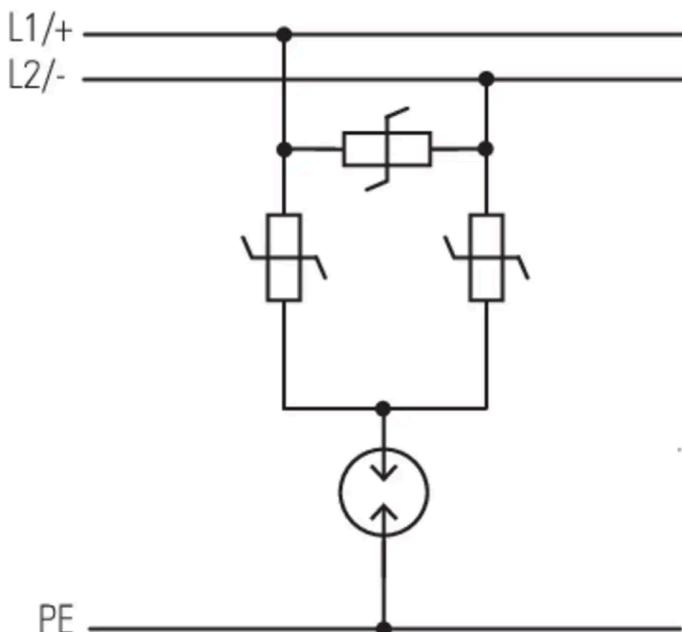
Novaris power protection products are housed in safe, all metal enclosures. In the event of a prolonged overvoltage they will not catch fire or explode.

### No Leakage Current

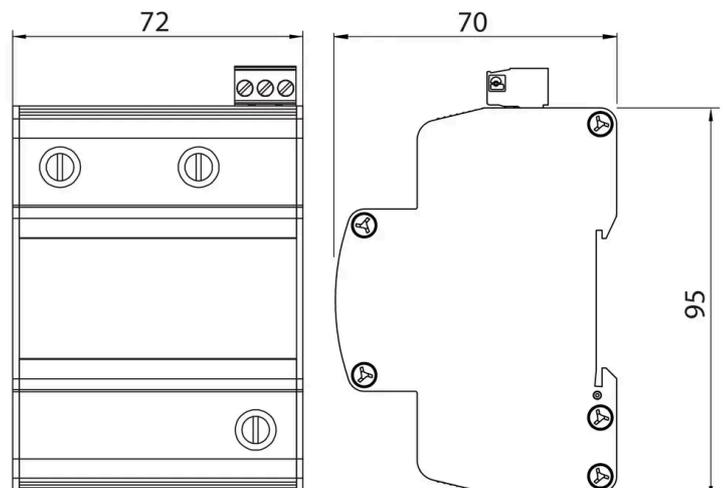
The earth reference for the product is isolated using a gas discharge tube. This means even in the event of a short circuit failure within the device, no current will pass to earth.

The colour of the grommets will change starting from 2026. All phases will be black, neutral will be black, and earth will be green

### Wiring



### Dimensions



## Product Datasheet

## Electrical Specifications

Connection type		Shunt
Modes of protection		L-L, L-PE
Number of ports		1
Number of phases		2
Location		Indoor
Nominal voltage	$U_0$	220VAC
Short circuit withstand level	$I_{SSCR}$	25kA
Maximum backup fuse		32A
Recommended SCB		SCB1-3-80
Earth leakage current	$I_{PE}$	<10 $\mu$ A

## Electrical (L-L) Specifications

Maximum continuous voltage	$U_c$	320V
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	50kA
Nominal discharge current (8/20 $\mu$ s)	$I_n$	20kA
Voltage protection level (3kA 8/20 $\mu$ s)	$U_p$	<920V
Voltage protection level (In)	$U_p$	<1200V
Response time	$t_A$	<25ns

## Electrical (L-PE) Specifications

Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	60kA
Nominal discharge current (8/20 $\mu$ s)	$I_n$	50kA
Voltage protection level @ 3 kA 8/20 $\mu$ s	$U_p$	<1100V
Voltage protection level @ 1 kV/ $\mu$ s	$U_p$	<1300V

## 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		72mm
Height		70mm

## Standard Specifications

IEC 61643-11	SPD connected to low-voltage power systems - Type 2
AS 1768	Low voltage SPD - Type 2
IEEE 62.41.2	Low voltage SPD - Cat B
UL 1449	Low voltage SPD - Type 2

## Shipping Specifications

Weight		300g
Customs tariff		85363000, 85363010

## Other Specifications

Product Code		IDD2-50-220-A
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