

IDD2-12-30



ELV Isolated Surge Diverters

Novaris IDD2 diverters provide surge protection for isolated AC and DC power feeds. The IDD2 provides both common and transverse mode protection with earth leakage current in the microamp range. The IDD2 range was previously labelled SDD2.

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

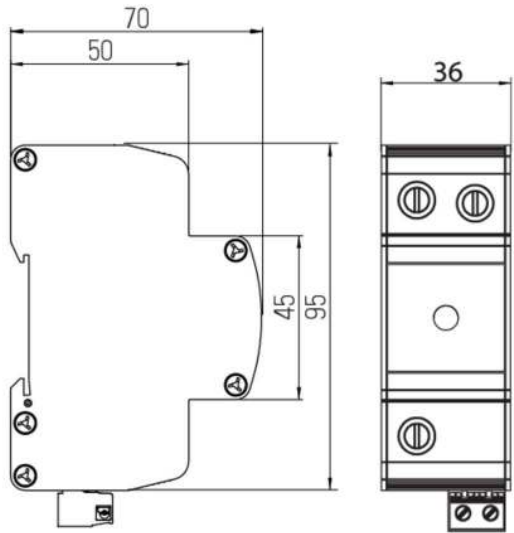
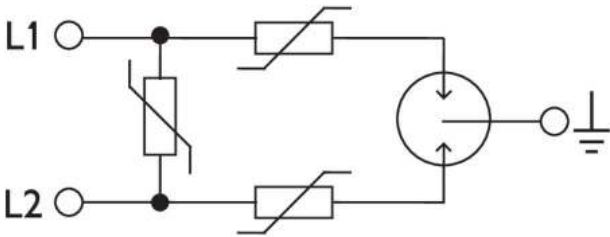
Novaris power protection products are housed in safe, all metal enclosures. In the event of a prolonged overvoltage they will not catch fire or explode.

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.

Wiring

Dimensions






Standards

IEC 61643-11  
IEC 61643-21  
IEEE C62.41

SPD connected to low-voltage power systems - Type 2  
SPD connected to telecommunications and signaling networks  
Low voltage SPD - Cat B

## Product Datasheet

## Electrical Specifications

Connection type		Shunt
Modes of protection		L-L, L-PE
Number of ports		1
Location		Indoor
Nominal voltage	$U_0$	24VAC/VDC
Maximum backup fuse		10A
Recommended SCB		SCB1-3-80
Earth leakage current	$I_{PE}$	<10 $\mu$ A

## Electrical (L-L) Specifications

Maximum continuous voltage AC	$U_c$	30VAC
Maximum continuous voltage DC	$U_c$	36VDC
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	12kA
Nominal discharge current (8/20 $\mu$ s)	$I_n$	6kA
Voltage protection level (3kA 8/20 $\mu$ s)	$U_p$	<165V
Response time	$t_A$	<5ns
















## Electrical (L-PE) Specifications

Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	6kA
Nominal discharge current (8/20 $\mu$ s)	$I_n$	3kA
Total current		12kA
Voltage protection level (3kA 8/20 $\mu$ s)	$U_p$	<240V
Voltage protection level (1kV/ $\mu$ s)	$U_p$	<130V
Response time	$t_A$	<5ns

## Indication Specifications

Display		LED power and thermal failure
Alarm		Passive alarm
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		36mm
Height		70mm

## Other Specifications

Product Code		IDD2-12-30
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## Shipping Specifications

Weight		230g
Customs tariff		85363000, 85363010