IDD2-12-14

Image for illustrative purposes only

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

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.
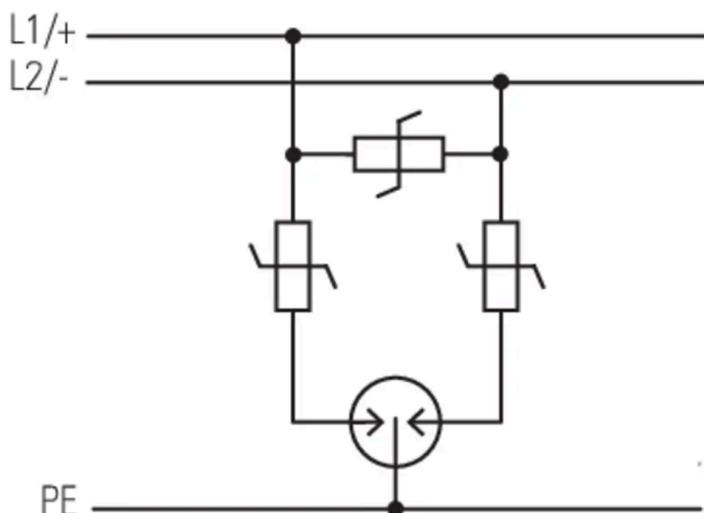
No Leakage Current

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.
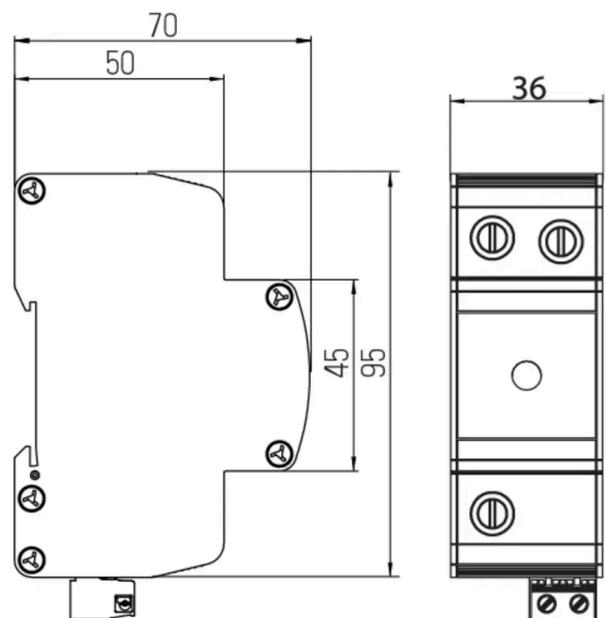
Wiring

Dimensions

72 Browns Road, Kingston Tasmania 7050 Australia
+61 3 6229 7233   sales@novaris.com.au

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Product Datasheet

Electrical Specifications

Connection type		Shunt
Modes of protection		L-L, L-PE
Number of ports		1
Location		Indoor
Nominal voltage	U_0	12VAC/DC
Maximum backup fuse		10A
Earth leakage current	I_{PE}	<10µA

Electrical (L-L) Specifications

Maximum continuous voltage AC	U_c	14VAC
Maximum continuous voltage DC	U_c	18VDC
Maximum discharge current (8/20 µs)	I_{max}	12kA
Nominal discharge current (8/20 µs)	I_n	6kA
Voltage protection level (3kA 8/20µs)	U_p	<110V
Response time	t_A	<25ns

Electrical (L-PE) Specifications

Maximum discharge current (8/20 µs)	I_{max}	6kA
Nominal discharge current (8/20 µs)	I_n	3kA
Total current		12kA
Voltage protection level @ 3 kA 8/20 µs	U_p	175V
Voltage protection level @ 1 kV/ µs	U_p	<90V
Response time	t_A	<25ns

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		16mm²
Terminal screw torque - power		2Nm
Terminal capacity - alarms		2.5mm²
Terminal screw torque - alarms		0.5Nm
Length		95mm
Width		36mm
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		225g
Customs tariff		85363000, 85363010

Other Specifications

Product Code		IDD2-12-14

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