

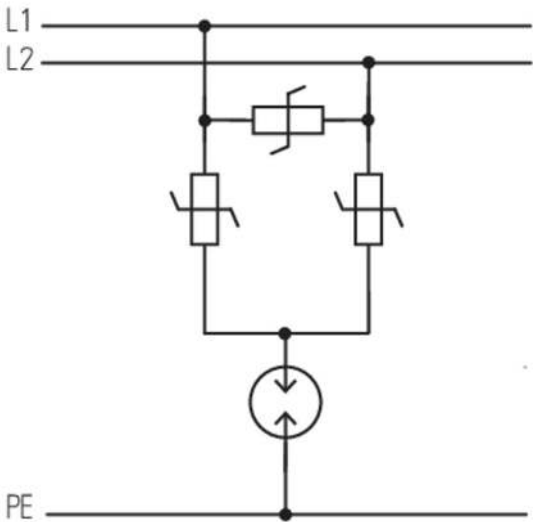
IDD2-100-220-A



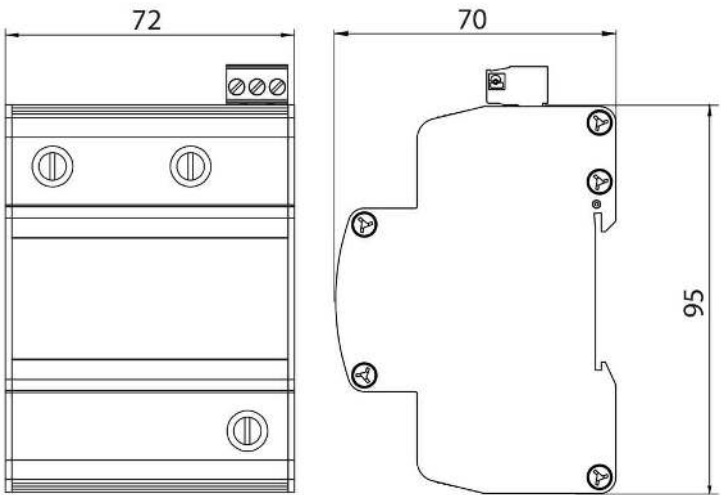
Isolated Surge Diverters

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.

Wiring



Dimensions



Standards

- | | |
|---------------------|---|
| IEC 61643-11:2011 | SPD connected to low-voltage power systems - Type 2 |
| AS1768 | Low voltage SPD - Type 2 |
| IEEE 62.41.2:2002 | Low voltage SPD - Cat B |
| UL 1449 3rd edition | Low voltage SPD - Type 2 |

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	220V
Short circuit withstand level	I_{SSCR}	50kA
Maximum backup fuse		63A
Recommended SCB		SCB1-3-80
Earth leakage current	I_{PE}	<10 μ A

Electrical (L-L) Specifications

Maximum continuous voltage	U_c	320V
Maximum discharge current (8/20 μ s)	I_{max}	100kA
Nominal discharge current (8/20 μ s)	I_n	40kA
Voltage protection level (3kA 8/20 μ s)	U_p	<920V
Voltage protection level (In)	U_p	<1200V
Response time	t_A	<5ns

Electrical (L-PE) Specifications

Maximum discharge current (8/20 μ s)	I_{max}	100kA
Nominal discharge current (8/20 μ s)	I_n	80kA
Voltage protection level (3kA 8/20 μ s)	U_p	<1100V
Voltage protection level (1kV/ μ s)	U_p	<1300V
Response time	t_A	<5ns

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 ²
Terminal screw torque - power		2Nm
Terminal capacity - alarms		2.5mm ²
Terminal screw torque - alarms		0.5Nm
Length		95mm
Width		72mm
Height		70mm

Other Specifications

Product Code		IDD2-100-220-A
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Shipping Specifications

Weight		300g
Customs tariff		85363000, 85363010