IDD2-40-50



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

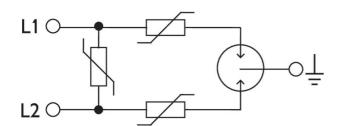
Novaris power protection products are housed in safe, all metal enclosures. In the event of a prolonged overvoltage they will not catch fire or explode.

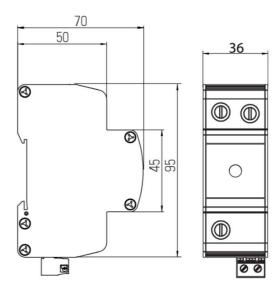
No Leakage Current

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.

Dimensions

Wiring





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

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Product Datasheet

Electrical Specifications

Connection type	¥	Shunt
Modes of protection	h	L-L, L-PE
Number of ports		1
Location		Indoor
Nominal voltage		40) (4.0 () (D.0
Norminal voltage	U	48VAC/VDC
Maximum backup fuse	0, =	48VAC/VDC 32A
0	•	

Electrical (L-L) Specifications

Maximum continuous voltage AC	U _c	50VAC
Maximum continuous voltage DC	U _c	70VDC
Maximum discharge current (8/20 µs)	l _{max}	40kA
Nominal discharge current (8/20 µs)	I _n	20kA
Voltage protection level (3kA 8/20µs)	U	<200V
Response time	t _A	<5ns

Electrical (L-PE) Specifications

Maximum discharge current (8/20 µs)	l _{max}	20kA
Nominal discharge current (8/20 µs)	I,	10kA
Total current		40kA
Voltage protection level (3kA 8/20µs)	U _p	<280V
Voltage protection level (1kV/µs)	U _p	<155V
Response time	t _A	<5ns

Indication Specifications

Display	Ţ	LED power and thermal failure
Alarm	¢	Passive alarm
Alarm isolation	<u>ڳ</u> خ	4kV

Mechanical Specifications

Minimum operating temperature	ß	-40°C
Maximum operating temperature	l	70°C
Minimum operating humidity	۲	5%
Maximum operating humidity	٨	95%
Mounting method	øC	TS35 DIN Rail
Environmental rating	ŵ	IP20
Enclosure material	Ŷ	Aluminium
Enclosure finish		Black powdercoat
Terminal capacity - power	Θ	16mm ²
Terminal screw torque - power	C	2Nm
Terminal capacity - alarms	Θ	2.5mm ²
Terminal screw torque - alarms	C	0.5Nm
Length	2	95mm
Width	↔	36mm
Height	1	70mm

Other Specifications

Product Code

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Shipping Specifications

Weight	â	215g
Customs tariff	*	85363000, 85363010

