

## IDD3-50-D480-A



Image for illustrative purposes only

**Delta Connected Surge Diverter**

The Novaris IDD3 range has been designed for use in delta connected systems and is DIN compliant.

**All Mode Protection**

Protection is provided for all combinations of lines ensuring the maximum level of protection is achieved at all times.

**Thermal Sensing**

Sustained overvoltages can cause components to overheat and degrade. Thermal sensing warns of this condition without disconnecting the protection.

**LED Status Active Display**

The LED display indicates phase status and normal operation when all LEDs are lit. An extinguished LED indicates a component failure or thermal overload.

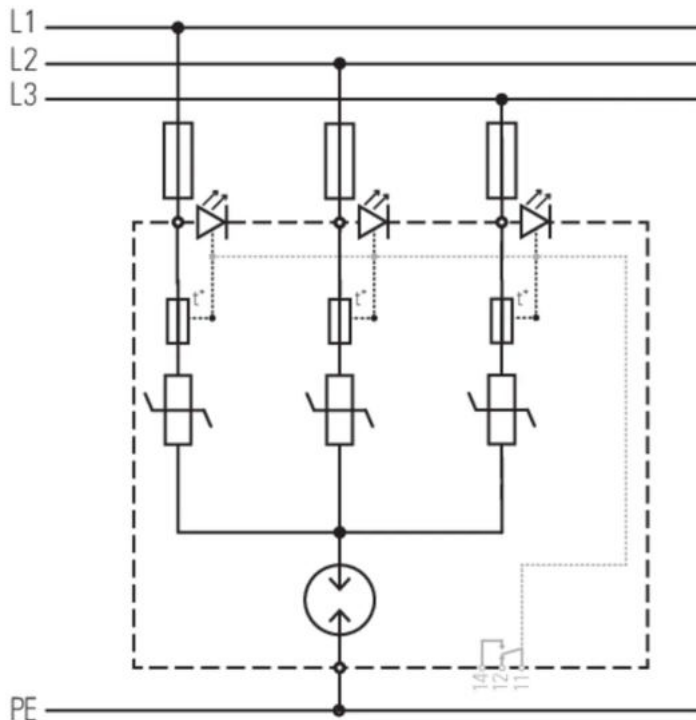
**Safe Metal Enclosure**

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.

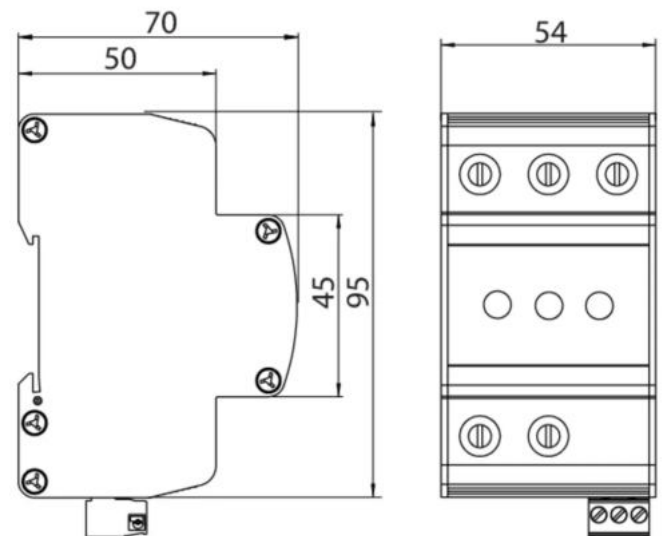
**Optional Alarm Feature**

An optional voltage free alarm (suffix -A) contact is available, providing the ability to remotely monitor both power and the status of the SPD.

## Wiring



## Dimensions



## Product Datasheet
















### Electrical (L-PE) Specifications

Maximum continuous voltage AC	$U_c$	480VAC
Maximum continuous voltage DC	$U_c$	670VDC
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	50kA
Lightning impulse current (10/350 $\mu$ s)	$I_{imp}$	6.25kA
Nominal discharge current (8/20 $\mu$ s)	$I_n$	20kA
Voltage protection level @ 1 kV/ $\mu$ s	$U_p$	800V
Voltage protection level (In)	$U_p$	<1500V
Response time	$t_A$	<5ns





### Other Specifications

Product Code		IDD3-50-D480-A
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### 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		54mm
Height		70mm

### Electrical Specifications

Connection type		Shunt
Modes of protection		L-L & L-PE
Number of ports		1
Number of phases		3
Location		Indoor
Nominal voltage	$U_0$	400VAC
Short circuit withstand level	$I_{SCCR}$	25kA
Maximum backup fuse		32A
Recommended SCB		SCB1-3-80
Earth leakage current	$I_{PE}$	<10 $\mu$ A




### Shipping Specifications

Weight		400g
Customs tariff		85354010

### Standard Specifications

IEC 61643-11	SPD connected to low-voltage power systems - Type 1, 2
AS 1768	Low voltage SPD - Type 2
IEEE 62.41.2	Low voltage SPD - Cat B
UL 1449	Low voltage SPD - Type 2

### Indication Specifications

Display		LED power and thermal failure
Alarm		SPDT power and thermal failure
Alarm isolation		4kV