

SDD1-20-275



DINsafe Surge Diverter

Use DIN compliant SDD Surge Diverter for distribution boards or for point of entry protection in small industrial and domestic applications. Installing two levels of surge protection, incoming and distribution boards, greatly increases the protection provided especially if there is a considerable distance between the two locations.

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.

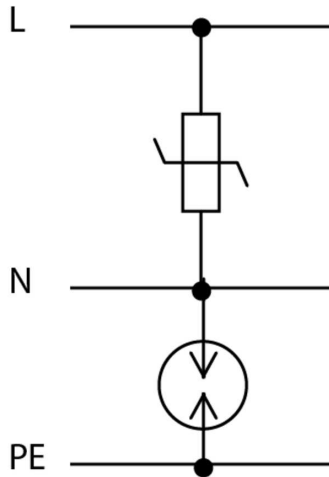
LED Status Active Display

An LED indicates that power is applied and the unit is healthy. An extinguished LED indicates that no power is present on the phase or that an internal overload has occurred.

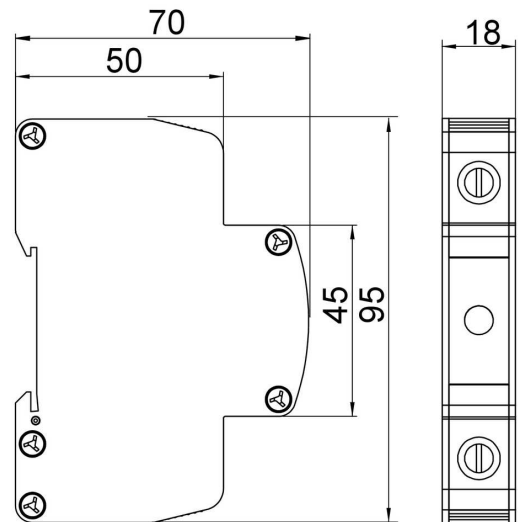
Safe Metal Enclosure

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.

Wiring



Dimensions







Standards

- IEC 61643-11:2011
- AS/NZS 1768:2007
- IEEE 62.41.2:2002
- UL 1449 3rd edition

- SPD connected to low-voltage power systems - Type 2
- Low voltage SPD - Type 2
- Low voltage SPD - Cat B
- Low voltage SPD - Type 2

## Product Datasheet

## Electrical Specifications

Connection type		Shunt
Modes of protection		L-N, L-PE, N-PE
Number of ports		1
Number of phases		1
Location		Indoor
Nominal voltage	$U_0$	230VAC
Short circuit withstand level	$I_{SSCR}$	25kA
Maximum backup fuse		16A
Recommended SCB		SCB1-3-80
Earth leakage current	$I_{PE}$	<10 $\mu$ A

## Shipping Specifications

Weight		135g
Customs tariff		85363000, 85363010


## Electrical (L-N) Specifications

Maximum continuous voltage AC	$U_c$	275VAC
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	20kA
Nominal discharge current (8/20 $\mu$ s)	$I_n$	10kA
Voltage protection level (3kA 8/20 $\mu$ s)	$U_p$	<800V
Voltage protection level (In)	$U_p$	<1500V
Voltage withstand (5s)	$U_T$	335V






## Electrical (N-PE) Specifications

Maximum continuous voltage	$U_c$	255VAC
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	25kA
Nominal discharge current (8/20 $\mu$ s)	$I_n$	10kA
Voltage protection level (1kV/ $\mu$ s)	$U_p$	<1000V
Voltage protection level (3kA 8/20 $\mu$ s)	$U_p$	<1200V
Response time	$t_A$	<100ns
Voltage withstand (200ms)	$U_T$	1200V
Follow current interrupt rating	$I_{fi}$	100A

## Indication Specifications

Display  LED power and thermal failure

## 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
Length		95mm
Width		18mm
Height		70mm

## Other Specifications

Product Code  SDD1-20-275