SDD1-50-275



DINsafe Surge Diverter

Use DIN compliant SDD Surge Diverters 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

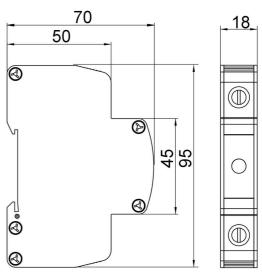
An LED indicates that power is applied and the unit is healthy. An extinguished LED indicates that no power is present on the phase or that an internal overload has occurred.

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 L N PE

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 1 & 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	ħ	L-N, L-PE, N-PE
Number of ports		1
Number of phases	≔	1
Location		Indoor
Nominal voltage	U _o	230VAC
Short circuit withstand level	Isscr	25kA
Maximum backup fuse		32A
Recommended SCB		SCB1-3-80
Earth leakage current	I _{PE}	<10μA

Electrical (L-N) Specifications

Maximum continuous voltage AC	U _c	275VAC
Maximum discharge current (8/20 µs)	l _{max}	50kA
Nominal discharge current (8/20 µs)	I _n	20kA
Lightning impulse current (10/350 μs)	l _{imp}	6.25kA
Voltage protection level (3kA 8/20µs)	U _p	<800V
Voltage protection level (In)	U _p	<1300V
Voltage withstand (5s)	U _T	335V

Electrical (N-PE) Specifications

Maximum continuous voltage	\mathbf{U}_{c}	255VAC
Maximum discharge current (8/20 μs)	l _{max}	25kA
Nominal discharge current (8/20 µs)	I,	10kA
Voltage protection level (1kV/µs)	Up	<1000V
Voltage protection level (3kA 8/20µs)	Up	<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	ß	-40°C
Maximum operating temperature	ı	70°C
Minimum operating humidity	%	5%
Maximum operating humidity	@	95%
Mounting method	Æ	TS35 DIN Rail
Environmental rating	ŵ	IP20
Enclosure material	•	Aluminium
Enclosure finish	•	Black Powdercoat
Terminal capacity - power	0	16mm²
Terminal screw torque - power	G	2Nm
Length	2	95mm
Width	+	18mm
Height	1	70mm

Other Specifications

Product Code		SDD1-50-275
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Shipping Specifications

Weight	Â	165g
Customs tariff	*	85363000, 85363010

Generated Thu Sep 09 2021

