

SDN3-100-275

All Mode Surge Diverter

Use MULTIMOV all mode high energy surge diverters for point of entry protection at main switchboards, especially where N-PE protection is required.

Redundant Segments

MULTIMOV surge diverters feature a parallel redundant arrangement of high energy metal oxide varistors (MOVs), thus promoting long life and exceptional surge handling capacity. In the event of a varistor failure the remaining segments continue to provide protection.

LED Status Active Display

The LED display indicates segment status and indicates normal operation when all LEDs are brightly lit. An extinguished LED phase segment indicates the failure of an external backup fuse, a component failure or thermal overload, activating the external alarm.

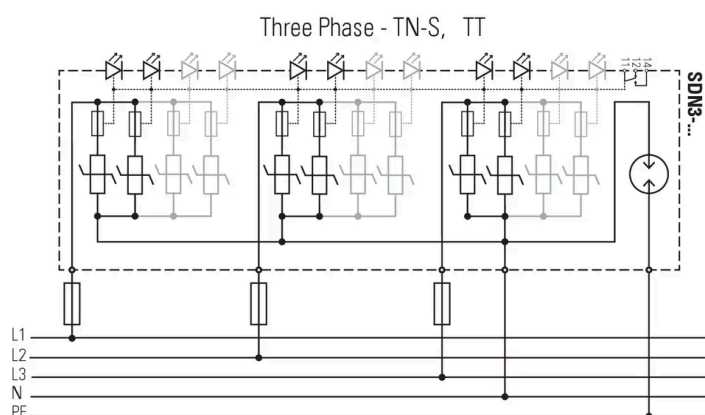
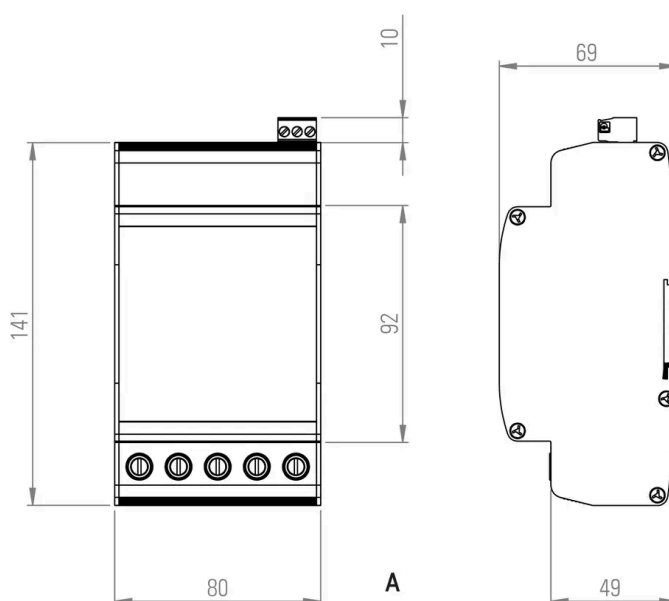
Safe Metal Enclosure

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.



Image for illustrative purposes only

The colour of the grommets will change starting from 2026. All phases will be black, neutral will be black, and earth will be green

Wiring**Dimensions**

Product Datasheet

Electrical Specifications

Connection type		Shunt
Modes of protection		L-N, L-PE, N-PE
Number of ports		1
Number of phases		3
Location		Indoor
Nominal voltage	U_0	230VAC
Short circuit withstand level	I_{SCCR}	50kA
Maximum backup fuse		63A
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)	I_{max}	100kA
Nominal discharge current (8/20 μs)	I_n	40kA
Lightning impulse current (10/350 μs)	I_{imp}	12.5kA
Voltage protection level (3kA 8/20μs)	U_p	<700V
Voltage protection level (In)	U_p	<1500V
Response time	t_A	<25ns
Voltage withstand (5s)	U_T	335V

Electrical (N-PE) Specifications

Maximum continuous voltage	U_c	255VAC
Maximum discharge current (8/20 μs)	I_{max}	100kA
Nominal discharge current (8/20 μs)	I_n	50kA
Lightning impulse current (10/350 μs)	I_{imp}	50kA
Voltage protection level (1kV/μs)	U_p	<1000V
Response time	t_A	<25ns
Voltage withstand (200ms)	U_T	1200V
Follow current interrupt rating	I_{fi}	100A

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/Optional Panel kit
Environmental rating		IP20
Enclosure material		Aluminium
Enclosure finish		Black Powdercoat
Terminal capacity - power		16mm²
Terminal screw torque - power		2Nm
Terminal capacity - alarms		2.5mm²
Terminal screw torque - alarms		0.5Nm
Length		141mm
Width		80mm
Height		69mm

Standard Specifications

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

Shipping Specifications

Weight		730g
Customs tariff		85363000, 85363010

Other Specifications

Product Code		SDN3-100-275
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