## SSP1-32-100-275-A



### SSP1 Series Surge Protectors

The Novaris SSP1 range of surge protectors are designed to provide economic protection to AC power circuits where the neutral conductor is earthed in the distribution system. They are in a two port series configuration with load currents up to 63A and with differing levels of surge current rating. They are suitable for the typical 230/240V AC supplies whether TN-C-S or TI configuration and provide all mode protection for where the neutral earth point might be some distance from the SPD.

### Compact Design

Their compact design makes them an ideal choice for space restricted applications.

### All Mode Protection

Protection is provided for all combinations of lines (L-N, L-PE, N-PE) ensuring the maximum level of protection is achieved at all times.

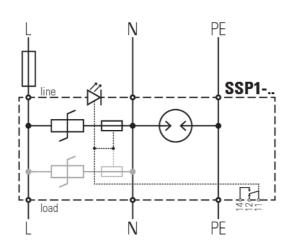
### Safe Metal Enclosure

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

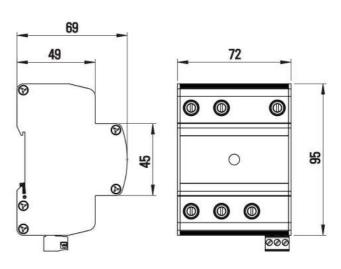
### Installation Independent Performance

Series surge protectors house the shunt (parallel) connection of the protection components internally within the device. This reduces the connection impedance to a minimum to guarantee optimal performance in all installations

# Wiring



## **Dimensions**



### **Standards**

IEC 61643-11 AS/NZS 1768 UL 1449 IEEE 62.41.2 SPD connected to low-voltage power systems - Type 2 + 3
A.C. power system SPD - Cat C, B, A
Low voltage SPD - Type 2, Type 3
Low voltage SPD - Cat B, Cat C

Generated Wed Jun 16 2021

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# **Product Datasheet**

## **Electrical Specifications**

Connection type	¥	Series
Modes of protection	ħ	L-N, L-PE, N-PE
Number of ports		2
Number of phases	≔	1
Location		Indoor
Nominal voltage	U <sub>o</sub>	230VAC
Short circuit withstand level	SSCR	25kA
Maximum backup fuse	<b>=</b>	32A
Earth leakage current	I <sub>PE</sub>	<10µA

# Electrical (L-N) Specifications

Maximum load current	I <sub>L</sub>	32A
Maximum continuous voltage AC	U <sub>c</sub>	275VAC
Maximum discharge current (8/20 μs)	l <sub>max</sub>	100kA
Nominal discharge current (8/20 µs)	l <sub>n</sub>	40kA
Lightning impulse current (10/350 µs)	l <sub>imp</sub>	12.5kA
Voltage protection level (3kA 8/20µs)	U <sub>p</sub>	<800V
Voltage protection level (In)	U <sub>p</sub>	<1700V
Response time	t <sub>A</sub>	<5ns
Voltage withstand (5s)	U <sub>T</sub>	335V

## Electrical (N-PE) Specifications

Maximum continuous voltage	$\mathbf{U}_{\mathrm{c}}$	255VAC
Maximum discharge current (8/20 μs)	l <sub>max</sub>	60kA
Lightning impulse current (10/350 μs)	l <sub>imp</sub>	15kA
Nominal discharge current (8/20 µs)	I <sub>n</sub>	50kA
Voltage protection level (1kV/µs)	U <sub>p</sub>	<700V
Response time	t <sub>A</sub>	<100ns
Voltage withstand (200ms)	U <sub>T</sub>	1200V
Follow current interrupt rating	l <sub>fi</sub>	100A

## **Indication Specifications**

Display	$\Box$	LED power and thermal failure
Alarm	$\Diamond$	SPDT power and thermal failure
Alarm isolation	<b>%</b>	4kV

# **Mechanical Specifications**

Minimum operating temperature	P	-40°C
Maximum operating temperature	1	70°C
Minimum operating humidity	<b>%</b>	5%
Maximum operating humidity	<b>&amp;</b>	95%
Mounting method	Æ	TS35 DIN Rail
Environmental rating	<i></i>	IP20
Enclosure material	•	Aluminium
Enclosure finish	•	Black powdercoat
Terminal capacity - power	•	16mm²
Terminal screw torque - power	G	2Nm
Terminal capacity - alarms	•	2.5mm²
Terminal screw torque - alarms	G	0.5Nm
Length	~	95mm
Width	<b></b>	72mm
Height	1	69mm

# Other Specifications

Product Code SSP1-32-100-275-A

## **Shipping Specifications**

Weight	Â	450g
Customs tariff	*	85363000, 85363010

