# SSP1-63-100-275-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.

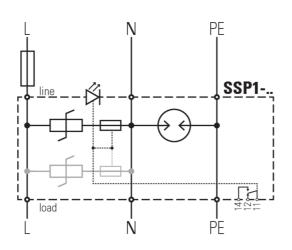
### Safe Metal Enclosure

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.

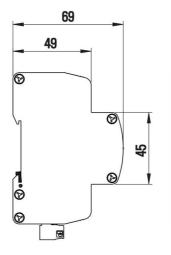
### Installation Independent Performance

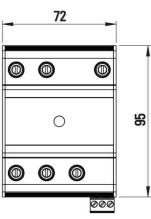
Series surge protectors house the shunt (parallel) connection of the protection components internally within the device. This reduces the connection impedance to a minimum to guarantee optimal performance in all installations.

# 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

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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	ISSCR	25kA
Maximum backup fuse	<b>=</b>	63A
Earth leakage current	I <sub>PE</sub>	<10µA

# Electrical (L-N) Specifications

Maximum load current	I <sub>L</sub>	63A
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)	I <sub>n</sub>	40kA
Lightning impulse current (10/350 μs)	l <sub>imp</sub>	12.5kA
Voltage protection level (3kA 8/20µs)	Up	<800V
Voltage protection level (In)	Up	<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	I	70°C
Minimum operating humidity	<b>%</b>	5%
Maximum operating humidity	<b>@</b>	95%
Mounting method	Æ	TS35 DIN Rail
Environmental rating	ŵ	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 SSP1-63-100-275-A

## **Shipping Specifications**

Weight	Â	460g
Customs tariff	*	85363000, 85363010

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