

Product Datasheet

SSP1-20-100-275



Image for illustrative purposes only

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 AC supplies whether TN-C-S or TT 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

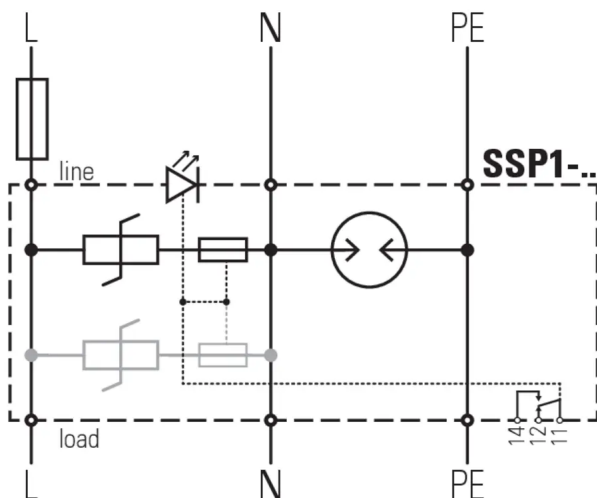
Novaris surge protection products are housed in safe, all metal enclosures. In the event of a prolonged overvoltage they will not catch fire or explode.

Installation Independent Performance

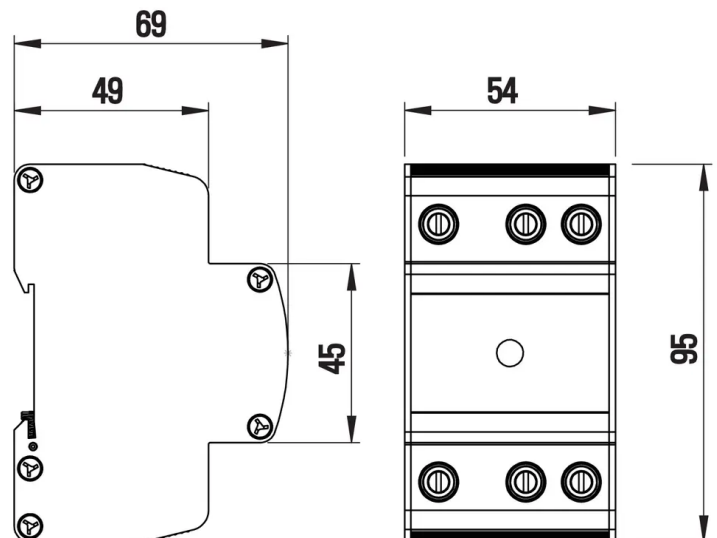
Series surge protectors house the shunt (parallel) connection of the protection components internally within the device. This reduces the connection impedance to a minimum to guarantee optimal performance in all installations.

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		Series
Modes of protection		L-N, L-PE, N-PE
Number of ports		2
Number of phases		1
Location		Indoor
Nominal voltage	U_0	230VAC
Short circuit withstand level	I_{SSCR}	25kA
Maximum backup fuse		20A
Earth leakage current	I_{PE}	<10 μ A

Electrical (L-N) Specifications

Maximum load current	I_L	20A
Maximum continuous voltage AC	U_C	275VAC
Maximum discharge current (8/20 μ s)	I_{max}	100kA
Nominal discharge current (8/20 μ s)	I_n	40kA
Lightning impulse current (10/350 μ s)	I_{imp}	12.5kA
Voltage protection level (3kA 8/20 μ s)	U_p	<800V
Voltage protection level (In)	U_p	<1700V
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 μ s)	I_{max}	60kA
Nominal discharge current (8/20 μ s)	I_n	50kA
Lightning impulse current (10/350 μ s)	I_{imp}	50kA
Voltage protection level (1kV/ μ s)	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
---------	---	-------------------------------

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 ²
Terminal screw torque - power		2Nm
Length		95mm
Width		54mm
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, A
UL 1449	Low voltage SPD - Type 1, 2
IEEE 62.41.2	Low voltage SPD - Cat B, C

Shipping Specifications

Weight		375g
Customs tariff		85363000, 85363010

Other Specifications

Product Code		SSP1-20-100-275
--------------	---	-----------------