

## SSP3-20-100-275-A

**Series Surge Protectors**

Novaris SSP protectors are suitable for installation in circuits up to 63A. The SSP range has been engineered to provide excellent performance in an economical package.

**Compact Design**

A compact design makes SSP protectors an ideal choice for space restricted applications.

**All Mode Protection**

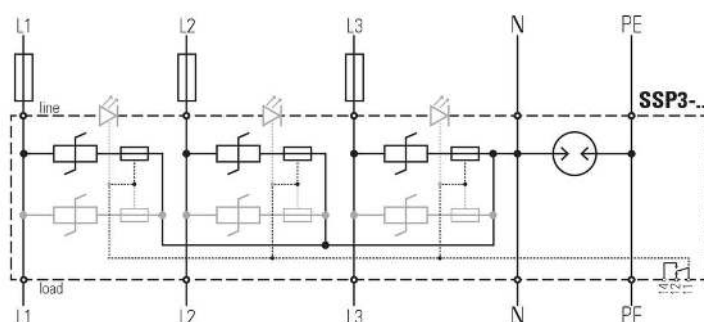
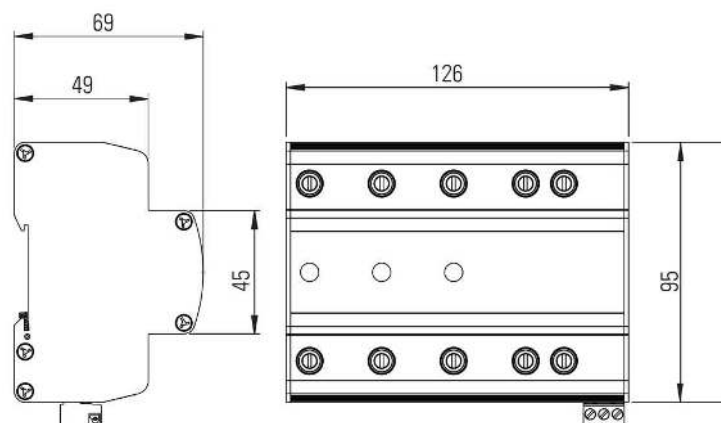
Protection is provided for all combinations of lines (L-N, L-PE, N-PE) ensuring the maximum level of protection is achieved at all times.

**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 61643-11:2011  
AS/NZS 1768:2007  
UL 1449 3rd edition  
IEEE 62.41.2:2002

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

## Product Datasheet

### Electrical Specifications

|                               |   |                 |
|-------------------------------|---|-----------------|
| Connection type               |  | Series          |
| Modes of protection           |  | L-N, L-PE, N-PE |
| Number of ports               |   | 2               |
| Number of phases              |  | 3               |
| Location                      |   | Indoor          |
| Nominal voltage               | $U_0$   | 230VAC          |
| Short circuit withstand level | $I_{SSCR}$  | 25kA            |
| Maximum backup fuse           |  | 20A             |
| Earth leakage current         | $I_{PE}$  | <10 $\mu$ A     |




### Electrical (L-N) Specifications

|   |           |        |
|---|-----------|--------|
| Maximum voltage Drop (% of $U_0$ )          |           | 0V     |
| Maximum load current                        | $I_L$     | 20A    |
| Maximum continuous voltage AC               | $U_C$     | 275VAC |
| Maximum discharge current (8/20 $\mu$ s)    | $I_{max}$ | 100kA  |
| Nominal discharge current (8/20 $\mu$ s)    | $I_n$     | 40kA   |
| Voltage protection level (3kA 8/20 $\mu$ s) | $U_p$     | <800V  |
| Voltage protection level (In)               | $U_p$     | <1700V |
| Response time                               | $t_A$     | <5ns   |
| Voltage withstand (5s)                      | $U_T$     | 335V   |
















### Electrical (N-PE) Specifications

|  |           |        |
|--|-----------|--------|
| Maximum continuous voltage               | $U_C$     | 255VAC |
| Maximum discharge current (8/20 $\mu$ s) | $I_{max}$ | 60kA   |
| Nominal discharge current (8/20 $\mu$ s) | $I_n$     | 50kA   |
| Voltage protection level (1kV/ $\mu$ s)  | $U_p$     | <700V  |
| Voltage protection level (In)            | $U_p$     | <1300V |
| 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  |
| 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      |
| Environmental rating           |  | IP20               |
| Enclosure material             |  | Aluminium          |
| Enclosure finish               |  | Black powdercoat   |
| Terminal capacity - power      |  | 16mm <sup>2</sup>  |
| Terminal screw torque - power  |  | 2Nm                |
| Terminal capacity - alarms     |  | 2.5mm <sup>2</sup> |
| Terminal screw torque - alarms |  | 0.5Nm              |
| Length                         |  | 95mm               |
| Width                          |  | 126mm              |
| Height                         |  | 69mm               |

### Other Specifications

Product Code  SSP3-20-100-275-A

### Shipping Specifications

|                |   |          |
|----------------|---|----------|
| Weight         |  | 690g     |
| Customs tariff |  | 85354010 |