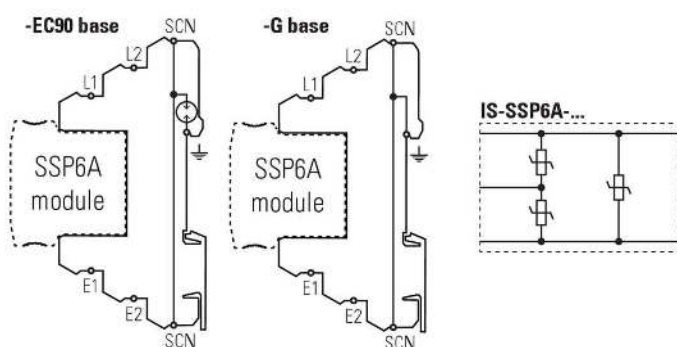


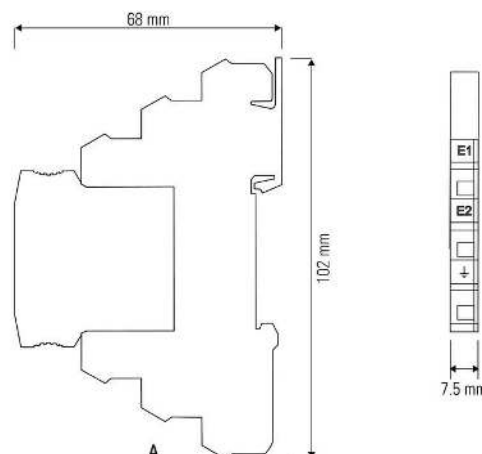
IS-SSP6A-14-G



Wiring



Dimensions



Standards

| | |
|--|--|
| Directive 94/9/EC | Equipment and protective systems intended for use in potentially explosive atmospheres |
| IEC 60079-0 | Explosive atmospheres - Part 0: Equipment - General requirements |
| IEC 60079-11 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety 'i' |
| IEC 61643-21:2012 | SPD connected to telecommunications and signalling networks - Cat C2 |
| AS/NZS 1768:2007 | Signalling/Telecommunications surge protection |
| UL 1449 3rd edition & UL 497B | Protectors for data communications and fire-alarm circuits |
| ITU-T K.44: 2012 | Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents |

Intrinsically Safe Protectors

The IS-SSP6A intrinsically safe series surge protectors complement the IS-SL range for applications of load currents up to 6A. Typical applications may include power supplies, digital outputs and other low voltage requirements up to 6A.

IEC Ex and ATEX certified

Novaris 'IS-' products have been certified intrinsically safe according to IEC Ex and ATEX; the group IIC T4 certification makes it acceptable for use with all gas/ air mixtures.

Two different earthing options

With two different base options the SL protectors offer either direct earthing via Din rail, for the most effective, low impedance earth connection (-G base) or a connection via GDT to the DIN rail, offering isolation under normal conditions and equipotential bonding during a surge (-EC90 base).

Slimline pluggable modules

The plug-in design provides simple and rapid replacement and testing - no rewiring needed. This also provides a convenient method of field equipment isolation if required.

Product Datasheet






Accreditations Specifications

| | |
|--------------------|------------------------|
| TÜV 14 ATEX 7569 X | II 1 G Ex ia IIC T4 Ga |
| IECEX ITA 14.0011X | Ex ia IIC T4 |

Other Specifications

| | |
|--------------|---------------|
| Product Code | IS-SSP6A-14-G |
|--------------|---------------|

Electrical Specifications

| | | |
|--|---|-----------------------|
| Connection type |  | Series |
| Number of lines |  | 1 pair |
| Modes of protection |  | Transverse and Common |
| Maximum continuous voltage (DC) | U_c | 14V |
| Maximum continuous voltage (AC) | U_c | 11V |
| Maximum discharge current (8/20 μ s) | I_{max} | 4.8kA |
| Maximum common mode discharge current (8/20 μ s) | | 9.6kA |
| Impulse durability C2 10x8/20 μ s | | 2.5kA |
| Maximum load current | I_L | 6A |
| AC durability 5x1s | | 1Arms |
| Overstressed fault mode | | Mode 3 |
| Response time | t_A | <5ns |
| Line resistance |  | 0.02 Ω |
| Insertion loss @ 150 Ω |  | <0.5dB @ <20kHz |
| 3 dB Frequency @ 150 Ω | | 80kHz |














Electrical (L-L) Specifications

| | | |
|--|-------|------|
| Voltage protection level @ 1 kV/ μ s | U_p | 35V |
| Voltage protection level @ 3 kA 8/20 μ s | U_p | 70V |
| Voltage protection level @ 100 V/ s | | 20V |
| Capacitance | \pm | 48nF |

Electrical (L-PE) Specifications

| | | |
|--|-------|------|
| Voltage protection level @ 1 kV/ μ s | U_p | 35V |
| Voltage protection level @ 3 kA 8/20 μ s | U_p | 70V |
| Voltage protection level @ 100 V/ s | | 20V |
| Capacitance | \pm | 48nF |

Mechanical Specifications

| | | |
|-------------------------------|---|-------------------------|
| Minimum operating temperature |  | -20°C |
| Maximum operating temperature |  | 40°C |
| Minimum operating humidity |  | 5% |
| Maximum operating humidity |  | 95% |
| Mounting method |  | TS35 DIN Rail |
| Environmental rating |  | IP20 |
| Enclosure material |  | Polycarbonate UL 94 V-0 |
| Enclosure finish |  | Blue |
| Terminal type | | Cage clamp |
| Terminal capacity |  | 2.5mm ² |
| Terminal screw torque |  | 0.5Nm |
| Earthing | | Direct |
| Length |  | 102mm |
| Width |  | 7mm |
| Height |  | 68mm |

Safety Specifications

| | |
|--------------------|------|
| Max. input voltage | 30V |
| Max. input power | 2.2W |
| Capacitance | 0 |
| Inductance | 0 |

Shipping Specifications

| | | |
|----------------|---|----------|
| Weight |  | 35g |
| Customs tariff |  | 85363000 |