

IS-SSP6A-65-G

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. The IS-SSP6A has zero earth leakage current under normal conditions and will prevent the tripping of DC supply fuses down to 2A when a transient overvoltage occurs.

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).

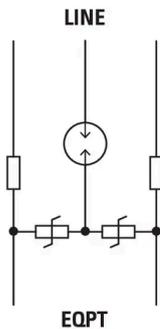
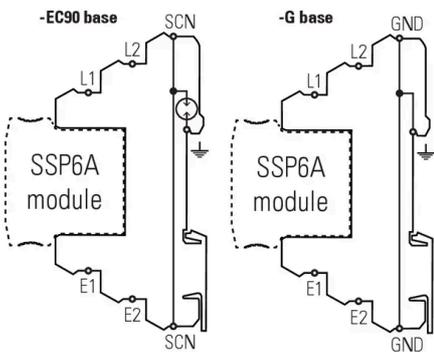
Slimline pluggable modules

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.

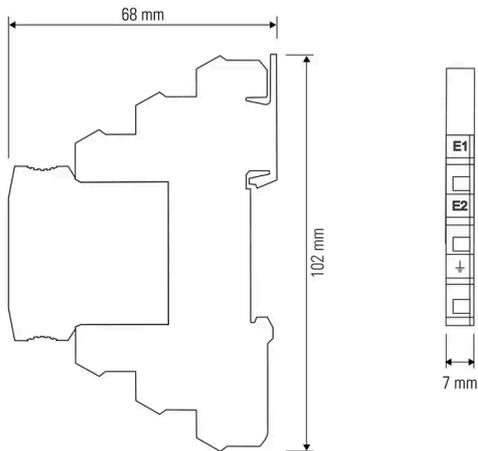


Image for illustrative purposes only

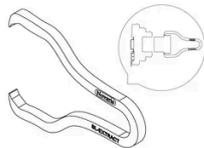
Wiring



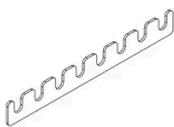
Dimensions



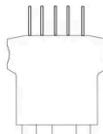
Accessories



SL-EXTRACT



SL-COMB



SL-TEST



SL-DRIVER

For additional information please refer the SL Accessories Catalogue , No. 0004-D14V1

Specifications

Electrical Specifications

| | | |
|--|-----------|--------------------------|
| Connection type | | Series |
| Number of lines | | 1 pair |
| Modes of protection | | Transverse and Common |
| Maximum continuous voltage (DC) | U_c | 65V |
| Maximum continuous voltage (AC) | U_c | 50V |
| Maximum discharge current (8/20 μ s) | I_{max} | 5kA |
| Maximum common mode discharge current (8/20 μ s) | | 10kA |
| Impulse durability C2 10x8/20 μ s | | 5kA |
| Maximum load current | I_L | 6A |
| AC durability 5x1s | | 1A rms |
| Overstressed fault mode | | Mode 3 |
| Response time | t_A | <25ns |
| Line resistance | | 0.02 Ω |
| Insertion loss @ 150 Ω | | <0.5dB @ <20kHz |
| 3 dB Frequency @ 150 Ω | | 80kHz |
| Earthing | | Direct |

Electrical (L-L) Specifications

| | | |
|--|-------|------|
| Voltage protection level @ 1 kV/ μ s | U_p | 135V |
| Capacitance | - + | 12nF |

Electrical (L-PE) Specifications

| | | |
|--|-------|-------|
| Voltage protection level @ 1 kV/ μ s | U_p | 380V |
| Capacitance | - + | 1.5pF |

Safety Specifications

| | | |
|--------------------|--|--------|
| Max. input voltage | | 30V |
| Max. input current | | 1.639A |
| Max. input power | | 2.2W |
| Capacitance | | 0 |
| Inductance | | 0 |

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 |
| Length | | 102mm |
| Width | | 7mm |
| Height | | 68mm |
| Dimensional tolerance | | 0.5mm |

Standard Specifications

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

Accreditations Specifications

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

Shipping Specifications

| | | |
|----------------|--|--------------------|
| Weight | | 35g |
| Customs tariff | | 85363000, 85363010 |

Other Specifications

| | | |
|--------------|--|---------------|
| Product Code | | IS-SSP6A-65-G |
|--------------|--|---------------|