## IS-SSP6A-14-EC90



#### **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.

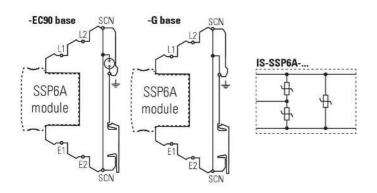
#### Two different earthing options

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).

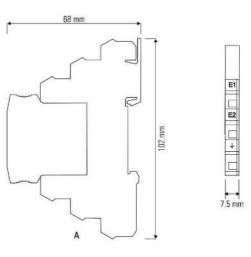
#### Slimline pluggable modules

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

# 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 singalling 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

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# **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

### **Electrical Specifications**

Connection type	¥	Series
Number of lines	≔	1 pair
Modes of protection	þ	Transverse and Common
Maximum continuous voltage (DC)	U <sub>c</sub>	14V
Maximum continuous voltage (AC)	U <sub>c</sub>	11V
Maximum discharge current (8/20 µs)	l <sub>max</sub>	4.8kA
Maximum common mode discharge current (8/20 µs	3)	9.6kA
Impulse durability C2 10x8/20µs		2.5kA
Maximum load current	I <sub>L</sub>	6A
AC durability 5x1s		1Arms
Overstressed fault mode		Mode 3
Response time	t <sub>A</sub>	<5ns
Line resistance	<b>-</b> W-	0.02Ω
Insertion loss @ 150 Ω	أان.	<0.5dB @ <20kHz
3 dB Frequency @ 150 Ω		80kHz

# Electrical (L-L) Specifications

Voltage protection level @ 1 kV/ µs	U <sub>p</sub>	35V
Voltage protection level @ 3 kA 8/20 µs	U <sub>p</sub>	70V
Voltage protection level @ 100 V/ s		20V
Capacitance	H۲	48nF

### Electrical (L-PE) Specifications

Voltage protection level @ 1 kV/ μs	$\mathbf{U}_{_{\mathbf{p}}}$	35V
Voltage protection level @ 3 kA 8/20 µs	U <sub>p</sub>	70V
Voltage protection level @ 100 V/ s		20V
Capacitance	H۲	48nF

# **Mechanical Specifications**

Minimum operating temperature	P	-20°C
Maximum operating temperature	I	40°C
Minimum operating humidity	<b>%</b>	5%
Maximum operating humidity	•	95%
Mounting method	æ	TS35 DIN Rail
Environmental rating	ŵ	IP20
Enclosure material	•	Polycarbonate UL 94 V-0
Enclosure finish	•	Blue
Terminal type		Cage clamp
Terminal capacity	0	2.5mm²
Terminal screw torque	C	0.5Nm
Earthing		90V isolation
Length	~	102mm
Width	<b>↔</b>	7mm
Height	1	68mm

### Other Specifications

Product Code IIII IS-SSP6A-14-EC90

# Safety Specifications

Max. input voltage	30V
Max. input power	2.2W
Capacitance	0
Indicates a	
Inductance	0

## **Shipping Specifications**

Weight	Â	35g
Customs tariff	*	85363000

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