

IS-SSP6A-14-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).

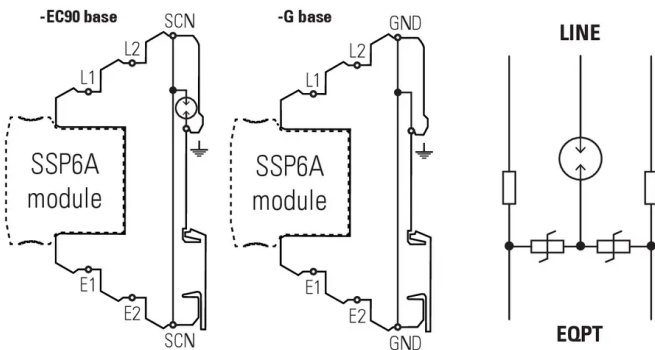
Slimline pluggable modules

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.

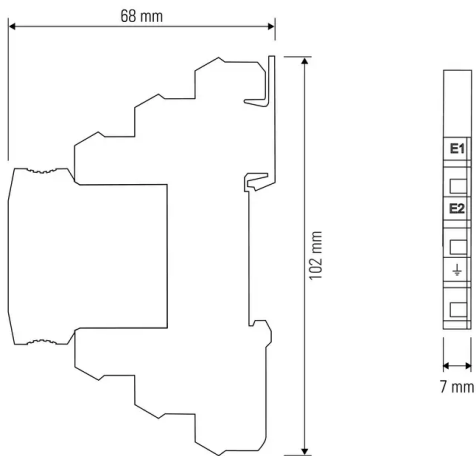


Image for illustrative purposes only

Wiring



Dimensions



Product Datasheet

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}	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	45V
Capacitance	$-I-$	12nF

Electrical (L-PE) Specifications

Voltage protection level @ 1 kV/ μ s	U_p	380V
Capacitance	$-I-$	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-14-G
--------------	---	---------------