# SL-PSTN-EC90

Slimline Signal Line Protectors

Novaris SL range provides surge protection for most twisted pair signalling schemes. Ideal for the protection of PLCs, fire and security systems, telecommunications and telemetry systems, railway signalling, SCADA and other industrial monitoring and control equipment.

#### Multistage Failsafe Design

A high energy gas discharge tube (GDT) as primary protection plus series impedance and secondary components provide very robust surge protection with high transient suppression offering low let-through voltages.

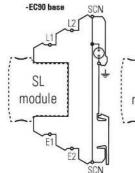
#### **Two Different Earthing Options**

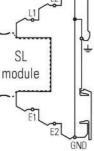
With two different base options the SL protectors offer either direct earthing via DIN rail, for the most effective, low impedance earth connection (-G base) or a connection via GDT to the DIN rail, offering isolation under normal conditions and equipotential bonding during a surge (-EC90 base).

#### 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.

## **Dimensions**





IEC 61643-21

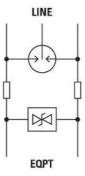
AS/NZS 1768

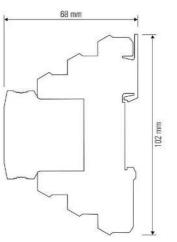
**ITU-T K.44** 

AS/CA S008

AS/NZS 4117

Wiring







## **Standards**

SPD connected to telecommunications and signalling networks - Cat C2, D1 Signalling/Telecommunications surge protection UL 1499 & UL 497B Protectors for data communications and fire-alarm circuits Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents **Requirements for Customer Cabling Products** Surge Protective Devices for Telecommunications Applications

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## **Specifications**

## **Electrical Specifications**

Connection type	۲	Series
Number of lines	≔	1 pair
Modes of protection	ų	Transverse and Common
Maximum continuous voltage (DC)	U <sub>c</sub>	200V
Maximum continuous voltage (AC)	U <sub>c</sub>	140V
Maximum discharge current (8/20 µs)	l <sub>max</sub>	5kA
Maximum common mode discharge current (8/20 µs)		10kA
Maximum discharge current (10/350 µs)		1.25kA
Maximum common mode discharge current (10/350 µs)	I <sub>imp</sub>	2.5kA
Impulse durability C2 10x8/20µs		5kA
Impulse durability D1 2x10/350µs		2.5kA
Maximum load current	I,	250mA
AC durability 5x1s		1Arms
Overstressed fault mode		Mode 3
Response time	t <sub>A</sub>	<5ns
Line resistance		8.2Ω
Insertion loss @ 150 Ω	I	<0.5dB @ <1MHz
3 dB Frequency @ 150 Ω		60MHz

Mechanical Specifications		
Minimum operating temperature	ß	-40°C
Maximum operating temperature	l	70°C
Minimum operating humidity	٢	5%
Maximum operating humidity	٨	95%
Mounting method	۶¢	TS35 DIN Rail
Environmental rating		IP20
Enclosure material	Ø	Polycarbonate
Enclosure finish		Black
Terminal type		Screw cage
Terminal capacity	Ο	2.5mm <sup>2</sup>
Terminal screw torque	C	0.5Nm
Earthing		90V isolation
Length	2	102mm
Width	↔	7mm
Height	1	68mm

Mechanical Specifications

### **Other Specifications**

Product Code		SL-PSTN-EC90
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## Electrical (L-L) Specifications

Electrical (L-PE) Specifications Voltage protection level @1 kV/ µs

Voltage protection level @ 3 kA 8/20 µs

Voltage protection level @ 100 V/ s

Capacitance

Voltage protection level @ 1 kV/ µs	U <sub>p</sub>	220V
Voltage protection level @ 3 kA 8/20 µs	U <sub>p</sub>	220V
Voltage protection level @ 100 V/ s		210V
Capacitance	⊣⊢	<20pF

Up

U

⊣⊢

350V

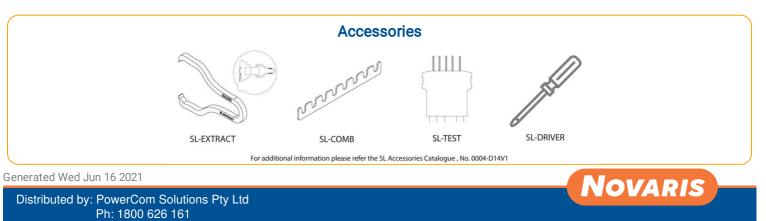
600V

230V

<10pF

## **Shipping Specifications**

Weight	Â	35g
Customs tariff	*	85363000



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