SL2-7v5-EC90



High Energy Signal Line Protection

The Novaris SL2...-EC90 range provides 20kA high energy surge protection for balanced pair signaling circuits with line currents up to 500mA.

Multistage protection

Following the primary GDT is a series coordinating impedance followed by a high-speed clamping diode circuit providing a safe voltage protection level for the connected equipment.

Pluggable design

The protection circuitry is contained within a removable top module. This pluggable design allows for easy removal and replacement. Reliable gold-plated connectors are used between top and base modules.

Earthing

The SL2...-EC90 range utilizes a base which can be locked to the DIN rail by a screw that also provides an earth termination. The -EC90 gas discharge tube located in the top module allows screened cable to be protected without the screen being directly earthed, thereby avoiding noise caused by "earth loops".

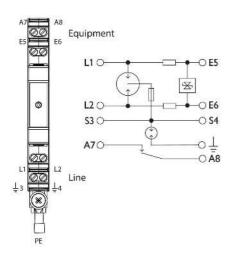
Failsafe design

In the event of excessive surge current, a fuse will rupture, preventing a short circuit to earth.

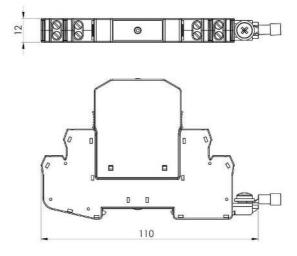
Indication and alarm

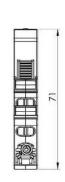
In the event of a failure a red indicating flag on the module will be activated. A normally closed alarm contact will open providing a means for remote condition monitoring.

Wiring



Dimensions





Standards

IEC 61643-21 AS/NZS 1768 UL497, A, B AS/NZS4117 AS7708

SPD connected to telecommunications and signaling networks – Cat C2, D1

Lightning Protection

Protectors for telecommunications, data and fire alarm circuits Surge protective devices for telecommunications applications

Signals earthing and surge protection

Novaris

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Product Datasheet

Electrical Specifications

Connection type	¥	Series
Number of lines	≔	1 pair
Modes of protection	þ	Transverse & Common
Maximum continuous voltage (DC)	U _c	7V
Maximum continuous voltage (AC)	U _c	5V
Maximum discharge current (8/20 μs)	l _{max}	10kA
Maximum common mode discharge current (8/20 μs)		20kA
Maximum discharge current (10/350 μs)		2.5kA
Maximum common mode discharge current (10/350 μs)	l _{imp}	5kA
Impulse durability C2 10x8/20µs		10kA
Impulse durability D1 2x10/350µs		5kA
Maximum load current	Ι _L	500mA
AC durability 5x1s		1Arms
Overstressed fault mode		Mode 3
Response time	t _A	<5ns
Line resistance	-	3.9Ω
Insertion loss @ 150 Ω	d	<0.5dB @ <70kHz
3 dB Frequency @ 150 Ω		60MHz

Mechanical Specifications

Minimum operating temperature	P	-40°C
Maximum operating temperature	I	70°C
Minimum operating humidity	&	5%
Maximum operating humidity	&	95%
Mounting method	Æ	TS35 DIN Rail
Environmental rating	ŵ	IP20
Enclosure material	•	Polycarbonate
Terminal type		Screw cage
Terminal capacity	0	2.5mm²
Terminal screw torque	G	0.5Nm
Terminal labels		Klemsan 505850 DB 5
Earthing		90V isolation
Length	2	110mm
Width	\leftrightarrow	12mm
Height	1	71mm
Dimensional tolerance		0.5mm

Electrical (L-L) Specifications

Voltage protection level @ 1 kV/ μs	U _p	15V
Voltage protection level @ 3 kA 8/20 µs	U _p	15V
Voltage protection level @ 100 V/ s		9V
Capacitance	⊣⊦	32pF

Electrical (L-PE) Specifications

Voltage protection level @ 1 kV/ µs	U _p	350V
Voltage protection level @ 3 kA 8/20 µs	U _p	600V
Voltage protection level @ 100 V/ s		230V
Capacitance	⊣⊢	2pF

Other Specifications

Product Code		SL2-7v5-EC90
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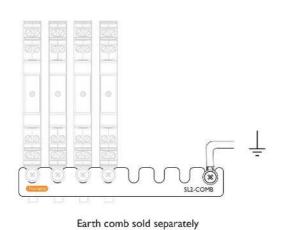
Indication Specifications

Alarm	\triangle	Impulse overload current and thermal
Alarm isolation	23	100V

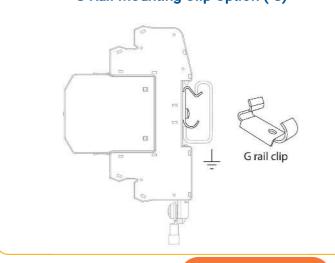
Shipping Specifications

Weight	Â	70g
Customs tariff	*	85363000, 85363010

Earth Comb Option



G Rail Mounting Clip Option (-G)



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