Product Datasheet

SLC-36

Combined signal line and power protector

The Novaris SLC range provides surge protection for a single 36V, 20kA high energy balanced pair signal and a single 10A, 24V DC power supply. This combined protector is compact at 12mm wide, allowing for easy installation. Applications include SCADA, PLC, fire and security systems, telecommunications and railway signaling.

Indicating fuse

In the event of a surge beyond the rating of the SLC, a fuse will rupture. The red pin on top of the unit indicates this and in turn a short circuit to earth is prevented ensuring fail safe operation.

Multistage protection

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

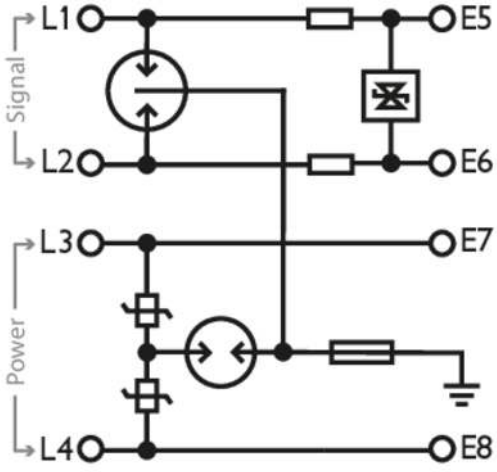
Contact Reliability

Gold plated fingers used on the connector between top and bottom module.

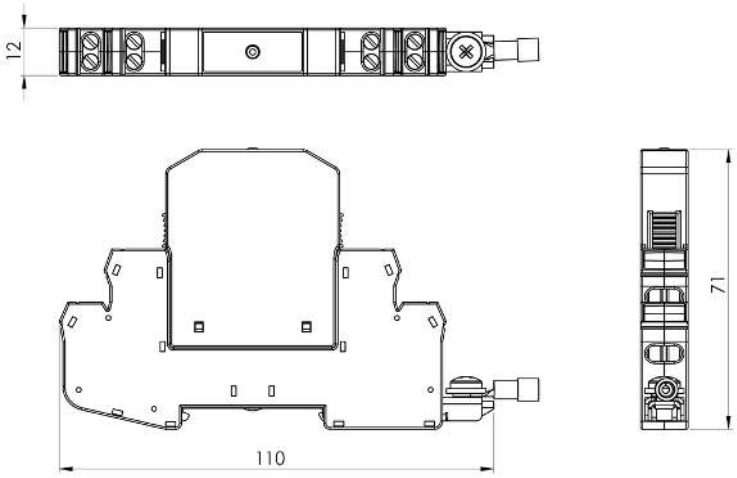
Pluggable design

The pluggable design allows for easy removal and replacement.

Wiring



Dimensions



Standards

IEC 61643-21	SPD connected to telecommunications and signaling networks – Cat C2, D1
AS/NZS 1768	Lightning Protection
AS/NZS4117	Surge protective devices for telecommunications applications
AS7708	Signals earthing and surge protection

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Product Datasheet

Electrical Specifications (Signal)

Connection type		Series
Number of lines		1 pair
Modes of protection		Transverse & Common
Maximum continuous voltage (DC)	U_c	36V
Maximum continuous voltage (AC)	U_c	24V
Maximum discharge current (8/20 µs)	I_{max}	10kA
Maximum common mode discharge current (8/20 µs)	I_{TOT}	20kA
Maximum discharge current (10/350 µs)		2.5kA
Maximum common mode discharge current (10/350 µs)	I_{imp}	5kA
Impulse durability C2 10x8/20µs		10kA
Impulse durability D1 2x10/350µs		5kA
Maximum load current	I_L	500mA
AC durability 5x1s		1Arms
Overstressed fault mode		Mode 3
Response time	t_A	<5ns
Line resistance		3.9Ω
3 dB Frequency @ 150 Ω		60MHz
Voltage Protection Level (L-L) @ 100V/s		38V
Voltage Protection Level (L-L) @ 1kV/µs	U_p	40V
Voltage Protection Level (L-L) @ 3kA 8/20µs	U_p	40V
Capacitance (L-L)		32pF
Voltage Protection Level (L-PE) @ 100V/s		150V
Voltage Protection Level (L-PE) @ 1kV/µs	U_p	200V
Voltage Protection Level (L-PE) @ 3kA 8/20µs	U_p	300V
Capacitance (L-PE)		2pF

Mechanical Specifications

Minimum operating temperature		-40°C
Maximum operating temperature		70°C
Minimum operating humidity		5%
Maximum operating humidity		95%
Mounting method		TS35 DIN Rail
Environmental rating		IP20
Enclosure material		Polycarbonate
Terminal type		Screw cage
Terminal capacity		2.5mm²
Terminal screw torque		0.5Nm
Earthing		90V isolation
Length		110mm
Width		12mm
Height		71mm

Other Specifications

Product Code		SLC-36

Electrical Specifications (Power)

Connection type		Series
Number of lines		1 pair
Modes of protection		Transverse & Common
Maximum continuous voltage (DC)	U_c	36V
Maximum continuous voltage (AC)	U_c	25V
Maximum discharge current (8/20 µs)	I_{max}	7.5kA
Maximum common mode discharge current (8/20 µs)	I_{TOT}	20kA
Maximum load current	I_L	10A
Voltage Protection Level (L-L) @ 100V/s		52V
Voltage Protection Level (L-L) @ 1kV/µs	U_p	60V
Voltage Protection Level (L-L) @ 3kA 8/20µs	U_p	95V
Capacitance (L-L)		21nF
Voltage Protection Level (L-PE) @ 100V/s		150V
Voltage Protection Level (L-PE) @ 1kV/µs	U_p	200V
Voltage Protection Level (L-PE) @ 3kA 8/20µs	U_p	300V
Capacitance (L-PE)		2pF

Shipping Specifications

Weight		55g
Customs tariff		85363000

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