

# STABIL Data Line Surge Protector



## 1. GENERAL APPLICATIONS

STABIL Resettable Surge Protector Module with **SSAP**™ Technology is the world latest innovative designed technology for the RS485 Surge Protection, the STABIL Resettable Surge Protector Module with **SSAP**™ Technology has the fastest and finest surge protection performance than ever before which has the extremely fast response time by less than milliseconds, the circuit is also designed with very low loss, over voltage / over current protections concept with the new technology of resettable function therefore you can highly confident to get on the best surge protection performance products.

## 2. FEATURES

- 2.1 Resettable Surge Protector with **SSAP**™ Technology
- 2.2 The protector consists of the following components :
  - Three Electrode Arrester with fail safe ( **ARR** )
  - Super Active Protection ( **SAP** )
  - Hybrid Clamping Circuit ( **HCC** )
- 2.3 Designed for RS485 interface with DB9 connector
- 2.4 TxD+, TxD-, RxD+ and RxD- Protection

## 3. ELECTRICAL DATA

The completed protector meets the electrical specifications as follows :

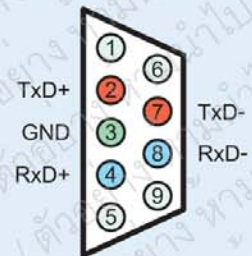
## SDL-485-DB9

Data Line Surge Protector for RS485 interface



Model : SDL-485-DB9

DB9 Connector for RS485 interface



RS485-DB9 / PIN ASSIGNMENT



Description	Specification
3.1 Max. line voltage	24 Vdc
3.2 Output voltage	< 90 V at 1kV / $\mu$ Sec
3.3 Response time	< 1 nSec
3.4 Capacitance	< 50 pF at 1 kHz
3.5 Operating temperature	- 10 °C to 70 °C
3.6 DC resistance	< 6 $\Omega$ at 25 °C
3.7 Nominal current	< 80 mA at 25 °C
3.8 Trip time	< 20 mSec at 600 mA
3.9 Surge current	2.5 kA at 8/20 $\mu$ Sec
3.10 AC discharge current	2.5 A at 50 Hz , 1 Sec
3.11 Protected pins	2-7, 4-8
3.12 Housing material	UL94V - 0
3.13 Connection type	DB9
3.14 Standard according	ANSI/IEEE C62.41.1-2002 and EIA/TIA-485

TSDL-S23-290463



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