

## 842.B

Transient Surge Protection Device (SPD) for electro-electronic equipments connected to data communication lines.

- Plastic box
- According to IEC 61643-3 / Telebras 235-430-727 Practice / ITU -T K.21 / UL 497
- Installation in moderate exposition areas IEC (DIN)

### Application

It is used for the protection of Programmable Logic Controllers, modems (LPCD or xDSL), safety systems, among others.



842.B SPD was developed for the protection of electro-electronic equipments against induced electrical transient surges.

It may be connected to data communication private lines, RS-422 and RS-485 interfaces. Suitable for the protection of equipments installed in moderate exposition areas to electrical surges due to atmospheric discharges (lightning) or other types of electrical transient disturbances. Its physical

configuration is made of a two stage cascade, using Gas Discharge Tube - GDT and Silicon Avalanche Diode – SAD technologies, coordinated through a series impedance, giving an effective and extremely fast protection.

Electrical connection is made by a screw connector and it is enclosed in an ABS injected plastic box, fireless propagating. Easily fixed in flat surfaces by means of screw or mounted on 35 mm DIN rail (DIN EN 50022 Standard).

### Performance Characteristics:

S 800	Maximum Service Voltage	Maximum Service Voltage at	Máxima corrente de surto a 8/20 $\mu$ s	Tensão de Clamping @ I <sub>pp</sub>	Máxima corrente de surto a 10/1000 $\mu$ s	weight
Model	U	IIMP	IMAX	UC	UPP	g
842.B.015	15	10 kA	20 kA	< 21.2 V	71 A	50 g
842.B.020	20	10 kA	20 kA	< 33.2 V	45 A	50 g
842.B.075	50	10 kA	20 kA	< 64.8 V	23.2 A	50 g
842.B.130	130	10 kA	20 kA	< 57.4 V	2.3 A	50 g

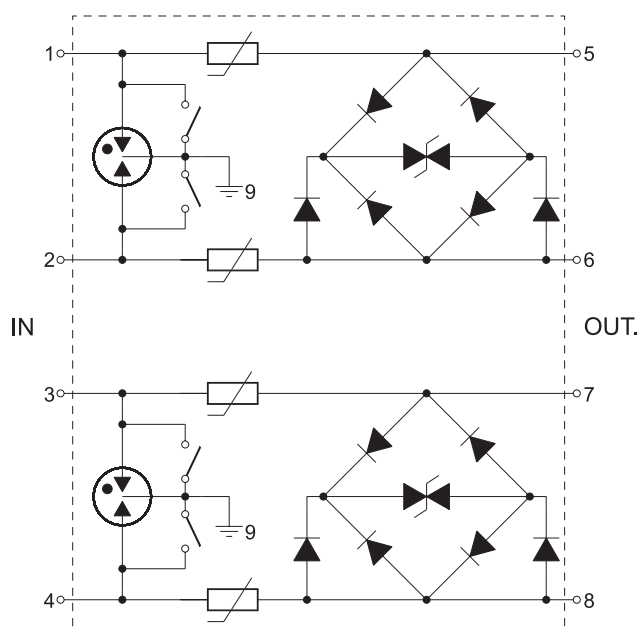
## Functional Characteristics:

Characteristics	Unity	842.B
Standard	-	61643-2/ Telebras 235-430-727 Practice / ITU -T K.21/ UL 497
Protection technology	-	Gas Discharge Tube – GDT and Silicon Avalanche Diode - SAD
Exposition level	-	Moderate
Response time – GDT	ns	100
Response time - SAD	ps	1
Connection	-	Cable
Service protection signaling	-	End of lifetime, line in short-circuit
Number of protected conductors	unity	4
Operation temperature	° C	-30...+85
Series resistance	Ω	10
Impedance	Ω	Not Applied
Capacitance	pF	Not Applied
Insertion loss	dB	-
Input connection	-	5-position screw connector for 2.5 mm <sup>2</sup> section cables
Output connection	-	4-position screw connector for 2.5 mm <sup>2</sup> section cables
Packing	-	ABS injected plastic box, fireless propagating
Protection degree	IP	20
Dimension	mm	84.0 x 60.0 x 22.5

## Electrical Circuit:

842.B.020

842.B.130



843.B.020

843.B.130

