

AT92 Series

MODULAR PROTECTOR FOR DATA LINES FOR DIN RAIL

ATLINE



AT-3501: RF SPD TESTER:
Radiofrequency SPD tester.

- AT-9205 ATLINE 5: 5V_{DC} lines
- AT-9212 ATLINE 12: 12V_{DC} lines
- AT-9215 ATLINE 15: 15V_{DC} lines
- AT-9224 ATLINE 24: 24V_{DC} lines
- AT-9230 ATLINE 30: 30V_{DC} lines
- AT-9248 ATLINE 48: 48V_{DC} lines
- AT-9260 ATLINE 60: 60V_{DC} lines
- AT-9280 ATLINE 80: 80V_{DC} lines
- AT-9210 ATLINE 110: 110V_{DC} lines

Efficient protection for **data lines**, containing **coordinated protection** for two pair of lines.

- Protection for data lines and the digital or analogical equipments connected (computers, PLCs, discharge cells, etc.).
- Wide variety of SPDs for different working voltages.
- Both common and differential protection recommended for this type of lines.
- Allows the connection of two pairs of lines with a very small size (0,75 DIN modules).
- Pluggable modules for its easier substitution in case of failure without the need of disconnecting the wiring. When substituting the module the line suffers no interruptions.
- It has a radiofrequency receptor in order to do the maintenance only with issuer equipment. When the RF SPD Tester is applied and the protector is working, the LED flickers green. If the cartridge is damage the LED does not flick.
- Earthing implemented through a metallic sheet opposite to the fixing DIN rail.
- In normal conditions stays inactive, without affecting the line working and without producing any leakage.
- Low residual voltage in all the working voltages.
- Very fast response.
- Connection with screw pressure, which provides better lightning current withstanding capacity than usual telephone connectors.

ATLINE SPDs have been tested in **official, independent laboratories**, obtaining their characteristics according to relevant standards (related in the table).

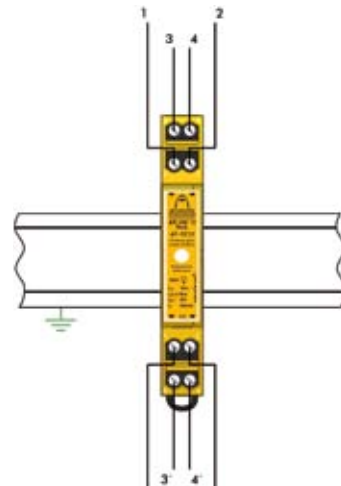
Installation

ATLINE SPDs should be installed preferably **as close to the equipment as possible**. One communication cable or data line may contain several wires. Each ATLINE can protect four of these wires. It is very important to know precisely the **working voltage, current and function of each wire**, in order to select the proper SPD. It is very important to know the working voltage, the intensity and the function of every wire of the line to select the correct protector.

In case where two equipments located **in separated buildings but linked together** are to be protected, protection must be installed in both sides of the line.

The recommended **installation procedure** is the following:

1. Cut the data cable.
2. Insert the cable ends in the connectors. Verify carefully that input and output connections are correctly placed.
3. Connect the DIN rail to the earth termination system where current will be diverted.



⚠ Earth connection is a must. Earthing in all the installation must be bonded either directly or by a spark gap and resistance should be lower than 10Ω. If the indications of this datasheet are not fulfilled during the use or installation of the SPDs, the protection assured by this device could be endangered.

AT92 Series

Technical Datasheet

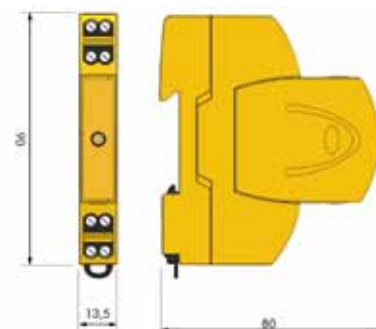
Reference		ATLINE5 AT-9205	ATLINE12 AT-9212	ATLINE15 AT-9215	ATLINE24 AT-9224	ATLINE30 AT-9230
Nominal voltage:	U_n	5V _{DC}	12V _{DC}	15V _{DC}	24V _{DC}	30V _{DC}
Maximum working voltage:	U_c	7V _{AC, DC}	15V _{AC, DC}	18V _{AC, DC}	31V _{AC, DC}	37V _{AC, DC}
Nominal discharge current for line C2 10kV(1,2/50μs) / 5kA(8/20μs):	$I_n(C2)$	5kA				
Total nominal discharge current C2 10kV(1,2/50μs) / 5kA(8/20μs):		20kA				
Protection level (1,2/50μs):	U_p	9V	18V	20V	35V	40V
Protection level at I_n (8/20μs wave):	$U_p(I_n)$	13V	25V	25V	40V	45V
Nominal current:	I_N	360mA				
Series resistance:	R_s	15Ω				
Response time:	t_r	< 10ns				
SPD location:		Indoor				
Type of connection:		Serie (two ports)				
Number of poles:		4				
Working temperature:	ϑ	-40°C to +70°C				
Dimensions:		13,5 x 90 x 80mm (0,75 mod. DIN43880)				
Fixing:		DIN rail				
Enclosure material:		Polyamide				
Enclosure protection:		IP20				
Insulation resistance:		> 10 ¹⁴ Ω				
Autoextinguish enclosure:		V-0 Type according to UNE-EN 60707 (UL94)				
Connections:		Maximum Section 4mm ²				
Certificated tests according to: IEC 61643-21, EN 61643-21						
Complies with requirements of: UL 1449						
Relevant standards: UNE 21186, NFC 17102, IEC 62305						

Accessories



- AT-9206 ATLINE 5 Mod.: 5V_{DC} lines
- AT-9213 ATLINE 12 Mod.: 12V_{DC} lines
- AT-9216 ATLINE 15 Mod.: 15V_{DC} lines
- AT-9225 ATLINE 24 Mod.: 24V_{DC} lines
- AT-9231 ATLINE 30 Mod.: 30V_{DC} lines

Dimensions



AT92 Series

Technical Datasheet

Reference		ATLINE48 AT-9248	ATLINE60 AT-9260	ATLINE80 AT-9280	ATLINE110 AT-9210
Nominal voltage:	U_n	48V _{DC}	60V _{DC}	80V _{DC}	110V _{DC}
Maximum working voltage:	U_c	65V _{AC, DC}	72V _{AC, DC}	96V _{AC, DC}	132V _{AC, DC}
Nominal discharge current for line C2 10kV(1,2/50μs) / 5kA(8/20μs):	$I_n(C2)$	5kA			
Total nominal discharge current C2 10kV(1,2/50μs) / 5kA(8/20μs):		20kA			
Protection level (1,2/50μs):	U_p	70V	90V	120V	160V
Protection level at I_n (8/20μs wave):	$U_p(I_n)$	75V	100V	135V	180V
Nominal current:	I_N	360mA			
Series resistance:	R_s	15Ω			
Response time:	t_r	< 10ns			
SPD location:		Indoor			
Type of connection:		Serie (two ports)			
Number of poles:		4			
Working temperature:	ϑ	-40°C to +70°C			
Dimensions:		13,5 x 90 x 80mm (0,75 mod. DIN43880)			
Fixing:		DIN rail			
Enclosure material		Polyamide			
Enclosure protection:		IP20			
Insulation resistance:		> 10 ¹⁴ Ω			
Autoextinguish enclosure:		V-0 Type according to UNE-EN 60707 (UL94)			
Connections:		Maximum Section 4mm ²			
Certificated tests according to: IEC 61643-21, EN 61643-21					
Complies with requirements of: UL 1449					
Relevant standards: UNE 21186, NFC 17102, IEC 62305					

Accessories



- AT-9249 ATLINE 48 Mod.: 48V_{DC} lines
- AT-9261 ATLINE 60 Mod.: 60V_{DC} lines
- AT-9281 ATLINE 80 Mod.: 80V_{DC} lines
- AT-9211 ATLINE 110 Mod.: 110V_{DC} lines

Dimensions

