Serie ATSUB

Single-pole protector for power supply lines

> ATSUB 100

> **AT-8256 ATSUB 100**: Line protection. Max current of 100kA at Un=230V_{AC}
> **AT-8257 ATSUB 100-120**: Line protection. Max current of 100kA at Un=120V_{AC}
> **AT-8259 ATSUB 100-N**: Neutral protection. Max current of 100kA

ATSUB 100 – 120

Max. discharge current in kA

Voltage line-ground

Efficient protection against transient overvoltages, using Metal Oxide Varistors, for Power Supply lines with or without neutral. **Medium** protection according to scaled protection recommended in Low Voltage Regulation (REBT ITC23).

Tested and Certified as **Type 1 and 2** protectors according to EN 61643-11 and GUIA-BT-23 from REBT. Suitable for equipment of **categories I, II, III and IV** according to ITC-BT-23 form REBT.

- Containing Zinc Oxide Varistors, able to withstand very high currents.
- Short response time.
- Don't produce deflagration.
- Single-pole protection.
- Do not cause at any moment any interruption in the supply lines.
- Thermodynamic control device and light alarm.

AT82 Series SPDs have been tested in official, independent laboratories, obtaining their characteristics according to relevant standards (related in the table).
There exists the possibility of selecting a protector for the working voltage in each particular case. In the technical datasheet the 230V and 130V versions of nominal voltage are included as common examples.

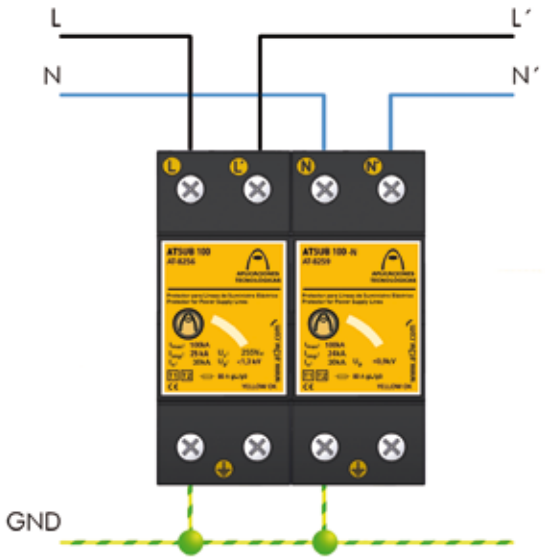
Earth connection is a must. Earthing in all the installation must be bonded either directly or by a spark gap and resistance should be lower than 10Ω. If the indications of this datasheet are not fulfilled during the use or installation of the SPDs, the protection assured by this device could be endangered.

> Installation

ATSUB Surge Protective Devices are to be installed in parallel with the Low Voltage supply line, connected to the line (or neutral) to be protected and ground.

The **power should be disconnected** during the installation of the SPD.

Their installation is recommended in places where important overvoltages can occur after the main switchboard and when these lines are not connected to very sensitive equipment.



ATSUB Series

Technical Datasheet

Reference		ATSUB 100 AT-8256	ATSUB 100-120 AT-8257	ATSUB 100-N AT-8259
Protection categories according to REBT:		I, II, III, IV		
Type of tests according to EN 61643-11:		Type 1 + 2		
Nominal Voltage:	Un	$230V_{AC}$	$120V_{AC}$	-
Maximum continuous operating voltage:	U_c	$275V_{AC}$	$150V_{AC}$	-
Nominal frequency:		50 - 60Hz		
Impulse current (10/350µs wave):	I_{imp}	25kA		
Nominal discharge current (8/20µs wave):	I_n	30kA		
Maximum current (8/20µs wave):	I_{max}	100kA		
Protection level for 1,2/50µs wave:	U_p	1,3kV	0,9kV	1,3kV
Response time:	t_r	< 25ns		
Backup fuse(1):		125A gL/gG		
Maximum short-circuit current:		25kA (for maximum fuse)		
Working temperature:	ϑ	-40ºC a +70ºC		
SPD location:		Indoor		
Type of connection:		Parallel (one port)		
Dimensions:		36 x 90 x 80mm (2 mod. DIN43880)		
Fixing:		DIN Rail		
Enclosure material:		Polyamide		
Enclosure protection:		IP20		
Insulation resistance:		> $10^{14}\Omega$		
Autoextinguish enclosure:		V-0 Type according to UNE-EN 60707 (UL94)		
Connections L/N/GND:		Min/ Max section multi-stranded: 4 / 35mm² Min / Max section single-stranded: 1 / 35mm²		

Certificated tests according to: IEC 61643-1, EN 61643-11
Complies with requirements of: UL 1449
Relevant standards: UNE 21186, NFC 17102, IEC 62305

(1) Needed in cases where there is higher nominal current installed “upstream” from the protector.

Dimensions