



> PROTECTION OF POWER SUPPLY LINES

> ATSUB SERIES

> ATSUB100

Single-pole and pluggable protection for power supply lines



- > AT-8256 ATSUB 100: line protection.

 Maximum current 100 kA a U₂=230 V_{AC}
- > AT-8257 ATSUB 100-120: line protection Maximum current 100 kA a U_n=120 V_{AC}
- AT-8258 ATSUB 100-400: line protection. Maximum current 100 kA a U_n=400 V_{AC}
- > AT-8259 ATSUB 100-N: neutral protection. Maximum current 100 kA

> NOMENCLATURE

ATSUB 100 - 120

Max. discharge Line - ground voltage in kA nominal voltage

Effective protection against transient overvoltages, using metal oxide varistors, for power supply lines with or without a neutral. Medium protection according to the cascade protection recommended in the Spanish Low Voltage Regulations (REBT ITC23).

Tested and certified as a **type 1 and 2** protector according to the standard EN 61643-11 and GUÍA-BT-23 from the REBT. Suitable for **categories I, II, III and IV equipment** according to the REBT.

- Containing zinc oxide varistors, able to withstand very high currents.
- Double connection in order to facilitate wiring (limited to 63 A).
- > Short response time.
- > Do not produce deflagration.
- > Single-pole protection.
- > Their activation causes no interruption in power supply.
- > Thermodynamic control device and visual alarm.

ATSUB series protectors have been tested in **official, independent laboratories,** obtaining their characteristics according to relevant standards (listed in the table).

It is possible to select a protector for the alternating voltage suitable for each particular case.

> INSTALLATION

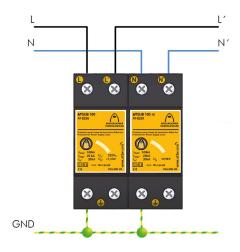
They are installed **in parallel** with the low voltage line, with connections to the phases that are to be protected (or neutral) and ground.

Installation should be carried out without power running through the line.

They are recommended for installations where large overvoltages can occur after the main switchboard and when these lines are not connected to very sensitive equipment.



Connection to earth is a must. Earthing in the whole installation must be bonded either directly or by a spark gap and resistance should be lower than 10 $\Omega.$ If the indications on this datasheet are not fulfilled during use or installation of the protectors, the protection provided by this device could be compromised.







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> TECHNICAL DATASHEET

Reference:		ATSUB 100 AT-8256	ATSUB 100-120 AT-8257	ATSUB 100-400 AT-8258	ATSUB 100-N AT-8259
Protection categories according to the REBT:		I, II, III, IV			
Type of tests according to EN 61643-11:		Type 1 + 2			
Nominal voltage:	Un	230 V _{AC}	120 V _{AC}	400 V _{AC}	-
Maximum continuous operating voltage:	U _c	275 V _{AC}	150 V _{AC}	460 V _{AC}	-
Nominal frequency:		50 - 60 Hz			
Impulse current (10/350 µs wave):	I _{imp}	25 kA			
Nominal discharge current (8/20 µs wave):	I _n	30 kA			
Maximum discharge current per pole (8/20 µs wave):	l _{max}	100 kA			
Protection level 1.2/50 µs wave:	U _p	1.3 kV	0.9 kV	1.5 kV	1.3 kV
Response time:	t _r	< 25 ns			
Backup fuse ⁽¹⁾ :		125 A gL/gG			
Maximum short-circuit current:		25 kA (for maximum fuse)			
Working temperature:	θ	-40 °C to +70 °C			
Protector location:		Indoor			
Type of connection:		Parallel (one port)			
Dimensions:		36 x 90 x 80 mm (2 modules DIN 43880)			
Fixing:		DIN Rail			
Enclosure material:		Polyamide			
Enclosure protection:		IP20			
Insulation resistance:		$>10^{14}\Omega$			
Self-extinguishing enclosure:		V-0 Type according to UNE-EN 60707 (UL94)			
Connections L/N/G:		Min/Max multi-stranded section: 4 / 35 mm ² Min/Max single-stranded section: 1 / 35 mm ²			
Certificated tests according to: UNE-EN 61643-11 Complies with requirements of: UL 1449 Relevant standards: UNE 21186, NF C 17-102, IEC 62305					

(1) Required in cases where there is higher nominal current installed upstream from the protector

> DIMENSIONS (MM)



