> PROTECTION OF POWER SUPPLY LINES

> ATSHOCK SERIES

> ATSHOCK T 25

Compact protector for power supply lines.

> **AT-8089 ATSHOCK T 25**: protection formed by 3 ATSHOCK L25 + 1 ATSHOCK N. Uc = 460 V

The highest protection against transient overvoltages for power supply lines at the point they **enter the building**. ATSHOCK series provide protection even against **direct lightning strikes**. Tested and certified with lightning impulse current 10/350 µs wave, **25 kA**.

Type 1 and 2 protector according to UNE-EN 61643-11 and GUIDE-BT-23 of REBT. For equipment of **Categories I, II, III and IV** according to REBT.

- Gas discharge tube inside.
- Double connection in order to facilitate wiring (limited to 63 A).
- Possibility of connection to a M5 fork terminal.
- Suitable for TT systems.
- Coordinable with other SPDs such as ATSUB and ATCOVER.
- Quick response.
- Withstands direct lightning strike current (10/350µs wave) of 100kA.
- Limits supply following currents.
- Thermodynamic control device with luminous alarm.
- It has a test button to check the status of the protector. If the warning light illuminates in protective green in good condition. If not replace.
- This indicator does not generate any operating current resulting from state control and does not increase leakage to ground during normal operation

ATSHOCK series protectors have been tested in **official, independent laboratories** obtaining their characteristics according to applicable standards (shown in the table).

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 Ω.
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.

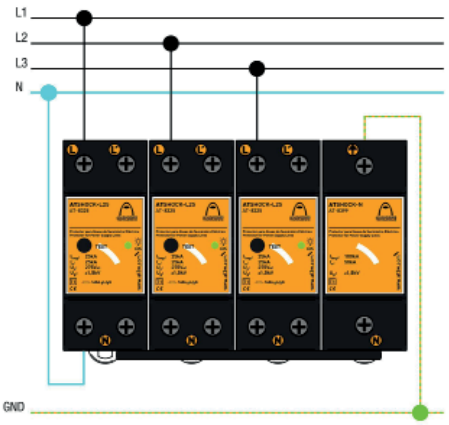
> INSTALLATION

ATSHOCK T25 surge protection devices are to be installed **in parallel** with the low voltage supply line, connected to a phase, neutral and ground.

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

It can be installed in combination with ATSUB or ATCOVER. In either case, both must be separated by at least 10 meter cable or, if this is not possible, by a decoupling inductor ATLINK, in order to achieve a correct coordination between them.

Classified by IBERDROLA as protection against transient overvoltages Type 1 in Electricity Meter Room.



> PROTECTION OF POWER SUPPLY LINES

> ATSHOCK SERIES

> TECHNICAL DATASHEET

Reference		ATSHOCK T 25 **AT-8089**
Protection categories according to the REBT:		I, II, III and IV
Type of tests according to EN 61643-11:		Type 1 + 2
Nominal voltage:	U_n	400 V_{AC} (L-L); 230 V_{AC} (L-N, L-GND)
Maximum continuous operating voltage:	U_c	460 V_{AC} (L-L); 275 V_{AC} (L-N, L-GND)
Nominal frequency:		50 - 60 Hz
Impulse current (10/350 µs wave):	I_{imp}	25 kA (L-N) / 100 kA (L-GND)
Specific energy:	W/R	2,5 MJ/Ω
Nominal discharge current (8/20 µs wave):	I_n	25 kA (L-N) / 50 kA (L-GND)
Protection level for I_n (8/20 µs):	U_p	1,5 kV (L-N)
Follow current extinguishing capability:	I_f	25 kA_{eff}
Response time:	t_r	< 100 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:		147 x 94 x 80 mm (8 mod. DIN 43880)
Fixing:		DIN Rail
Enclosure material:		Polyamide
Enclosure protection:		IP20
Self-extinguishing enclosure:		V-0 Type according to UNE-EN 60707 (UL94)
Connections L/N/G:		Min/Max section multi-stranded: 4 / 35 mm^2 Min/Max section single-stranded: 1 / 35 mm^2

Certificated tests according to: UNE-EN 61643-11
Complies with requirements of: 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)