> PROTECTION OF POWER SUPPLY LINES

> ATSHOCK SERIES

> ATSHOCK25

Single-pole and pluggable protection for power supply lines

> **AT-8325 ATSHOCK L25**: phase-ground protection. U_c = 275 V
> **AT-8326 ATSHOCK L25-130**: phase-ground protection. U_c = 150 V
> **AT-8327 ATSHOCK L25-400**: phase-ground protection. U_c = 460 V

High 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 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 from REBT.

- Gas discharge tube inside.
- Double connection in order to facilitate wiring (limited to 63 A).
- Possibility of connection to M5 fork terminal.
- Suitable for TT, TN-C and TN-S systems.
- Can be coordinated with other ATSUB and ATCOVER series protectors.
- Quick response.
- Single-pole protection. Withstands direct lightning strike current (10/350 wave) up to 25 kA.
- Limits following current supply.
- Thermodynamic control device and visual alarm.
- Test button for checking protector status. Green light indicates correct operation. If not, replace.
- This indicator does not generate any fault current during normal operation.
- Complies with IBERDROLA requirements for type 1 overvoltage protection on the Meter Board.

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 L25 surge protection devices are to be installed **in parallel** with the low voltage supply line, connected to phase and neutral. ATSHOCK N is recommended between neutral and earth.

Installation should be carried out **without power running through the line**. ATSHOCK can be installed in combination with ATSUB or ATCOVER protectors. In either case, both must be separated by at least 10 metres of cable or, if this is not possible, by a decoupling inductor ATLINK, in order to achieve **correct coordination** between them.

Installation is recommended in distribution boards where the line enters the building and where direct lightning currents could penetrate.

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> TECHNICAL DATASHEET

Reference		ATSHOCK L25 **AT-8325**	ATSHOCK L25-130 **AT-8326**	ATSHOCK L25-400 **AT-8327**
Protection categories according to the REBT:		I, II, III and IV		
Type of tests according to EN 61643-11:		Type 1 and 2		
Nominal voltage:	U_n	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		
Specific energy:	W/R	156 kJ/Ω		
Nominal discharge current (8/20 µs wave):	I_n	25 kA		
Protection level for I_n (8/20 µs):	U_p	1.5 kV		
Follow current extinguishing capability:	I_f	50 kA_{eff}		
Residual current:	I_{PE}	< 0,01 mA		
Response time:	t_r	< 100 ns		
Backup fuse(1):		160 A gL/gG		
Maximum short-circuit current:		50 kA (for maximum fuse)		
Working temperature:	ϑ	-40 ºC to +70 ºC		
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		
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)