



> ATSHOCK SERIES

> ATSHOCK-P 30

Single-pole and removable plug protection for power supply lines



Coarse protection according to the cascade protection recommended in the Spanish Low Voltage Regulations (REBT).

Type 1 protector according to the standard EN 61643-11 and GUÍA-BT-23 from the REBT. For equipment of **categories 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 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 30 kA (ATSHOCK-P N60 up to 60 kA).
- > High energy diverting capacity.
- > Limits following current supply.

ATSHOCK series protectors have been tested in **official, independent laboratories** obtaining their characteristics according to applicable standards (shown in the table). > AT-8330 ATSHOCK-P L30: phase-ground protection. Uc = 275 V
> AT-8331 ATSHOCK-P L30-130: phase-ground protection. Uc = 145 V
> AT-8332 ATSHOCK-P L30-400: phase-ground protection. Uc = 440 V

APLICACIONES

FECNOLÓGICAS

> AT-8397 ATSHOCK-P N60: neutral-ground protection

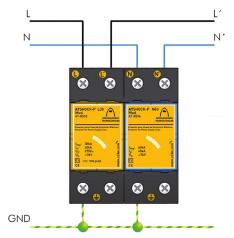
High protection against transient overvoltages for power supply lines at the point they **enter the building**. ATSHOCK series provide protection even against **direct lightning strikes**. Tested and certified with lightning impulse current, **30 kA**, **10/350 µs** wave in removable modules.

> INSTALLATION

ATSHOCK-P 30 surge protection devices are to be installed **in parallel** with the low voltage supply line, connected to phase and ground (ATSHOCK L30) or to neutral and ground (ATSHOCK N60). ATSHOCK L30 is required for each phase.

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 an ATLINK decoupling inductor, 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.





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 10Ω . 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.



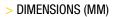
> PROTECTION OF POWER SUPPLY LINES

> ATSHOCK SERIES

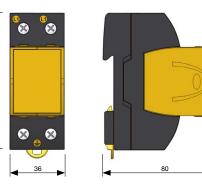
> TECHNICAL DATASHEET

Reference		ATSHOCK-P L30 AT-8330	ATSHOCK-P L30-130 AT-8331	ATSHOCK-P L30-400 AT-8332	ATSHOCK-P N60 AT-8397
Protection categories according to the REBT:		III and IV			
Type of tests according to EN 61643-11:		Type 1			
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}	30 kA			60 kA
Specific energy:	W/R	224 kJ/Ω			900 kJ/Ω
Nominal discharge current (8/20 µs wave):	I,	40 kA			
Protection level for I_n (8/20 µs):	Up	2 kV			900 V
Follow current extinguishing capability:	I _f	50 kA _{eff}			100 A _{eff}
Response time:	t,	< 100 ns			
Backup fuse ⁽¹⁾ :		160 A gL/gG -			
Maximum short-circuit current:		50 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			
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 61643-1 Complies with requirements of: UL 1449 Relevant standards: UNE 21186, NF C 17-102, II					

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



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> ACCESSORIES



> AT-8333 ATSHOCK-P L30 Mod.: I_{imp} 30 kA. Un 230 V

AT-8334 ATSHOCK-P L30-130 Mod.: I_{imp} 30 kA. Un 130 V
AT-8335 ATSHOCK-P L30-400 Mod.: I_{imp} 30 kA. Un 400 V

> AT-8336 ATSHOCK-P N60 Mod.: I imp 60 kA.

