

## AT84 Series

# DECOUPLING INDUCTOR FOR SPD POWER SUPPLY COORDINATION



## ATLINK

AT-8435 ATLINK 35: lines with  $I_N \leq 35A$

AT-8463 ATLINK 63: lines with  $I_N \leq 63A$

A proper protection against transient overvoltages needs a good coordination between SPDs. ATLINK inductors provide **decoupling between SPDs** when they are connected in parallel at a same line. Thus, each one acts at the right moment, achieving the double objective: withstanding the lightning current and reducing the overvoltage to an acceptable level for the connected equipment.

One ATLINK is needed for each line and another for neutral. For their selection the line **working current must be taken into account**, since this current will flow continuously through the device.

Its coordination capability has been tested and certified using **lightning wave 10/350µs** according to EN 61643-11.

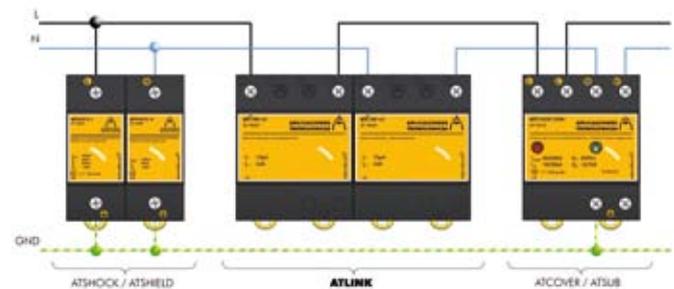
- Allows the installation of SPDs of different classes in the same place, since the inductor substitutes the necessary length of cable for SPD coordination.
- Robust connectors, suitable for all kind of connections.

ATLINK devices have been tested in **official, independent laboratories**, verifying their working for a proper SPD coordination.

## Installation

**ATLINK** inductors are to be installed in series with the LV power supply line, that is, cutting the line and connecting the obtained cable ends to the input and output connectors of the ATLINK. One ATLINK is needed for each line and another one for the neutral. **There is no ground connection.**

The **power should be disconnected** during the installation of the SPD. Coordinates mainly ATSHOCK and ATSHIELD with ATSUB and/or ATCOVER surge protective devices when they cannot be separated by a cable at least 10 meters long.



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### Technical Datasheet

Reference		ATLINK 35 AT-8435	ATLINK 63 AT-8463
Protection categories according to REBT:		I, II, III, IV	
Maximum working current:	$I_L$	35A	63A
Nominal Voltage:	$U_n$	230V <sub>AC</sub>	
Maximum continuous operating voltage:	$U_c$	255V <sub>AC</sub>	
Nominal frequency:		50 - 60Hz	
Maximum current (8/20 $\mu$ s wave):	$I_{max}$	100 kA	
Impulse coordinated current (10/350 $\mu$ s wave):	$I_{imp}$	100 kA	
Inductancia:	L	15 $\mu$ H	
Resistance:		3m $\Omega$	
SPD location:		Indoor	
Type of connection:		Series (two ports)	
Working temperature:	$\vartheta$	-40°C to +70°C	
Dimensions:		72 x 90 x 80mm (4 mod. DIN43880)	
Fixing:		DIN Rail	
Enclosure material:		Polyamide	
Enclosure protection:		IP20	
Insulation resistance:		> 10 <sup>14</sup> $\Omega$	
Autoextinguish enclosure:		V-0 Type according to UNE-EN 60707 (UL94)	
Connections L/N/G:		Min/Max section multi-stranded: 4 / 35 mm <sup>2</sup> (11/2 AWG) Min/Max section single-stranded: 1 / 35 mm <sup>2</sup> (17/2 AWG)	
Certificated tests according to: IEC 61643-1, EN 61643-11			
Complies with requirements of: UL 1449			
Relevant standards: UNE 21186, NFC 17102, IEC 62305			

### Dimensions

