

## ATCOMPACT Series

### MULTI-POLE POWER SUPPLY PROTECTION BOX INCLUDING PROTECTIVE FUSES



## ATCOMPACT

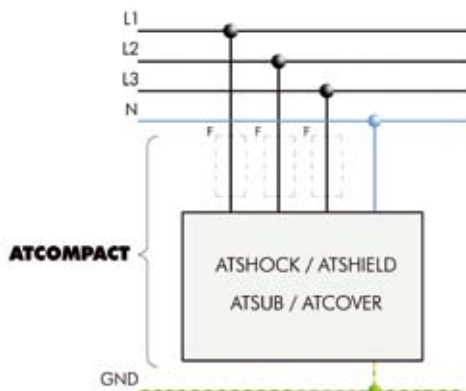
**ATCOMPACT** protection boxes are made of several kind of SPD aiming the protection of all lines out from single-phase SPD, including the protective fuses against short circuits.

**ATCOMPACT** Surge Protective Devices are to be installed in parallel with the supply line, without altering at all its way of working under normal conditions. Combinations can be made for protection either in common mode (ground referred) or differential (between line/s and neutral). Compact box, easy to install and with the same advantages as Aplicaciones Tecnológicas SPDs give: robust, quick, reliable and tested according current standards (EN 61643-11) in **official independent laboratories**.

### Installation

**ATCOMPACT** boxes are to be installed in parallel with the Low Voltage supply line, connected to line, neutral and ground. **Fuses or circuit breakers must be present** upstream. They will be disconnected during the installation for working security.

When this **ATCOMPACT** is installed as middle protection, other protectors must be separated by at least 10 meter cable or, if this is not possible, by decoupling inductors **ATLINK**, in order to achieve a correct coordination between them.



#### AT-8131 ATCOMPACT M2 30kA:

*Protection for single phase lines with ATCOVER 230M*

#### AT-8130 ATCOMPACT T2 30kA:

*Protection for three phase lines with ATCOVER 400T*

#### AT-8117 ATCOMPACT M2 15kA:

*Protection for single phase lines with ATSUB-2P 15*

#### AT-8122 ATCOMPACT T2 15kA:

*Protection for three phase lines with ATSUB-4P 15*

#### AT-8139 ATCOMPACT M2 40kA:

*Protection for single phase lines with ATSUB-2P 40*

#### AT-8140 ATCOMPACT T2 40kA:

*Protection for three phase lines with ATSUB-4P 40*

#### AT-8119 ATCOMPACT M2 65kA

*Protection for single phase lines with ATSUB-2P 65*

#### AT-8120 ATCOMPACT T2 65kA:

*rotection for three phase lines with ATSUB-4P 65*

#### AT-8161 ATCOMPACT M1 30kA:

*Protection for single phase lines with ATSHIELD 230M*

#### AT-8160 ATCOMPACT T1 30kA:

*Protection for three phase lines with ATSHIELD 400T*

#### AT-8149 ATCOMPACT M1 50kA:

*Protection for single phase lines with ATSHOCK*

#### AT-8150 ATCOMPACT T1 50kA:

*Protection for three phase lines with ATSHOCK*

### General nomenclature

#### ATCOMPACT T2 15kA

T1: Three-phase protection type 1

T2: Three-phase protection type 2

M1: Single-phase protection type 1

M2: Single-phase protection type 2

Max. discharge  
current for pole



**Earth connection is a must.** Earthing in all the installation must be bonded either directly or by a spark gap and resistance should be lower than 10Ω. If the indications of this datasheet are not fulfilled during the use or installation of the SPDs, the protection assured by this device could be endangered.

## ATCOMPACT Series

### Technical Datasheet

Reference		ATCOMPACT M2 40kA AT-8139
Protection categories according to REBT:		I, II, III, IV
Type of tests according to EN 61643-11:		Type 2
Nominal voltage:	$U_n$	230V <sub>AC</sub>
Maximum working voltage:	$U_c$	255V <sub>AC</sub>
Nominal frequency:		50 – 60Hz
Nominal discharge current (wave 8/20μs):	$I_n$	20kA
Maximum discharge current (8/20μs wave):	$I_{max}$	40kA
Protection level (1,2/50μs wave):	$U_p$	700V
Protection level at $I_n$ (8/20μs wave):	$U_p(I_n)$	1400V
Response time:	$t_r$	< 25ns
Included fuse:		50A gG
Maximum short-circuit current:		100kA
Working temperature:	$\vartheta$	-40°C to +70°C
SPD location:		Outdoor
Type of connection:		Parallel (one port)
Number of poles:		2
Dimensions:		280 x 159 x 112 mm
Fixing:		Wall or vertical support
Enclosure material:		Autoextinguishing, isolating
Enclosure protection:		IP65 according to IEC 60.529
Enclosure:		Double (Class II)
Fire resistance:		650°C according to IEC 695-2-1
Impact protection:		IK09 according to EN 50.102
Connections L/N/GND:		Maximum section 25 mm <sup>2</sup>
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

