> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

> ATCOMPACT CDA

Multi-pole power supply protection cabinet including protective fuses

> NOMENCLATURE

ATCOMPACT CDA-**T1** **15 kA**

- T1: Three-phase type 1 protection
- T2: Three-phase type 2 protection
- M1: Single-phase type 1 protection
- M2: Single-phase type 2 protection

Peak current per pole

Reference	Model	Description
AT-8190	ATCOMPACT CDA T1 15 kA	Three-phase protection with 3 x ATSUB65 + ATSUB N in double isolation box
AT-8191	ATCOMPACT CDA T1 25 kA	Three-phase protection with 3 x ATSUB100 + ATSHOCK N in double isolation box
AT-8192	ATCOMPACT CDA T1 30 kA	Three-phase protection with 3 x ATSHOCK30 + ATSHOCK N in double isolation box

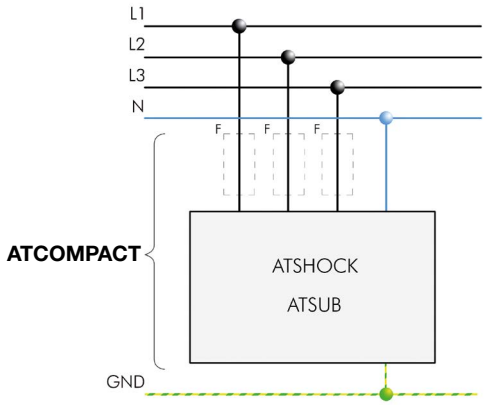
ATCOMPACT protection cabinets are made of several protectors from the same series with the aim of protecting all of the phases, including the protective fuses, against short-circuits.

ATCOMPACT surge protection devices are to be installed **in parallel** with the supply line, without affecting operation under normal conditions in any way at all. Combinations can be made for protection either in common (in relation to ground) or differential mode (between phase/s and neutral).
Compact box, easy to install and with the same advantages as Aplicaciones Tecnológicas protectors: robust, quick, reliable and tested according to applicable standards (EN 61643-11) in **official and independent laboratories.**

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

ATCOMPACT boxes are to be installed **in parallel** with the low voltage supply line, connected to the phases, neutral and ground.
Installation should be carried out without power in the line.
When ATCOMPACT protectors are installed as medium protection, they must be separated from coarse and/or tight protectors by at least 10 metres of cable or, if this is not possible, by ATLINK decoupling inductors in order to achieve **correct coordination between them.**



> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

> ATCOMPACT CDA T1 15 KA

Compact protection for three-phase power supply in double insulation cabinet.

> TECHNICAL DATASHEET

Reference:		**AT-8190**
Protection categories according to the REBT:		II, III, 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-GND)
Maximum continuous operating voltage:	U_c	440 V_{AC} (L-L) 275 V_{AC} (L-GND)
Nominal frequency:		50 – 60 Hz
Nominal discharge current (8/20 µs wave):	I_n	30 kA
Maximum discharge current per pole (8/20 µs wave):	I_{max}	65 kA
Impulse current per pole (10/350 µs wave):	I_{imp}	15 kA
Protection level for 1.2/50 µs wave:	U_p	900 V
Protection level, 8/20 µs wave at I_n:	$U_p(I_n)$	1600 V
Response time:	t_r	< 25 ns
Fuse included:		80A gG
Maximum fuse short-circuit current:		100 kA
Working temperature:	ϑ	-40 ºC to +80 ºC
Protector location:		Outdoor
Type of connection:		Parallel (one port)
No. of poles:		4
Dimensions:		380 x 285 x 190 mm
Fixing:		Wall or vertical support
Box material:		Self-extinguishing, insulating
IP Code:		IP65 according to IEC 60.529
Insulation:		Double (class II)
Fire resistance:		650 ºC according to IEC 60695-2-1
Impact protection:		IK09 according to EN 50.102
Connections L/N/G:		25 mm^2 maximum section

Certificated tests according to: UNE-EN 61643-11
Complies with requirements of: UL 1449
Relevant standards: UNE 21186, NF C 17-102, IEC 62305

> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

> ATCOMPACT CDA T1 25 KA

Compact protection for three-phase power supply in double insulation cabinet.

> TECHNICAL DATASHEET

Reference:		**AT-8191**
Protection categories according to the REBT:		II, III, 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-GND)
Maximum continuous operating voltage:	U_c	440 V_{AC} (L-L) 275 V_{AC} (L-GND)
Nominal frequency:		50 – 60 Hz
Nominal discharge current (8/20 µs wave):	I_n	30 kA
Maximum discharge current per pole (8/20 µs wave):	I_{max}	100 kA
Impulse current per pole (10/350 µs wave):	I_{imp}	25 kA
Protection level for 1.2/50 µs wave:	U_p	1500 V
Protection level, 8/20 µs wave at I_n:	$U_p(I_n)$	2400 V
Response time:	t_r	< 25 ns
Fuse included:		80A gG
Maximum fuse short-circuit current:		100 kA
Working temperature:	ϑ	-40 °C to +80 °C
Protector location:		Outdoor
Type of connection:		Parallel (one port)
No. of poles:		4
Dimensions:		380 x 285 x 190 mm
Fixing:		Wall or vertical support
Box material:		Self-extinguishing, insulating
IP Code:		IP65 according to IEC 60.529
Insulation:		Double (class II)
Fire resistance:		650 °C according to IEC 60695-2-1
Impact protection:		IK09 according to EN 50.102
Connections L/N/G:		25 mm^2 maximum section

Certificated tests according to: UNE-EN 61643-11
Complies with requirements of: UL 1449
Relevant standards: UNE 21186, NF C 17-102, IEC 62305

> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

> ATCOMPACT CDA T1 30 KA

Compact protection for three-phase power supply in double insulation cabinet.

> TECHNICAL DATASHEET

Reference:		**AT-8192**
Protection categories according to the REBT:		II, III, IV
Type of tests according to EN 61643-11:		Type 1
Nominal voltage:	U_n	400 V_{AC} (L-L) 230 V_{AC} (L-GND)
Maximum continuous operating voltage:	U_c	440 V_{AC} (L-L) 275 V_{AC} (L-GND)
Nominal frequency:		50 – 60 Hz
Nominal discharge current (8/20 µs wave):	I_n	40 kA
Impulse current per pole (10/350 µs wave):	I_{imp}	30 kA
Protection level for 1.2/50 µs wave:	U_p	2500 V
Protection level, 8/20 µs wave at I_n:	$U_p(I_n)$	3000 V
Response time:	t_r	< 25 ns
Fuse included:		80A gG
Maximum fuse short-circuit current:		100 kA
Working temperature:	ϑ	-40 ºC to +80 ºC
Protector location:		Outdoor
Type of connection:		Parallel (one port)
No. of poles:		4
Dimensions:		380 x 285 x 190 mm
Fixing:		Wall or vertical support
Box material:		Self-extinguishing, insulating
IP Code:		IP65 according to IEC 60.529
Insulation:		Double (class II)
Fire resistance:		650 ºC according to IEC 60695-2-1
Impact protection:		IK09 according to EN 50.102
Connections L/N/G:		25 mm^2 maximum section

Certificated tests according to: UNE-EN 61643-11
Complies with requirements of: UL 1449
Relevant standards: UNE 21186, NF C 17-102, IEC 62305