



> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

> ATCOMPACT

Multi-pole power supply protection cabinet including protective fuses



> NOMENCLATURE

ATCOMPACT T2 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

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 altering its operation under normal conditions. 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 current standards (EN 61643-11) **in official 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.

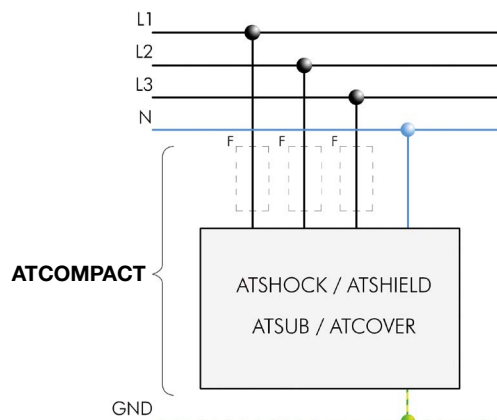
Reference	Model	Description
AT-8131	ATCOMPACT M2 30 kA	Protection for single-phase lines with ATCOVER 230M
AT-8130	ATCOMPACT T2 30 kA	Protection for three-phase lines with ATCOVER 400T
AT-8117	ATCOMPACT M2 15 kA	Protection for single-phase lines with ATSUB-2P 15
AT-8122	ATCOMPACT T2 15 kA	Protection for three-phase lines with ATSUB-4P 15
AT-8139	ATCOMPACT M2 40 kA	Protection for single-phase lines with ATSUB-2P 40
AT-8140	ATCOMPACT T2 40 kA	Protection for three-phase lines with ATSUB-4P 40
AT-8119	ATCOMPACT M2 65 kA	Protection for single-phase lines with ATSUB-2P 65
AT-8120	ATCOMPACT T2 65 kA	Protection for three-phase lines with ATSUB-4P 65
AT-8161	ATCOMPACT M1 30 kA	Protection for single-phase lines with ATSHIELD 230M
AT-8160	ATCOMPACT T1 30 kA	Protection for three-phase lines with ATSHIELD 400T
AT-8149	ATCOMPACT M1 50 kA	Protection for single-phase lines with ATSHOCK
AT-8150	ATCOMPACT T1 50 kA	Protection for three-phase lines with ATSHOCK

> 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 M2 30 KA

Compact protection for power supply single-phase lines

> TECHNICAL DATASHEET

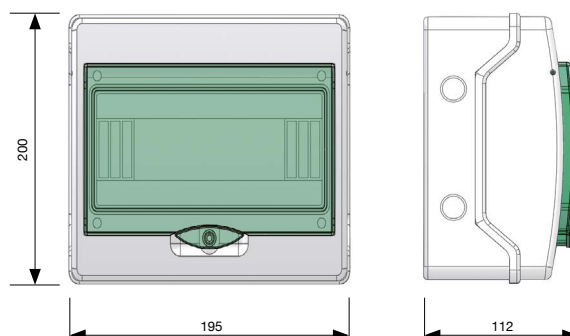
Reference:		AT-8131
Protection categories according to the REBT:		I, II, III, IV
Type of tests according to EN 61643-11:		Type 2 + 3
Nominal voltage:	U_n	230 V _{AC}
Maximum continuous operating voltage:	U_c	275 V _{AC}
Nominal frequency:		50 – 60 Hz
Nominal discharge current (8/20 µs wave):	I_n	10 kA
Maximum discharge current per pole (8/20 µs wave):	I_{max}	30 kA
Protection level for 1.2/50 µs wave:	U_p	700 V
Protection level, 8/20 µs wave at I_n :	$U_p(I_n)$	900 V
Combined wave voltage:	$U_{o.c.}$	6 kV
Residual voltage with 6 kV/3 kA combination wave:		700 V
Response time:	t_r	< 25 ns
Fuse included:		50A gG
Maximum fuse short-circuit current:		100 kA
Working temperature:	ϑ	-40 °C to +70 °C
Protector location:		Outdoor
Type of connection:		Parallel (one port)
No. of poles:		2
Dimensions:		200 x 195 x 112 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

> DIMENSIONS (MM)





> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

> ATCOMPACT T2 30 KA

Compact protection for power supply three-phase lines

> TECHNICAL DATASHEET

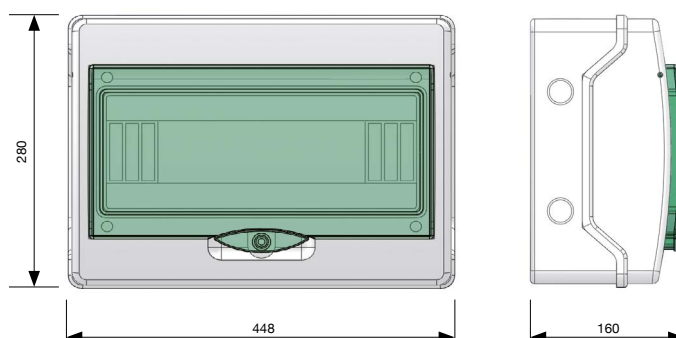
Reference:		AT-8130
Protection categories according to the REBT:		I, II, III, IV
Type of tests according to EN 61643-11:		Type 2 + 3
Nominal voltage:	U_n	400 V _{AC} (L-L) 230 V _{AC} (L-GND)
Maximum continuous operating voltage:	U_c	460 V _{AC} (L-L) 275 V _{AC} (L-GND)
Nominal frequency:		50 – 60 Hz
Nominal discharge current (8/20 µs wave):	I_n	10 kA
Maximum discharge current per pole (8/20 µs wave):	I_{max}	30 kA
Protection level for 1.2/50 µs wave:	U_p	700 V
Protection level, 8/20 µs wave at I_n :	$U_p(I_n)$	900 V
Combined wave voltage:	$U_{o.c.}$	6 kV
Residual voltage with 6 kV/3 kA combination wave:		700 V
Response time:	t_r	< 25 ns
Fuse included:		50A gG
Maximum fuse short-circuit current:		100 kA
Working temperature:	ϑ	-40 °C to +70 °C
Protector location:		Outdoor
Type of connection:		Parallel (one port)
No. of poles:		4
Dimensions:		280 x 448 x 160 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

> DIMENSIONS (MM)





> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

> ATCOMPACT M2 15 KA

Compact protection for power supply single-phase lines

> TECHNICAL DATASHEET

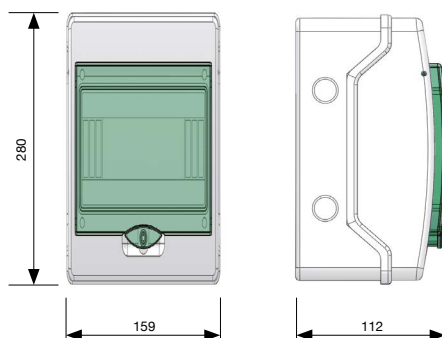
Reference:		AT-8117
Protection categories according to the REBT:		I, II, III, IV
Type of tests according to EN 61643-11:		Type 2 + 3
Nominal voltage:	U_n	230 V _{AC}
Maximum continuous operating voltage:	U_c	275 V _{AC}
Nominal frequency:		50 – 60 Hz
Nominal discharge current (8/20 µs wave):	I_n	5 kA
Maximum discharge current per pole (8/20 µs wave):	I_{max}	15 kA
Protection level for 1.2/50 µs wave:	U_p	700 V
Protection level, 8/20 µs wave at I_n :	$U_p(I_n)$	1200 V
Combined wave voltage:	$U_{o.c.}$	6 kV
Response time:	tr	< 25 ns
Fuse included:		50A gG
Maximum fuse short-circuit current:		100 kA
Working temperature:	θ	-40 °C to +70 °C
Protector location:		Outdoor
Type of connection:		Parallel (one port)
No. of poles:		2
Dimensions:		280 x 159 x 112 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

> DIMENSIONS (MM)





> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

> ATCOMPACT T2 15 KA

Compact protection for power supply three-phase lines

> TECHNICAL DATASHEET

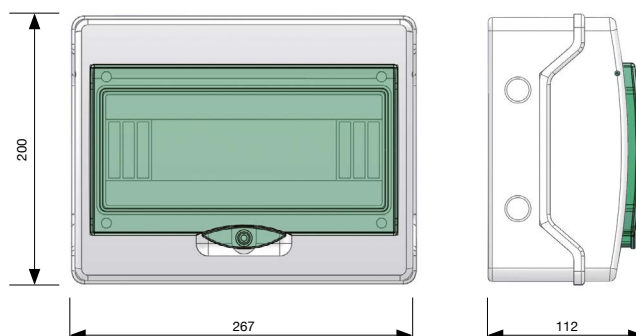
Reference:		AT-8122
Protection categories according to the REBT:		I, II, III, IV
Type of tests according to EN 61643-11:		Type 2 + 3
Nominal voltage:	U_n	400 V _{AC} (L-L) 230 V _{AC} (L-GND)
Maximum continuous operating voltage:	U_c	460 V _{AC} (L-L) 275 V _{AC} (L-GND)
Nominal frequency:		50 – 60 Hz
Nominal discharge current (8/20 µs wave):	I_n	5 kA
Maximum discharge current per pole (8/20 µs wave):	I_{max}	15 kA
Protection level for 1.2/50 µs wave:	U_p	700 V
Protection level, 8/20 µs wave at I_n :	$U_p(I_n)$	1200 V
Combined wave voltage:	$U_{o.c.}$	6 kV
Response time:	t_r	< 25 ns
Fuse included:		50A gG
Maximum fuse short-circuit current:		100 kA
Working temperature:	ϑ	-40 °C to +70 °C
Protector location:		Outdoor
Type of connection:		Parallel (one port)
No. of poles:		4
Dimensions:		200 x 267 x 112 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

> DIMENSIONS (MM)





> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

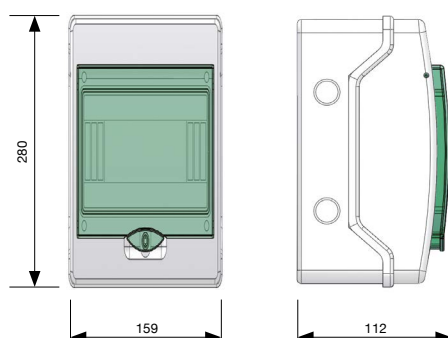
> ATCOMPACT M2 40 KA

Compact protection for power supply single-phase lines

> TECHNICAL DATASHEET

Reference:		AT-8139
Protection categories according to the REBT:		I, II, III, IV
Type of tests according to EN 61643-11:		Type 2
Nominal voltage:	U_n	230 V _{AC}
Maximum continuous operating voltage:	U_c	275 V _{AC}
Nominal frequency:		50 – 60 Hz
Nominal discharge current (8/20 μ s wave):	I_n	20 kA
Maximum discharge current per pole (8/20 μ s wave):	I_{max}	40 kA
Protection level for 1.2/50 μ s wave:	U_p	700 V
Protection level, 8/20 μ s wave at I_n :	$U_p(I_n)$	1400 V
Response time:	t_r	< 25 ns
Fuse included:		50A gG
Maximum fuse short-circuit current:		100 kA
Working temperature:	ϑ	-40 °C to +70 °C
Protector location:		Outdoor
Type of connection:		Parallel (one port)
No. of poles:		2
Dimensions:		280 x 159 x 112 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		

> DIMENSIONS (MM)





> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

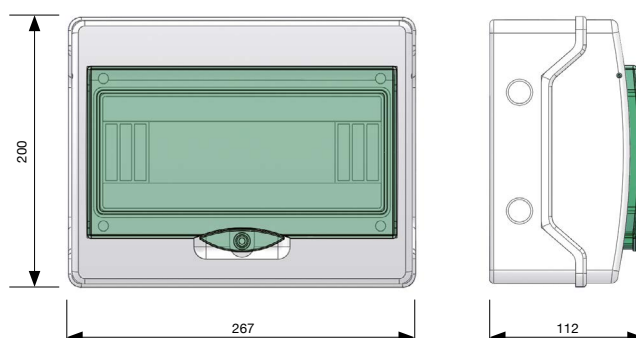
> ATCOMPACT T2 40 KA

Compact protection for power supply three-phase lines

> TECHNICAL DATASHEET

Reference:		AT-8140
Protection categories according to the REBT:		I, II, III, IV
Type of tests according to EN 61643-11:		Type 2
Nominal voltage:	U_n	400 V _{AC} (L-L) 230 V _{AC} (L-GND)
Maximum continuous operating voltage:	U_c	460 V _{AC} (L-L) 275 V _{AC} (L-GND)
Nominal frequency:		50 – 60 Hz
Nominal discharge current (8/20 μs wave):	I_n	20 kA
Maximum discharge current per pole (8/20 μs wave):	I_{max}	40 kA
Protection level for 1.2/50 μs wave:	U_p	700 V
Protection level, 8/20 μs wave at I_n :	$U_p(I_n)$	1400 V
Response time:	t_r	< 25 ns
Fuse included:		50A gG
Maximum fuse short-circuit current:		100 kA
Working temperature:	ϑ	-40 °C to +70 °C
Protector location:		Outdoor
Type of connection:		Parallel (one port)
No. of poles:		4
Dimensions:		200 x 267 x 112 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		

> DIMENSIONS (MM)





> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

> ATCOMPACT M2 65 KA

Compact protection for power supply single-phase lines

> TECHNICAL DATASHEET

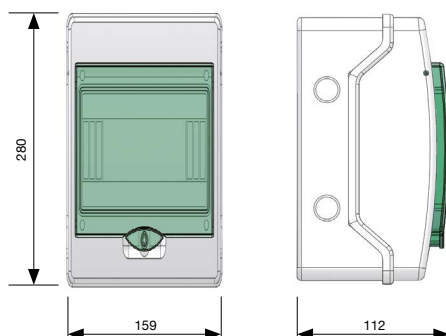
Reference:		AT-8119
Protection categories according to the REBT:		II, III, IV
Type of tests according to EN 61643-11:		Type 1 + 2
Nominal voltage:	U_n	230 V _{AC}
Maximum continuous operating voltage:	U_c	275 V _{AC}
Nominal frequency:		50 – 60Hz
Nominal discharge current (8/20 μ s wave):	I_n	30 kA
Maximum discharge current per pole (8/20 μ s wave):	I_{max}	65 kA
Impulse current per pole (10/350 μ s wave):	I_{imp}	15 kA
Protection level for 1.2/50 μ s wave:	U_p	900 V
Protection level, 8/20 μ s wave at I_n :	$U_p(I_n)$	1600 V
Response time:	t_r	< 25 ns
Fuse included:		50A gG
Maximum fuse short-circuit current:		100 kA
Working temperature:	ϑ	-40 °C to +70 °C
Protector location:		Outdoor
Type of connection:		Parallel (one port)
No. of poles:		2
Dimensions:		280 x 159 x 112 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

> DIMENSIONS (MM)





> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

> ATCOMPACT T2 65 KA

Compact protection for power supply single-phase lines

> TECHNICAL DATASHEET

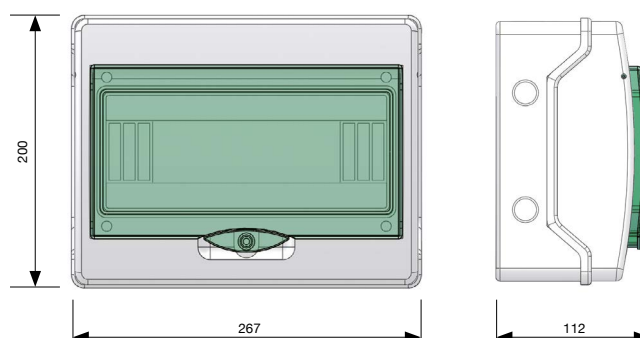
Reference:		AT-8120
Protection categories according to the REBT:		II, III, IV
Type of tests according to EN 61643-11:		Type 1 + 2
Nominal voltage:	U_n	400 V _{AC} (L-L) 230 V _{AC} (L-GND)
Maximum continuous operating voltage:	U_c	460 V _{AC} (L-L) 275 V _{AC} (L-GND)
Nominal frequency:		50 – 60 Hz
Nominal 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:		50A gG
Maximum fuse short-circuit current:		100 kA
Working temperature:	ϑ	-40 °C to +70 °C
Protector location:		Outdoor
Type of connection:		Parallel (one port)
No. of poles:		4
Dimensions:		200 x 267 x 112 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

> DIMENSIONS (MM)





> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

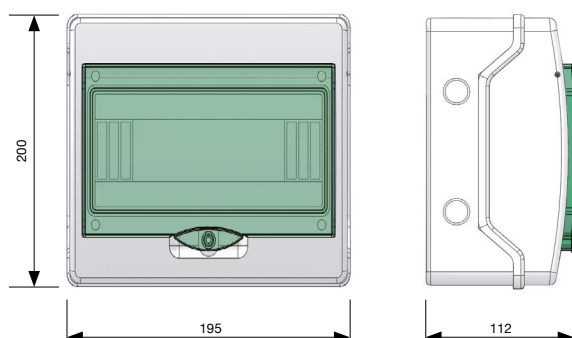
> ATCOMPACT M1 30 KA

Compact protection for power supply single-phase lines

> TECHNICAL DATASHEET

Reference:		AT-8161
Protection categories according to the REBT:		I, II, III, IV
Type of tests according to EN 61643-11:		Type 1 + 2
Nominal voltage:	U_n	230 V _{AC}
Maximum continuous operating voltage:	U_c	275 V _{AC}
Nominal frequency:		50 – 60 Hz
Nominal discharge current (8/20 µs wave):	I_n	40 kA
Maximum discharge current per pole (8/20 µs wave):	I_{max}	65 kA
Impulse current per pole (10/350 µs wave):	I_{imp}	30 kA
Protection level:	U_p	1500 V
Response time:	t_r	< 100 ns
Fuse included:		80A gG
Maximum fuse short-circuit current:		100 kA
Working temperature:	θ	-40 °C to +70 °C
Protector location:		Outdoor
Type of connection:		Parallel (one port)
No. of poles:		2
Dimensions:		200 x 195 x 112 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		

> DIMENSIONS (MM)





> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

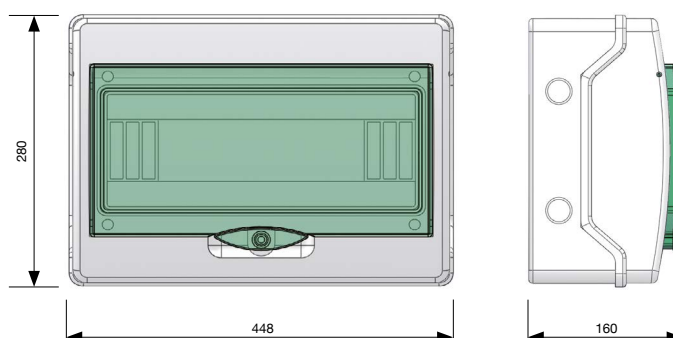
> ATCOMPACT T1 30 KA

Compact protection for power supply three-phase lines

> TECHNICAL DATASHEET

Reference:		AT-8160
Protection categories according to the REBT:		I, 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	460 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
Maximum discharge current per pole (8/20 µs wave):	I_{max}	65 kA
Impulse current per pole (10/350 µs wave):	I_{imp}	30 kA
Protection level:	U_p	1500 V
Response time:	t_r	< 100 ns
Fuse included:		80A gG
Maximum fuse short-circuit current:		100 kA
Working temperature:	9	-40 °C to +70 °C
Protector location:		Outdoor
Type of connection:		Parallel (one port)
No. of poles:		4
Dimensions:		280 x 448 x 160 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		

> DIMENSIONS (MM)





> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

> ATCOMPACT M1 50 KA

Compact protection for power supply single-phase lines

> TECHNICAL DATASHEET

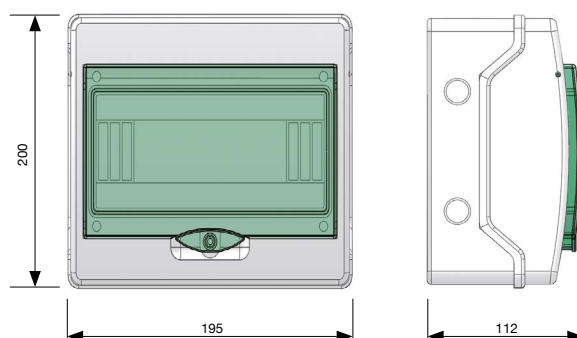
Reference:		AT-8149
Protection categories according to the REBT:		III, IV
Type of tests according to EN 61643-11:		Type 1
Nominal voltage:	U_n	230 V _{AC}
Maximum continuous operating voltage:	U_c	275 V _{AC}
Nominal frequency:		50 – 60 Hz
Nominal discharge current (8/20 μs wave):	I_n	50 kA
Impulse current per pole (10/350 μs wave):	I_{max}	50 kA
Protection level:	U_p	4000 V
Response time:	t_r	< 100 ns
Fuse included:		80A gG
Maximum fuse short-circuit current:		100 kA
Working temperature:	ϑ	-40 °C to +70 °C
Protector location:		Outdoor
Type of connection:		Parallel (one port)
No. of poles:		2
Dimensions:		200 x 195 x 112 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

> DIMENSIONS (MM)





> PROTECTION OF POWER SUPPLY LINES

> ATCOMPACT SERIES

> ATCOMPACT T1 50 KA

Compact protection for power supply three-phase lines

> TECHNICAL DATASHEET

Reference:		AT-8150
Protection categories according to the REBT:		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	460 V _{AC} (L-L) 275 V _{AC} (L-GND)
Nominal frequency:		50 – 60 Hz
Nominal discharge current (8/20 µs wave):	I_n	50 kA
Impulse current per pole (10/350 µs wave):	I_{max}	50 kA
Protection level:	U_p	4000 V
Response time:	t_r	< 100 ns
Fuse included:		80A gG
Maximum fuse short-circuit current:		100 kA
Working temperature:	ϑ	-40 °C to +70 °C
Protector location:		Outdoor
Type of connection:		Parallel (one port)
No. of poles:		4
Dimensions:		280 x 448 x 160 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

> DIMENSIONS (MM)

