



Inspection tests

Careful design checks before
beginning automatic production
....but not only then!

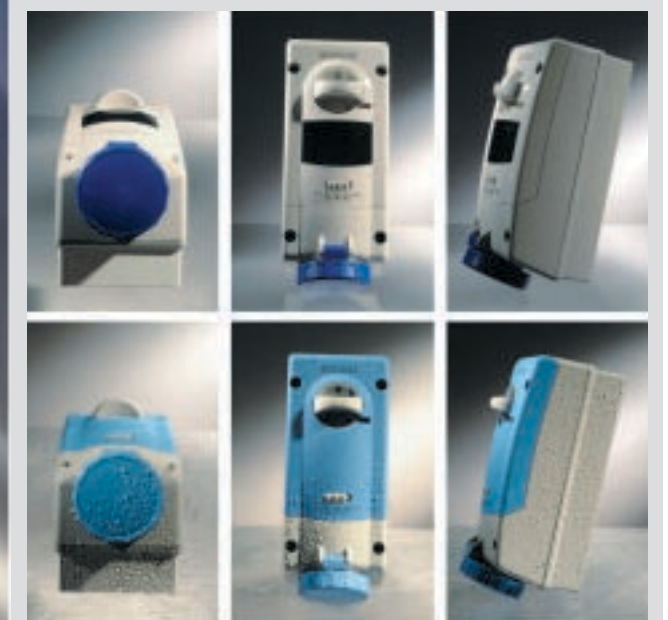


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Section 2.3

INTERLOCKED SWITCH SOCKET OUTLETS



OMNIA System
OMNIA Series
ADVANCE System
ADVANCE Series
ADVANCE2 System
ADVANCE2 Series
QUADRA Series



INTERLOCKED SWITCH SOCKET OUTLETS



GENERAL DESCRIPTION

The technical characteristics of SCAME's wide range of interlocked-switch socket outlets have been carefully tailored to the intended end use of the product, and comply in full with EN 60309-1 (IEC309-1) and EN 60309-2 (IEC309-2) standards. They satisfy the most diverse electrical installation requirements, while improving the degree of safety and reliability in these installations.

The use of interlocked-switch socket outlets is growing steadily. By preventing the insertion and extraction of the plug when alive, connection occurs only under the best circuit conditions and therefore avoids any possibility of contacts giving off sparks which might cause fires.

REFERENCE STANDARDS

International Standard IEC 60309-1
European Standard EN 60309-1
Plugs, socket outlets and couplers for industrial purposes
Part 1: General requirements

International Standard IEC 60309-2
European Standard EN 60309-2
Plugs, socket outlets and couplers for industrial purposes
Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories of harmonised configurations.

VERSIONS

- SCAME produces three series of interlocked-switch socket outlets which integrate perfectly with the systems described in section 2.1 of this catalogue:
- **OMNIA System**
Modular surface and flush mounting enclosures
 - **OMNIA Series**
Surface, flush and panel mounting socket outlets
With mechanical interlock
Without protective devices
Rated current 16-32 A
Rated voltage up to 690 V~
 - **ADVANCE SYSTEM**
Modular enclosures for combination units
 - **ADVANCE Series**
Surface mounting socket outlets
With mechanical or electrical interlock
With and without protective devices
Rated current 16-32-63-125 A
Rated voltage up to 690 V~
 - **QUADRA Series**
Surface mounting socket outlets
With mechanical interlock
Without protective devices
Rated current 16-32 A
Rated voltage up to 690 V~
- All Series may be used in environmental conditions with a high fire risk (CEI 64-8/7 Standard).

TECHNICAL INFORMATION

SCAME's interlocked-switch socket outlets have the following technical characteristics:

- Made in material that is resistant to abnormal heat and fire up to 650 °C (glow-wire test to IEC 60695-2-1)
- Dimensional stability under continuous operation from -25 °C to + 60 °C
- Impact resistance: 6 Joule
- Non-aging elastomer seal
- Resistance to chemicals (water, saline solutions, acids, bases, mineral oils) and weathering
- Stainless steel quick turning locking screws

MATERIALS

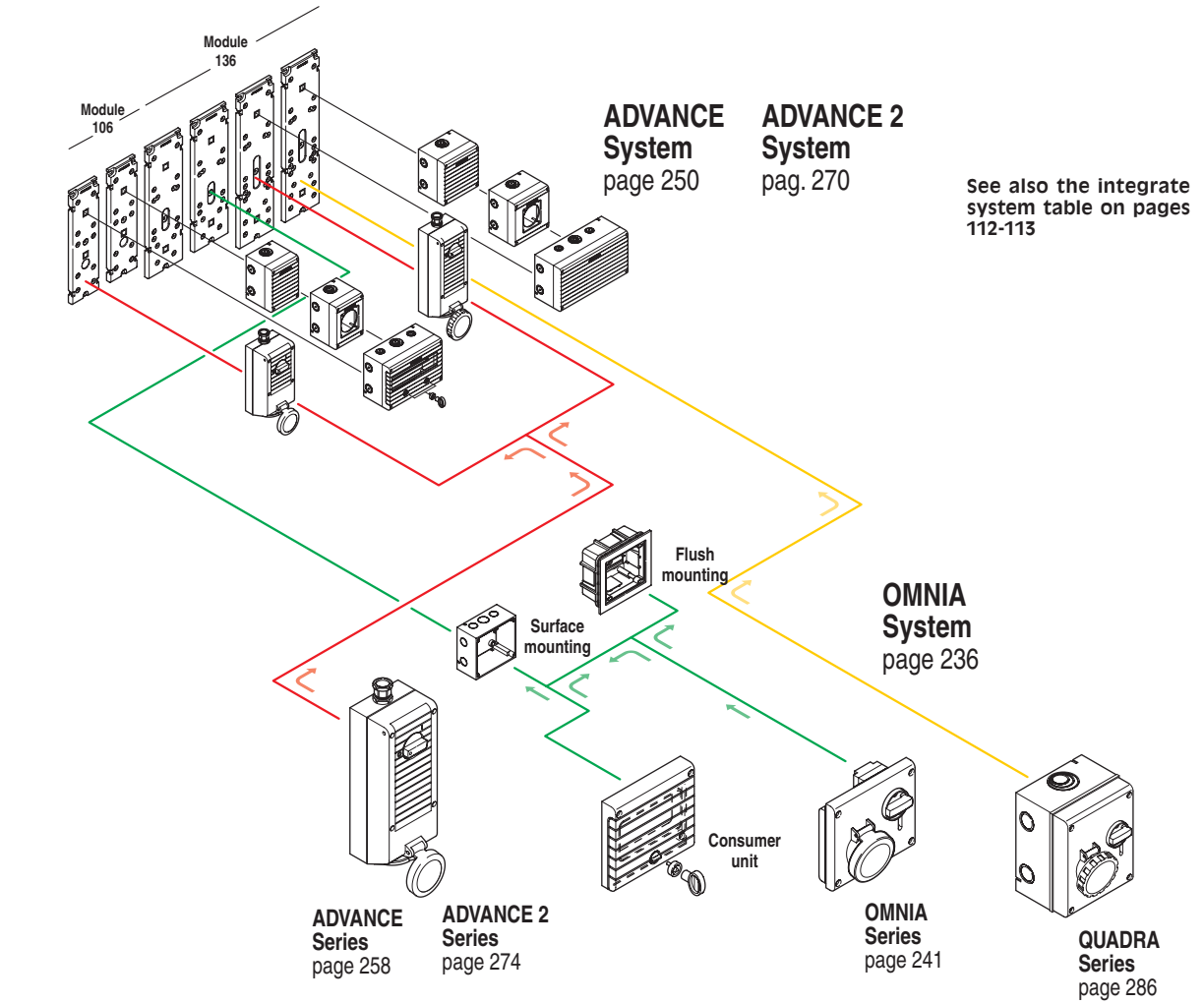
The enclosures of the SCAME interlocked-switch socket outlets are made of a halogen-free, insulating, impact-resistant, self-extinguishing, RAL 7035 grey engineering plastic. They can endure even the harshest climatic conditions, bad weather, sudden changes in temperature, impact or vibrations. The screws, pins and contact tubes undergo special treatment to ensure corrosion resistance in salty mist as prescribed by the standards:

- **UNI ISO 9227**
"Corrosion tests in artificial atmospheres. Performance tests in salty mist"
- **UNI 3666**
"Corrosion of metallic materials. General regulations concerning tests."

The tests were carried out under the following parameters:

- salty atmosphere: 5% NaCl
- test period: 300h
- test temperature: 25°C

The products remain operative after testing.



SCAME Interlocked-switch socket outlets integrated in ADVANCE and OMNIA Systems

- Plugs and sockets
- Adaptors
- Domestic cable reels
- Lampholders
- TV & Phone
- Plates and devices
- Enclosures
- Plugs and sockets
- Interlocked sockets
- Switchgear
- Light fittings
- Distribution assemblies
- Adaptors
- Industrial cable reels
- Accessories
- Wire connectors
- Conduits
- Trunking
- Index

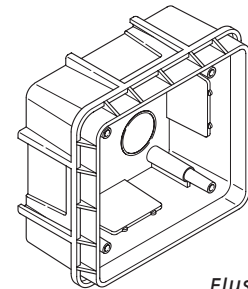
OMNIA SYSTEM - IP55 FLUSH AND SURFACE MOUNTING MODULAR SYSTEM



Ideally suited to installation needs in premises that require industrial sockets but where protrusion from the wall must be kept to a minimum, such as in kitchens, bars, public places, shops and business premises in general.

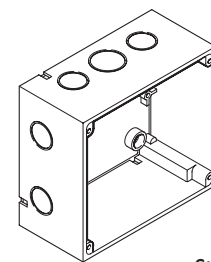
The OMNIA System includes:
 - a flush mounting box
 - a surface mounting box

The **flush mounting box**, which is suitable for walled installations, can be combined both horizontally and vertically with any number of boxes by simply fitting them together with a special coupling insert. This also allows the cable to move easily from one box to the next.



Flush mounting box

The **surface mounting box** is designed for small external installations IP55. In the same flush or surface mounting box 16A and 32A interlocked-switch socket outlets in OMNIA Series IP44 or IP67 can be mounted.



Surface mounting box



Flush mounting combination unit.



Flush mounting combination with OMNIA Series interlocked-switch socket outlet.

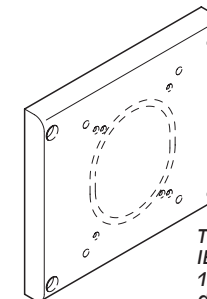
VERSIONS

Both flush and surface mounting boxes can house:

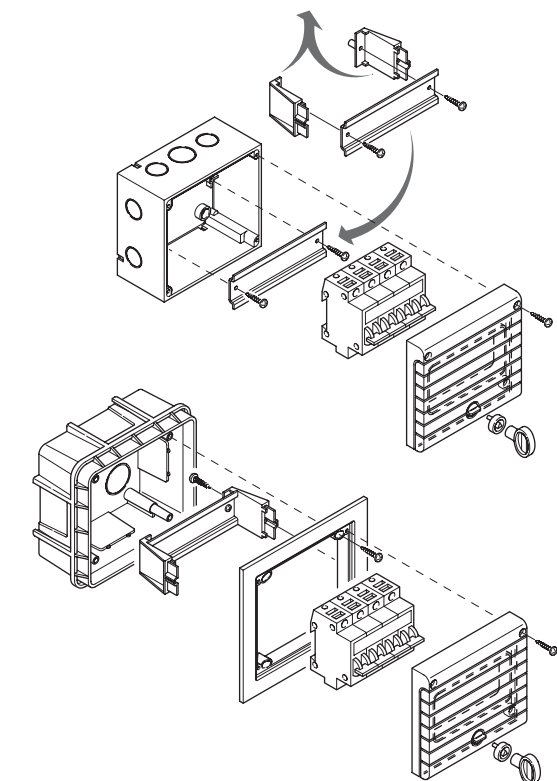
- A **flush mounting interlocked-switch socket outlet**, OMNIA Series from 16 A to 32 A, IP44 or IP67
- A **consumer unit** up to 6 DIN modules (17.5 mm)
- A **blank cover** to provide a junction box

A practical frame gives the flush mounted installation a professional of finish and an attractive appearance.

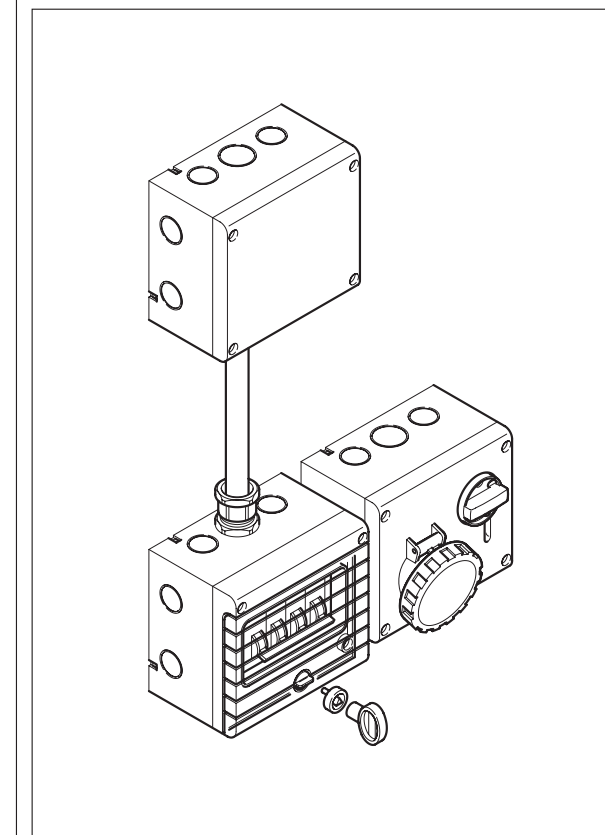
The design of the OMNIA System box enables it to change its functions as required, for example changing from a junction box to a consumer unit, from a consumer unit to an interlocked-switch socket outlet, etc.



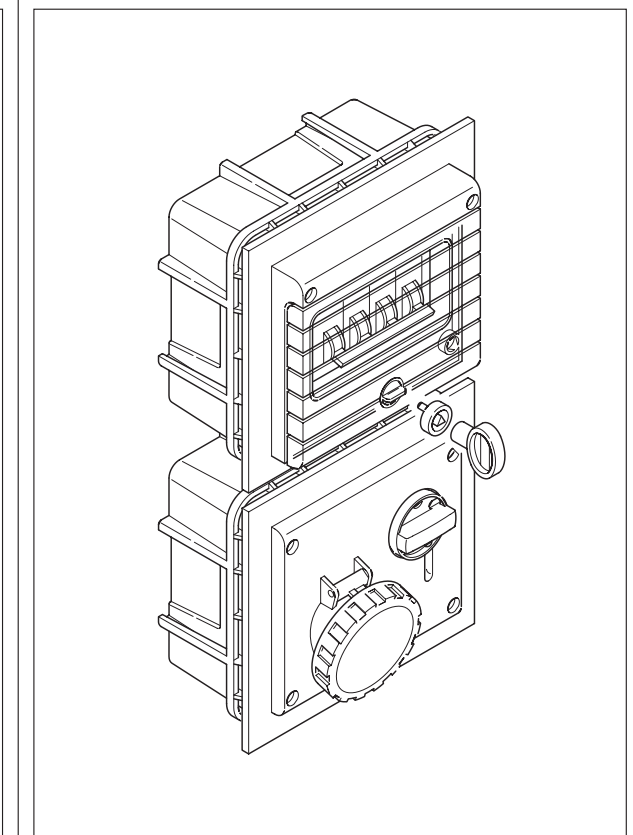
The cover allows for the installation of IEC309 and EUREKA Series socket outlets 16 A, 32 A and 63 A and 16 A sockets for domestic applications



Consumer unit with DIN window.
 Flush or surface mounting installation.



Surface mounting installations.



Flush mounting installation.



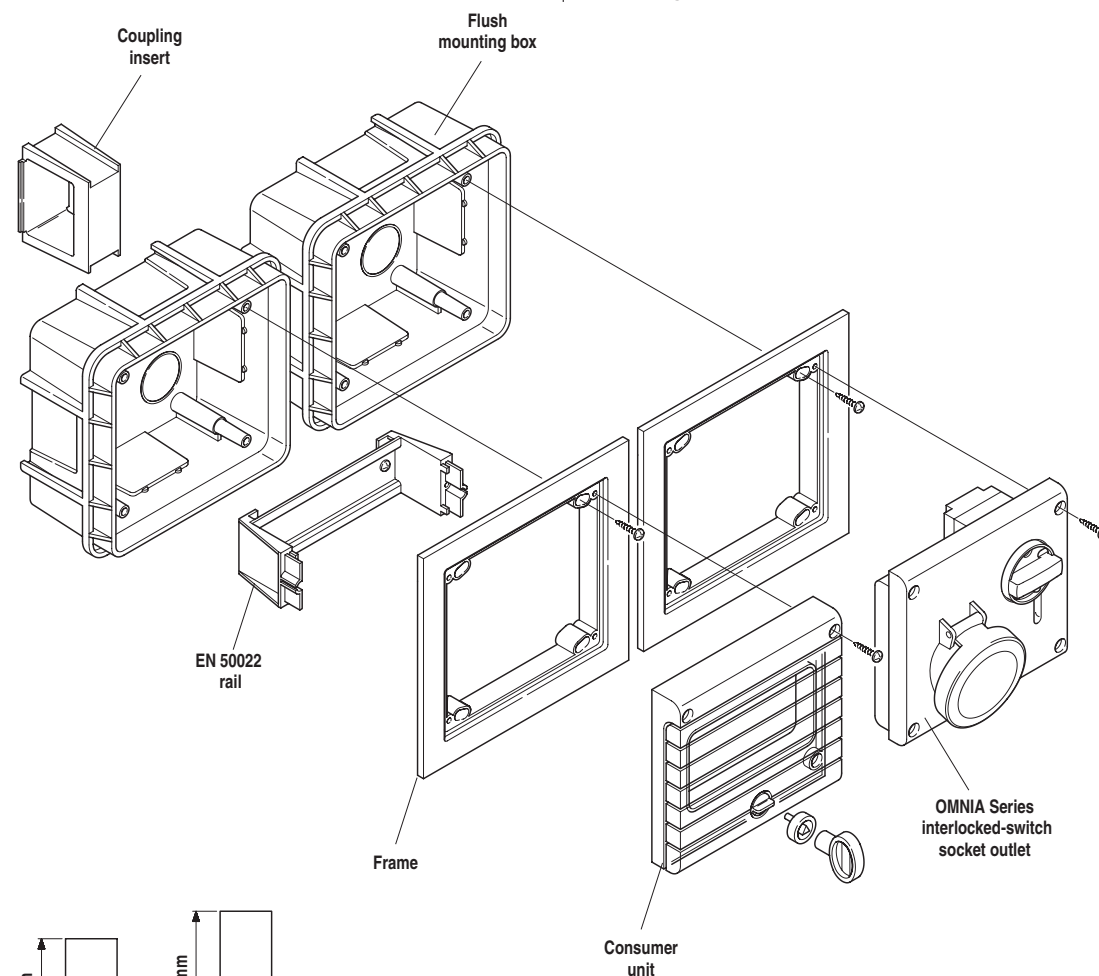
STRUCTURAL CHARACTERISTICS

Flush mounting box

- a single box can be used for housing any of the interlocked-switch socket outlets of the OMNIA Series or for a 6 (*) DIN modules consumer unit or for making up a junction box by using a blank cover.
- 4 rectangular knock-out side entries 53 X 40 mm
- 4 34 mm diameter entries that can be knocked out at the bottom
- coupling insert to provide a passage for the wires from one box to the next without requiring pipes, and for perfect alignment between the boxes

Surface mounting box

- A single box suitable for housing any of the interlocked-switch socket outlets of the OMNIA Series, or a consumer unit for 6 (*) DIN modules or for making up a junction box by using a blank cover.
- Surface mounting by means of 4 slotted holes for easier centring or panel mounting by means of holes on the back of the box.
- Knockout holes on all sides: PG version
 - top: n° 2 PG16 and n° 1 PG 21
 - sides: n° 2 PG16
 - bottom: n° 1 PG21
 - back: n° 2 PG16
- Knockout holes on all sides: metric version
 - top: n° 3 x M20 (M25)
 - sides: n° 2 x M20
 - bottom: n° 2 x M20 (M25)
 - back: n° 2 x M20 (M25)
 (the boxes may be used upside down)
- 2 notches for fastening the EN 50022 rail
- Draining holes on all four sides



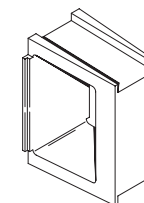
*** Note:** The consumer unit is supplied with an EN 50022 rail. The EN 50022 rail is for fixing onto the frame (to be ordered separately) for flush mounting systems and fastened directly to the bottom of the box when surface mounting. In the consumer unit the following equipment can be installed:

- MCB up to 6 DIN modules
- RCD up to 6 DIN modules
- Combined circuit breakers (RCBO) up to 4 DIN modules
- Modular equipment of up to 6 DIN modules

For applications requiring more DIN modules, please refer to the DOMINO System for surface mounting

TECHNICAL CHARACTERISTICS

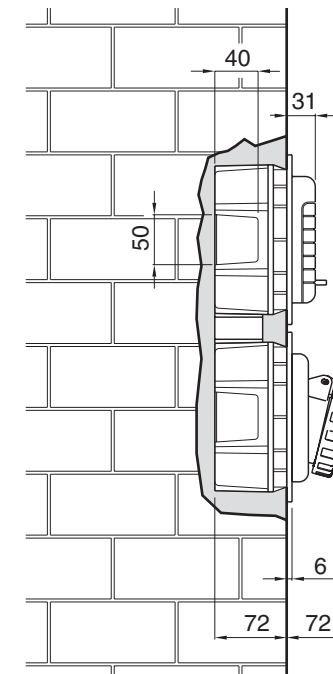
- Protection degree IP55 according to IEC 60529.
- Made of halogen-free self-extinguishing thermoplastic material. RAL 7035 grey, abnormal heat and fire resistant up to 650 °C (glow-wire test to IEC 695-2-1).
- Dimensional stability in continuous operation from -25 °C to +60 °C.
- Impact resistance: 6 Joule
- Resistance to chemicals (water, saline solutions, acids, alkaline, mineral oils) and weathering.
- Stainless steel quick action locking screws.
- Non-ageing elastomer seals.
- Compliance with IEC 60670 (only for boxes coupled to the consumer unit or with blank cover).



Coupler for joining together flush mounting boxes. Several boxes can be combined for walling-in. It also provides easy passage for the cables.



Example of a flush mounting combination: consumer unit, junction box and OMNIA Series interlocked-switch socket outlet. IP55 weatherproof.



Flush mounting installation



Example of a surface mounting combination: consumer unit and OMNIA Series interlocked-switch socket outlet. IP55 weatherproof.



ACCESSORIES

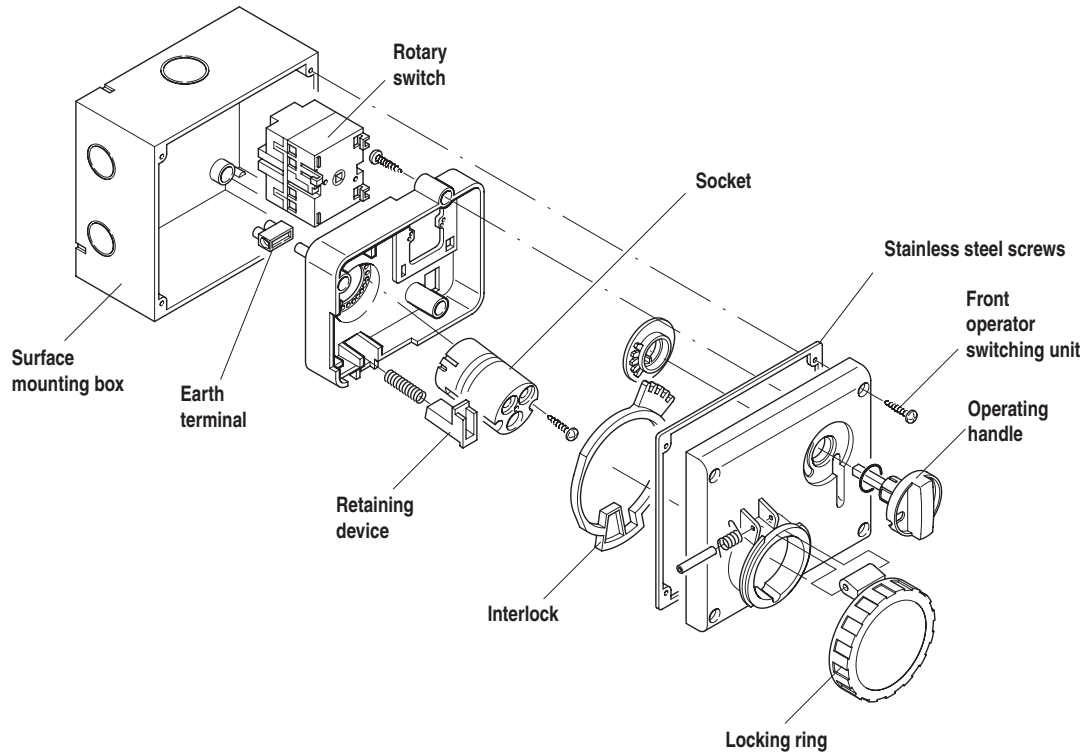
The OMNIA System comes complete with a kit with all fittings for installation. Depending on the product purchased, the kit includes the coupler for joining together the surface mounting boxes, fastening screws and seals, the EN 50022 (17.5mm) rail if required, instructions and any other parts necessary for a proper installation. A protective cover is also available for ensuring IP20 on the back of the OMNIA Series Interlocked-switch socket outlet when panel mounted.

SURFACE MOUNTING SYSTEM

It is available with in an integral unit consisting of one distribution unit and two OMNIA interlock switch sockets fused or unfused. The construction of these products guarantees a robust unit allowing separate removal of the distribution unit or the OMNIA switch interlocks and ensuring quick cabling of the unit. It is possible to construct and assemble these units off site in workshops, enabling installation of units on site utilising the internal/external fixing holes and lugs the distribution unit will accept a blank cover to permit the use of the unit for other purposes ie as a junction box.



Surface mounting system: consumer unit 6 DIN system version.



OMNIA Series
Surface mounting socket outlet
2P+E - 16A - 6h - 220V~



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COMMON COMPONENTS

CONSUMER UNIT ASSEMBLY KIT - IP55*

- DIN modules and supports included
- Installation in the flush mounting box through the frame Art. 572.0220 (page 198)
- Complete with locking knob, triangular locking key and stainless steel fixing screws

DESCRIPTION	DIMENSIONS (mm)	POWER DISSIPATION	PACK QTY.	CATALOGUE NUMBER
6 DIN Modules	136x125x25	10W (•)	6	572.0120

The consumer unit can also be installed in the IP55 DOMINO Series surface mounting boxes (p. 122)
(*) When assembled together with the relevant component
(•) When joined with surface mounting box (product 572.0310 p. 229). Power calculated conforming to CEI 23-49 standards.

BLANK PLATE - IP55*

- Closes the cut-outs foreseen for OMNIA series flush mounting sockets with interlocking-switches
- With knock-out for panel mounting of 16A/32A/63A angled Sockets for EUREKA Series (from page 178) and IEC 309 Series (from page 212)
- Supplied complete with gasket for IP55 and 4 stainless steel screws
- RAL 7035 grey

DESCRIPTION	DIMENSIONS (mm)	PACK QTY.	CATALOGUE NUMBER
Flange 136 x 125mm	136x125x15	6	654.0120

(*) When assembled together with the relevant component

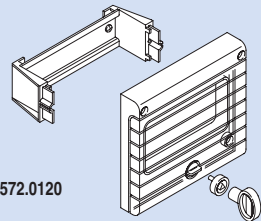
PROTECTION COVER - IP20

- For panel mounting of OMNIA series (page 247) interlocked-switch socket outlets without fuse carrier
- Top and bottom cable entries
- Supplied with 2 fixing screws

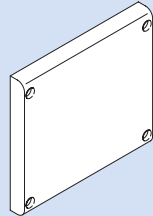
DESCRIPTION	DIMENSIONS (mm)	PACK QTY.	CATALOGUE NUMBER
1 Cover kit	122x98x54	4	572.0330

COVER WITH INSERT - IP55

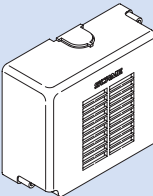
DESCRIPTION	PACK QTY.	CATALOGUE NUMBER
OMNIA cover with insert	6	654.0121



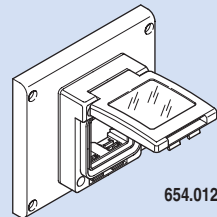
572.0120



654.0120



572.0330



654.0121



COMPONENTS FOR
FLUSH MOUNTING INSTALLATION

FLUSH MOUNTING BOX

- For the installation of OMNIA components in flush mounting applications
- With coupling insert

DESCRIPTION	DIMENSIONS (mm)	PACK QTY.	CATALOGUE NUMBER
1 box kit	160x149x72	6	572.0200
Except 32A fuse versions			

FRAME - IP55

- For the installation of flush mounting boxes (product 572.0200)
- Complete with gasket

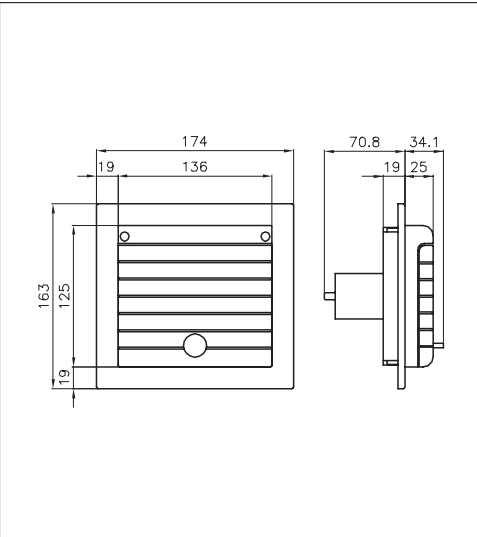
DESCRIPTION	DIMENSIONS (mm)	PACK QTY.	CATALOGUE NUMBER
1 frame kit	174x163x19	6	572.0220

COUPLING INSERT

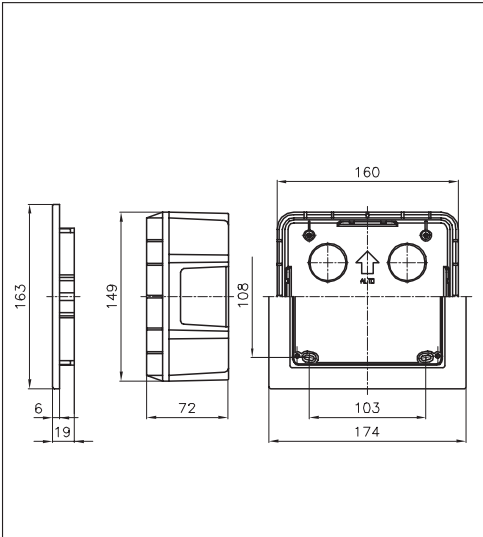
- Necessary for joining OMNIA series flush mounting boxes (cat. no. 572.0200 page 198)
- Made of thermoplastic

DESCRIPTION	PACK QTY.	CATALOGUE NUMBER
Coupling insert	6	572.0210

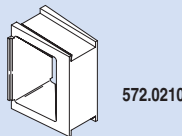
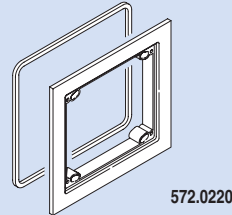
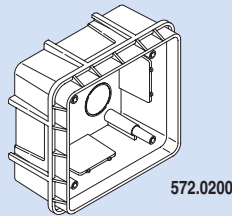
CONSUMER UNIT AND FRAME



FLUSH MOUNTING BOX AND FRAME



(Dimensions in mm)



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COMPONENTS FOR SURFACE
MOUNTING INSTALLATION

SURFACE MOUNTING BOX - IP67*

- For the installation of OMNIA interlocked sockets cat. no. 400 and 405 (16-32A) (pages 246-247), consumer units cat. no. 572.0120 (page 241) or blank plate cat. no. 654.0120 (page 241)

DESCRIPTION	DIMENSIONS (mm)	POWER	CABLE INLET	PACK QTY.	CATALOGUE NUMBER
1 box kit	136x275		METRIC	1	572.M0308
	135x125x70	10W (•)	PG	6	572.0310
			METRIC	6	572.M0310

(*) When assembled together with the relevant component.
(•) When joined with consumer unit (product 572.0120 p. 199). Power calculated conforming to CEI 23-49 standards. Except 32A fuse versions

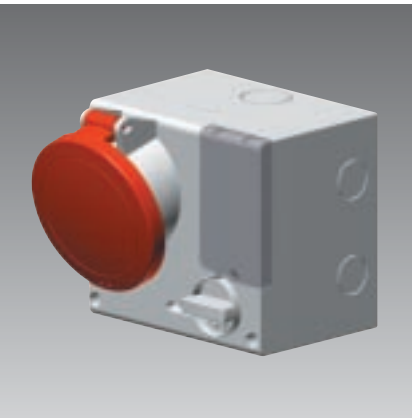
SURFACE MOUNTING SYSTEM

- For the installation of no. 2/3/4 OMNIA interlocked sockets cat. no. 400. and 405 (16-32A). (pages 246-247), cat. no. 401. and 406. (pages 248-249) or blank plate cat. no. 654.0120 (page 241)

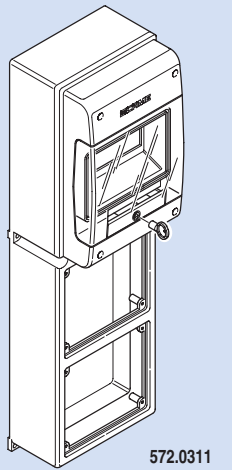
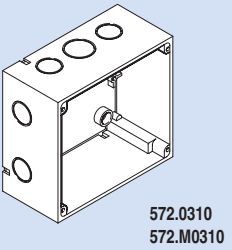
DESCRIPTION	DIMENSIONS (mm)	OMNIA	PACK QTY.	PROTECTION DEGREE*	CATALOGUE NUMBER
"Consumer unit 6 DIN" system	136x472x146	12W (•)	2	IP55	1 572.0311
"Blank plate" system	136x472x146	-	2	IP66	1 572.0312
"Consumer unit 6 DIN" system	136x616x146	12W (•)	3	IP55	1 572.0313
"Blank plate" system	136x616x146	-	3	IP66	1 572.0314
"Blank plate" system	287x408x146	-	4	IP66	1 572.0316

(*) When assembled together with relevant component
(•) Power calculated conforming to CEI 23-49 standards

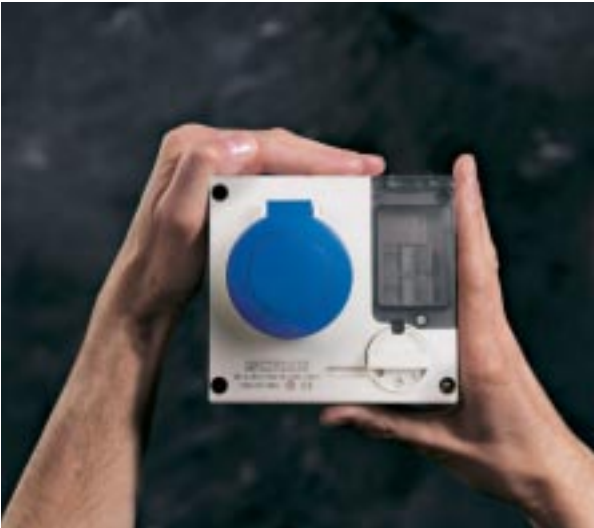
572.0311	572.0312	572.0313	572.0314	572.0316



OMNIA Series
Interlocked-switch socket outlet
with fuse carrier.
Flush mounting version.



OMNIA SERIES - IP67
INTERLOCKED-SWITCH SOCKET OUTLETS



OMNIA Series, in surface mounting and flush mounting versions without protective devices, is designed for industrial use and could also be used commercially with its attractive appearance and reduced size.

VERSIONS AVAILABLE

- Surface mounting
- Flush mounting and panel mounting
- Without fuse holder
- Rated voltage: up to 690V ~
- Rated current: 16A and 32A
- Protection degree: P44 and IP67

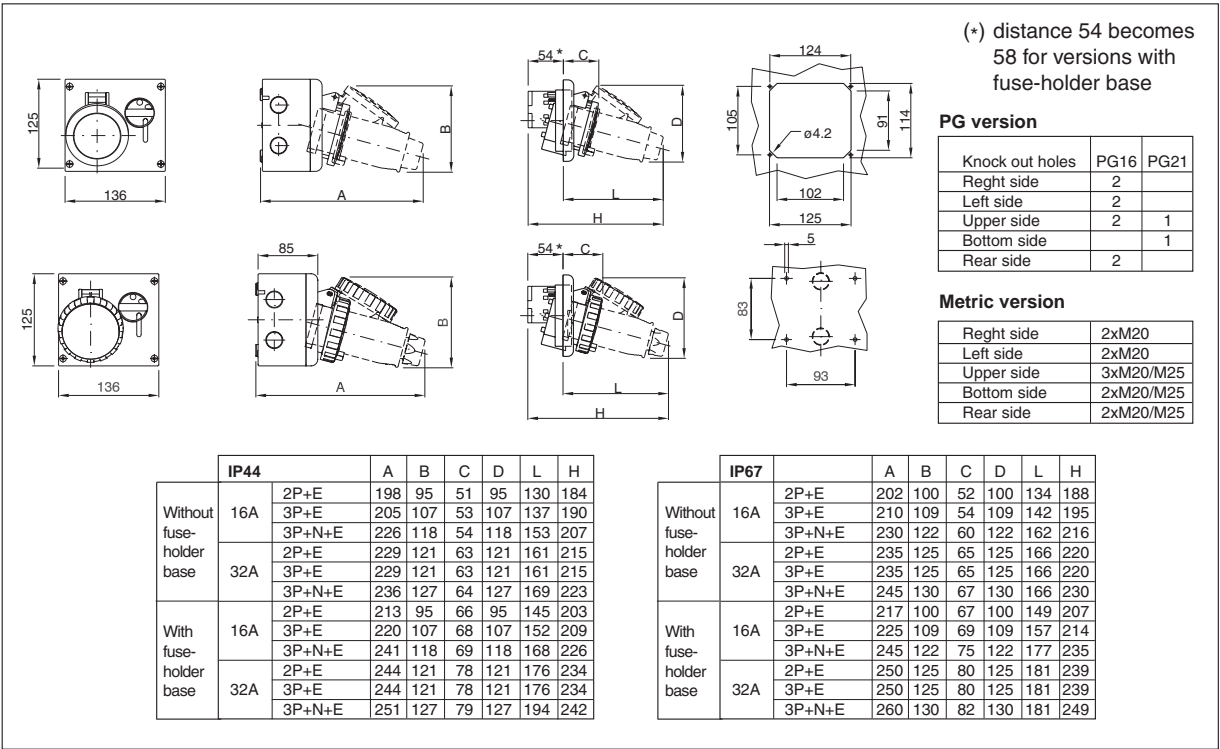
STRUCTURAL CHARACTERISTICS

- Overall dimensions are the same for both 16A and 32A versions
- Surface mounting version can be installed in the modular base (module 136) of the ADVANCE System (pages 254-255)
- Flush mounting version with box of 70 mm depth, including frame to hide imperfections in the plastering
- Panel mounting version can be installed in DOMINO System enclosures (page 118)
- On the back of the base of the surface mounting socket are bosses for fixing to the panel
- There are knockouts for cable inlet in the base and in the following dimensions:
Upper surface: 1 PG21 Ø29 and 2 PG16 Ø23
Lower surface: 1 PG21 Ø29
Side surfaces: 2 PG16 Ø23
Back surface: 2 PG16 Ø23
- Possibility to block the switch in closed and open position
- Mechanical interlock that prevents the switch from closing if the plug is not inserted, the extraction of the plug if the switch is closed and the opening of the socket outlet cover if the switch is closed.

Accessory for panel mounting, a special covering that can be fixed with 2 screws and ensures protection degree IP20 for the back part of the installation.

OMNIA Series can be incorporated into:

- OMNIA System (page 236)
- ADVANCE System, module 136 (page 254)
- ADVANCE 2 System, module 136 (page 272)
- DOMINO System (from page 118)



(Dimensions in mm)



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ELECTRICALLY INTERLOCKED VERSION
Extra low voltage <50V

Reference standards: IEC 60309-1 and -2

- With electrical interlock that works on the transformer primary, or if well connected, can activate relay and contactors.

- Approvals: from page 535
- Systems: OMNIA (page 236)

PANEL MOUNTING

DESCRIPTION	SOCKET	COLOUR	h	RATED VOLTAGE	PACK QTY.	IP44 CATALOGUE NUMBER	IP67 CATALOGUE NUMBER
With transformer * (1) 2P-16A			-	20-25V~	6	400.2416	405.2416
	2P-16A		-	20-25V~	6	400.2420	405.2420
Without transformer (2)			12	40-50V~	6	400.2421	405.2421
	2P-32A		-	20-25V~	6	400.2620	405.2620
			12	40-50V~	6	400.2621	405.2621

When the plug is inserted a micro-switch turns on that closes the circuits

*Unsuitable for 572.0310 and 572.M0310 boxes

SURFACE MOUNTING (▲)

DESCRIPTION	SOCKET	COLOUR	h	RATED VOLTAGE	PACK QTY.	IP44 CATALOGUE NUMBER	IP67 CATALOGUE NUMBER
Without transformer (2)	2P-16A		-	20-25V~	6	500.2420	505.2420
			12	40-50V~	6	500.2421	505.2421
	2P-32A		-	20-25V~	6	500.2620	505.2620
			12	40-50V~	6	500.2621	505.2621

When the plug is inserted a micro-switch turns on that closes the circuits

- (▲) The OMNIA Series surface mounting are also available in a Metric cable inlet.
Add M after the first three digits (ex. 500.M2420).

NOTE

In ADVANCE System, use version with PG cable inlet
In ADVANCE2 System, use version with METRIC cable inlet

- (1) SELV Transformer 220/24V~ 150VA (continuous duty).
- (2) The versions without transformer are particularly suitable for installations with centralised extra-low voltage transformer.



**INTERLOCKED-SWITCH
SOCKET OUTLETS**
Rated voltage > 50 V
Reference standard IEC 60309-1 and IEC 60309-2

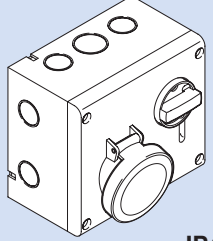
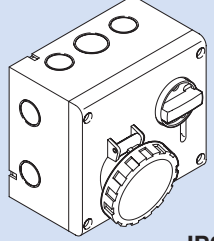
- Without fuse carrier
- Can be padlocked
- Approvals from page 535
- Switches as spare parts page 294

(▲) The OMNIA Series surface mounting are also available in a Metric cable inlet. Add M after the first three digits (ex. 500.M1670).

NOTE
In ADVANCE System, use version with PG cable inlet
In ADVANCE2 System, use version with METRIC cable inlet

Pack qty.				
Poles	Hz	Volt	Colour	h.
2P+E	50/60	100-130		4
	50/60	200-250		6
	50/60	380-415		9
	60	277		5
	50/60	480-500		7
	50/60	is. transf.		12
	>300-500	>50		2
	c.c.	>50-250		3
	c.c.	>250		8
3P+E	50/60	100-130		4
	50/60	200-250		9
	50/60	380-415		6
	60	440-460		11
	50/60	480-500		7
	50/60	600-690		5
	50/60	is. transf.		12
	50 60	380 440		3
	100-300	>50		10
	>300-500	>50		2
3P+N+E	50/60	100-130		4
	50/60	208-250		9
	50/60	346-415		6
	50/60	480-500		7
	50/60	600-690		5
	60	440-460		11
	50 60	380 440		3
	>300-500	>50		2

SURFACE MOUNTING

(▲)		(▲)	
			
IP44		IP67	
16 A	32 A	16 A	32 A
-	-	-	-
6	6	6	6
500.1670	500.3270	505.1670	505.3270
500.1683	500.3283	505.1683	505.3283
500.1678	500.3278	505.1678	505.3278
500.16837	500.32837	505.16837	505.32837
500.16836	500.32836	505.16836	505.32836
500.16833	500.32833	505.16833	505.32833
500.16832	500.32832	505.16832	505.32832
500.16834	500.32834	505.16834	505.32834
500.16838	500.32838	505.16838	505.32838
500.1672	500.3272	505.1672	505.3272
500.1674	500.3274	505.1674	505.3274
500.1686	500.3286	505.1686	505.3286
500.16865	500.32865	505.16865	505.32865
500.16866	500.32866	505.16866	505.32866
500.16867	500.32867	505.16867	505.32867
500.16863	500.32863	505.16863	505.32863
500.16864	500.32864	505.16864	505.32864
500.16861	500.32861	505.16861	505.32861
500.16862	500.32862	505.16862	505.32862
500.1679	500.3279	505.1679	505.3279
500.1675	500.3275	505.1675	505.3275
500.1687	500.3287	505.1687	505.3287
500.16876	500.32876	505.16876	505.32876
500.16877	500.32877	505.16877	505.32877
500.16875	500.32875	505.16875	505.32875
500.16874	500.32874	505.16874	505.32874
500.16872	500.32872	505.16872	505.32872

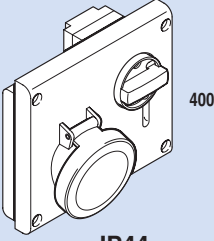
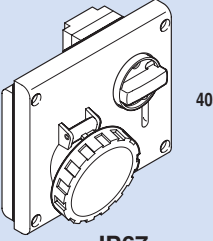
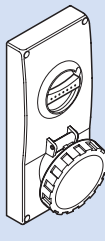
(*) These articles are only available with METRIC cable inlet.



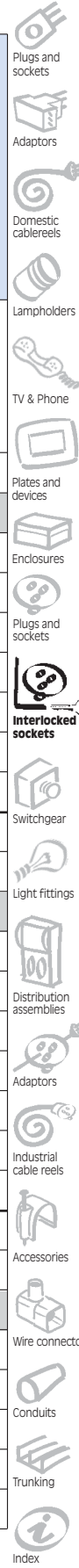
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FLUSH MOUNTING *

(*)					
	IP44		IP67		
63A	16 A	32 A	16 A	32 A	63A
-	-	-	-	-	-
1	6	6	6	6	1
505.M6370	400.1670	400.3270	405.1670	405.3270	405.6370
505.M6383	400.1683	400.3283	405.1683	405.3283	405.6383
505.M6378	400.1678	400.3278	405.1678	405.3278	405.6378
-	400.16837	400.32837	405.16837	405.32837	-
505.M63836	400.16836	400.32836	405.16836	405.32836	405.63836
505.M63833	400.16833	400.32833	405.16833	405.32833	405.63833
-	400.16832	400.32832	405.16832	405.32832	-
-	400.16834	400.32834	405.16834	405.32834	-
-	400.16838	400.32838	405.16838	405.32838	-
505.M6372	400.1672	400.3272	405.1672	405.3272	405.6372
505.M6374	400.1674	400.3274	405.1674	405.3274	405.6374
505.M6386	400.1686	400.3286	405.1686	405.3286	405.6386
505.M63865	400.16865	400.32865	405.16865	405.32865	405.63865
505.M63866	400.16866	400.32866	405.16866	405.32866	405.63866
505.M63867	400.16867	400.32867	405.16867	405.32867	405.63867
-	400.16863	400.32863	405.16863	405.32863	-
-	400.16864	400.32864	405.16864	405.32864	-
-	400.16861	400.32861	405.16861	405.32861	-
-	400.16862	400.32862	405.16862	405.32862	-
505.M6379	400.1679	400.3279	405.1679	405.3279	405.6379
505.M6375	400.1675	400.3275	405.1675	405.3275	405.6375
505.M6387	400.1687	400.3287	405.1687	405.3287	405.6387
505.M63876	400.16876	400.32876	405.16876	405.32876	405.63876
505.M63877	400.16877	400.32877	405.16877	405.32877	405.63877
505.M63875	400.16875	400.32875	405.16875	405.32875	405.63875
-	400.16874	400.32874	405.16874	405.32874	-
-	400.16872	400.32872	405.16872	405.32872	-

(*) Supplied with stainless steel fixing screws



**INTERLOCKED-SWITCH
SOCKET OUTLETS**
Rated voltage > 50 V
Reference standard IEC 60309-1 and IEC 60309-2

- With fuse carrier
- Can be padlocked
- Approvals from page 535
- Switches as spare parts page 294

(▲) The OMNIA Series surface mounting are also available in a Metric cable inlet. Add M after the first three digits (ex. 501.M1670).

NOTE
In ADVANCE System, use version with PG cable inlet
In ADVANCE2 System, use version with METRIC cable inlet

Pack qty.								
Poles	Hz	Volt	Colour	h.				
2P+E	50/60	100-130		4	501.1670	501.M3270 #	506.1670	506.M3270 #
	50/60	200-250		6	501.1683	501.M3283 #	506.1683	506.M3283 #
	50/60	380-415		9	501.1678	501.M3278 #	506.1678	506.M3278 #
	60	277		5	501.16837		506.16837	
	50/60	480-500		7	501.16836		506.16836	
	50/60	is. transf.		12	501.16833		506.16833	
	>300-500	>50		2	501.16832		506.16832	
	c.c.	>50-250		3	501.16834		506.16834	
	c.c.	>250		8	501.16838		506.16838	
3P+E	50/60	100-130		4	501.1672	501.M3272 #	506.1672	506.M3272 #
	50/60	200-250		9	501.1674	501.M3274 #	506.1674	506.M3274 #
	50/60	380-415		6	501.1686	501.M3286 #	506.1686	506.M3286 #
	60	440-460		11	501.16865		506.16865	
	50/60	480-500		7	501.16866		506.16866	
	50/60	600-690		5	501.16867		506.16867	
	50/60	is. transf.		12	501.16863		506.16863	
	50/60	380/440		3	501.16864		506.16864	
	100-300	>50		10	501.16861		506.16861	
	>300-500	>50		2	501.16862		506.16862	
3P+N+E	50/60	100-130		4	501.1679	501.M3279 #	506.1679	506.M3279 #
	50/60	208-250		9	501.1675	501.M3275 #	506.1675	506.M3275 #
	50/60	346-415		6	501.1687	501.M3287 #	506.1687	506.M3287 #
	50/60	480-500		7	501.16876		506.16876	
	50/60	600-690		5	501.16877		506.16877	
	60	440-460		11	501.16875		506.16875	
	50/60	380/440		3	501.16874		506.16874	
	>300-500	>50		2	501.16872		506.16872	

SURFACE MOUNTING (▲)

IP44		IP67	
16 A	32 A	16 A	32 A
-	-	-	-
6	6	6	6
501.1670	501.M3270 #	506.1670	506.M3270 #
501.1683	501.M3283 #	506.1683	506.M3283 #
501.1678	501.M3278 #	506.1678	506.M3278 #
501.16837		506.16837	
501.16836		506.16836	
501.16833		506.16833	
501.16832		506.16832	
501.16834		506.16834	
501.16838		506.16838	
501.1672	501.M3272 #	506.1672	506.M3272 #
501.1674	501.M3274 #	506.1674	506.M3274 #
501.1686	501.M3286 #	506.1686	506.M3286 #
501.16865		506.16865	
501.16866		506.16866	
501.16867		506.16867	
501.16863		506.16863	
501.16864		506.16864	
501.16861		506.16861	
501.16862		506.16862	
501.1679	501.M3279 #	506.1679	506.M3279 #
501.1675	501.M3275 #	506.1675	506.M3275 #
501.1687	501.M3287 #	506.1687	506.M3287 #
501.16876		506.16876	
501.16877		506.16877	
501.16875		506.16875	
501.16874		506.16874	
501.16872		506.16872	

(#) These articles are only available with METRIC cable inlet and raised enclosure

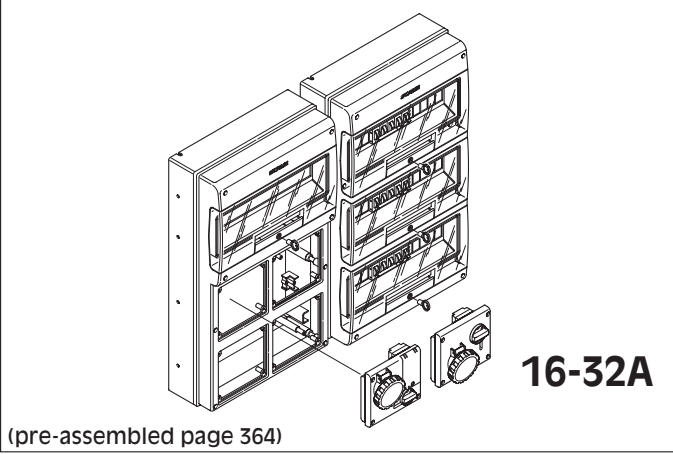
FLUSH MOUNTING*

IP44		IP67	
16 A	32 A	16 A	32 A
-	-	-	-
6	6	6	6
401.1670	401.3270	406.1670	406.3270
401.1683	401.3283	406.1683	406.3283
401.1678	401.3278	406.1678	406.3278
401.16837		406.16837	
401.16836		406.16836	
401.16833		406.16833	
401.16832		406.16832	
401.16834		406.16834	
401.16838		406.16838	
401.1672	401.3272	406.1672	406.3272
401.1674	401.3274	406.1674	406.3274
401.1686	401.3286	406.1686	406.3286
401.16865		406.16865	
401.16866		406.16866	
401.16867		406.16867	
401.16863		406.16863	
401.16864		406.16864	
401.16861		406.16861	
401.16862		406.16862	
401.1679	401.3279	406.1679	406.3279
401.1675	401.3275	406.1675	406.3275
401.1687	401.3287	406.1687	406.3287
401.16876		406.16876	
401.16877		406.16877	
401.16875		406.16875	
401.16874		406.16874	
401.16872		406.16872	

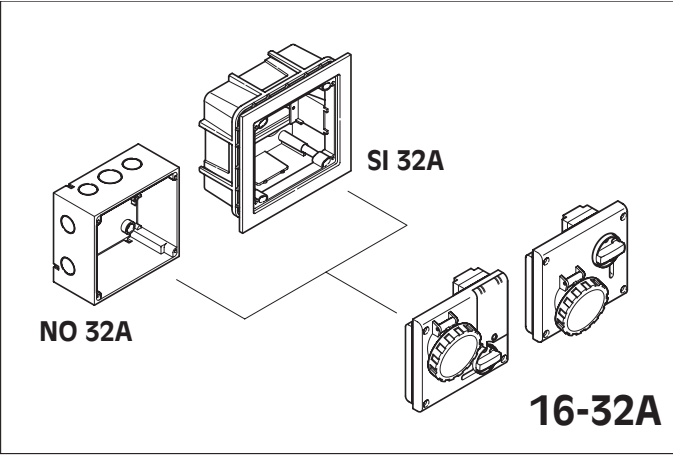
(*) Supplied with stainless steel fixing screws

OMNIA SERIES
The heart of SCAME's systems

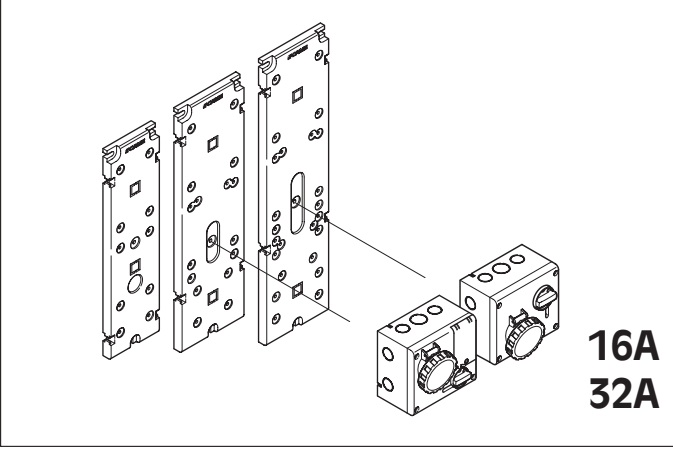
DOMINO System (from page 118)



OMNIA System (from page 236)

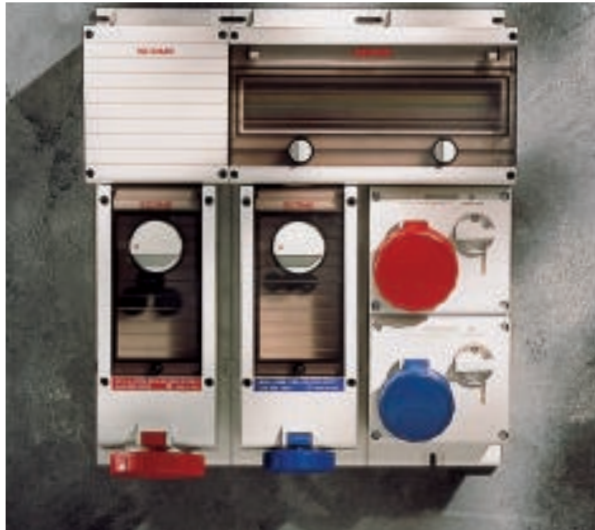


ADVANCE System (from page 250) - PG cable inlet
ADVANCE 2 System (from page 274) - METRIC cable inlet



- Plugs and sockets
- Adaptors
- Domestic cable reels
- Lampholders
- TV & Phone
- Plates and devices
- Enclosures
- Plugs and sockets
- Interlocked sockets
- Switchgear
- Light fittings
- Distribution assemblies
- Adaptors
- Industrial cable reels
- Accessories
- Wire connectors
- Conduits
- Trunking
- Index

ADVANCE SYSTEM IP66
MODULAR SYSTEM FOR COMBINATION UNITS



This System covers the full range of industrial installation requirements, from light to heavy duty. It includes modular bases, junction boxes and consumer units capable of housing:

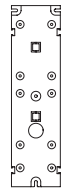

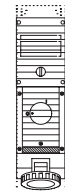
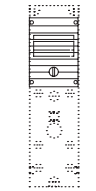
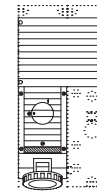
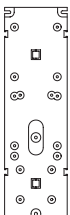
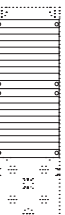
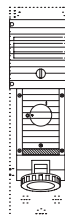
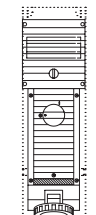
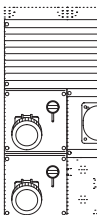
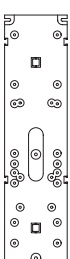
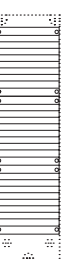
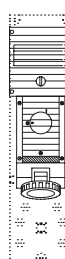
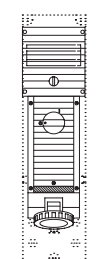
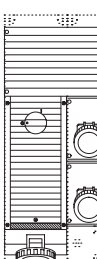
Interlocked-switch socket outlets
ADVANCE Series
H.D. ADVANCE Series
For 16 A, 32 A and 63 A currents
Protection degree IP44 or IP66
With and without protective devices
(fuses or circuit breakers).

Interlocked-switch socket outlets
OMNIA surface-mounting Series

For 16A or 32A currents
Protection degree IP44 or IP67
Without protective devices
Interlocked-switch socket outlets
QUADRA Series socket outlets
For 16 and 32 A currents
Protection degree IP44 or IP66
Without protection devices
Panel mounting socket outlets for industrial applications
IEC309 and EUREKA Series
For 16 A and 32 A currents
Protection degree IP44 or IP67
Socket outlets for domestic applications
Panel-mounting series
For 16 A currents
Protection degree IP44

VERSIONS
The whole ADVANCE system is based on two modules in two standard widths - 106 and 136 mm:
- MODULE 106, defined here as "compact"
- MODULE 136, defined here as "standard"
Module 136 is also available in the "Heavy Duty"(HD) version: a product with high mechanical strength and resistance to chemicals, designed for heavy duty as described further on.

The ADVANCE System includes:
- 3 modular supports measuring:
106 x 394 (compact)
136 x 459 (standard)
136 x 539 (universal)
coupled by means of captive press-fit inserts.
- Junction boxes and consumer units in modular widths - 106 - 136 mm, with fastening screws for mounting on the support, couplers with seals and PG21 nuts.

		JUNCTION BOXES	WITH ADVANCE COMPACT	WITH ADVANCE NORMAL	DIFFERENT COMBINATIONS WITH ADVANCE AND OMNIA SOCKET OUTLETS	
MODULE 106	COMPACT	 Code 576.3300				
	NORMAL	 Code 576.3320				
MODULE 136	UNIVERSAL	 Code 576.3340				

ADVANCE System: Some possible combination units with ADVANCE Series and OMNIA Series components.



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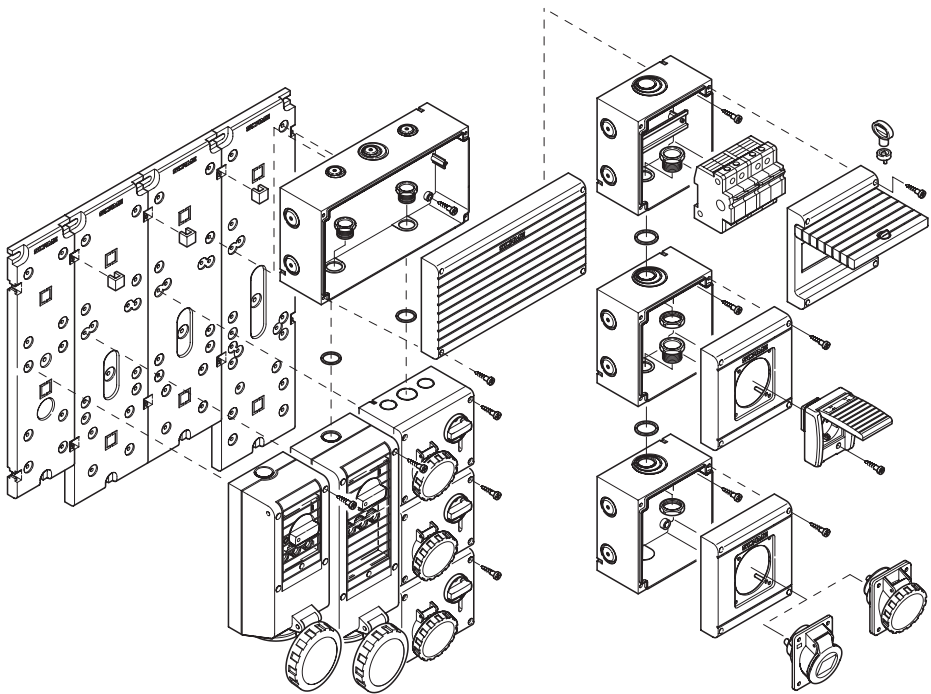


STRUCTURAL CHARACTERISTICS

The boxes are provided on all sides with knock-out holes for PG21, PG29 and PG36 and are available in the following versions:
- one-module blank
- two-module blank
- one-module with tinted window
- two-module with tinted window
- one-module with cutouts
(with provision for mounting 16 A and 32 A IEC309 Series flush-mounting socket outlets and socket outlets for domestic applications).

The box with tinted window is provided with rail for 4, 6, 10 and 13 DIN modules (17.5 mm), suitable for holding 53, 68 and 90-mm high modular devices.
The closing knob can be replaced with a triangular lock.

All fastening screws are made of stainless steel and have quick-action screws. The system components can be coupled using couplers size PG21 which ensure protection degree IP66.



Modular support: coupling together is by means of special captive press-fit inserts.

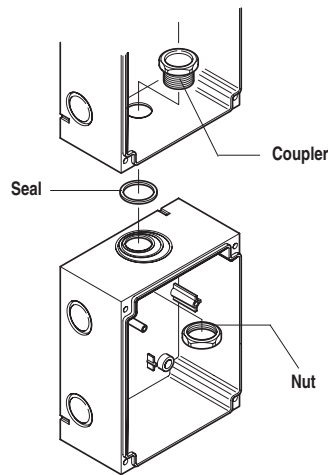


Self-centring: the supports and the boxes are designed in such a way that each component can be positioned accurately.



TECHNICAL CHARACTERISTICS

- Protection degree IP66 to IEC 60529 and EN 60529.
- Made of halogen-free self-extinguishing thermoplastic material. RAL 7035 grey, abnormal heat and fire resistant up to 650 °C (glow-wire test to IEC 695-2-1).
- Seals made of non-ageing elastomer.
- Dimensional stability in continuous operation from -25 °C to +60 °C.
- Impact resistance: 6 Joule
- Resistance to chemicals (water, saline solutions, acids, alkaline, mineral oils) and weathering.
- Reference standards IEC 60670.



Knock-outs: Numerous accessories are available for connecting flexible or rigid conduit to the ADVANCE System enclosures (Section 4.3, from page 433 onwards)



Cutouts: SCAME boxes with cutouts accept 16A IEC309 or EUREKA Series panel mounting socket outlets (70x87 mm flange) with IP44 and IP67, and socket outlets for domestic applications (section 2.2).



Knock-out cable entries: the required size can be knocked out using a screwdriver and hammer, making installation easier



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HD - HEAVY DUTY PRODUCTS

This designation refers to a series of SCAME products made of special polymer alloys, the result of lengthy research and testing both in the laboratory and in the field.

The HD SCAME products are:

- **HD ADVANCE System**, weatherproof boxes and bases for combination units.
- **HD ADVANCE Series**, weatherproof interlocked-switch socket outlets with fuse carrier or DIN rail 16 to 63 A.



The materials used have excellent resistance to ambient conditions such as humidity, steam, saline or acid fumes. The performance of the products is therefore unaffected and remains unchanged over time.

HD ADVANCE System

It consists of the same boxes as the ADVANCE System, except that the HD version is of a special polymer alloy which provides considerable resistance to environmental conditions.

All the screws are made of stainless steel.
The windows of the housing for the sockets are not clear, but of the same material as the box.
The colour of the base and the cover is RAL 7004 grey.
The protection degree is IP66.
The knob of the window can be replaced with a lock and key, supplied in the accessories kit of each article.
The kit also includes cable glands and couplers, insulating caps to provide double insulation and screws for closing down and fastening onto the base.

FIELDS OF APPLICATION

The products of the HD ADVANCE System can be used safely and reliably in the following fields:

- Heavy mechanical industry (rolling mills, furnaces, mines or steelworks)
- Chemical and petrochemical industry (oil refineries, waste disposal plants, transforming plants, off-shore platforms) not for use in "explosive atmospheres"
- Food industry
- Ports and docks
- Agricultural applications
- Airports

The ambient conditions for the use of these products are:

- Ambient temperature : -40°C +100°C
- Relative humidity : up to 100%
- Ambient salinity : 5% NaCl 90% U.R.
- Impact resistance : +20°C : >40J
-40°C : >20J

CHARACTERISTICS OF THE HD MATERIAL:

The chemical and physical characteristics of the material used for HEAVY DUTY boxes are listed as well as relevant reference standards and the chemical compounds they guarantee protection from.

CHARACTERISTIC	VALUE	STANDARD
Load deformation temperature	100°C	ISO 75Be
Flexural stress	1850 MPa	ISO 178
IZOD Impact test	50 kJ/m ²	ISO 180 1/A
Dielectric rigidity	18kV/mm	IEC 60 243 - ASTM D149
Self-extinguishing properties (glow-wire)	850°C	IEC 60 695-2-1
Self-extinguishing (UL 94)	HB (1,6 mm) V1 (3,00 mm)	UL 94
Cold impact -40°C (on thicknesses > 2mm)	>20J	NFC 20010

Excellent stability to the following chemical compounds:

Acids: 10% hydrochloric acid, 30% sulphuric acid, 10% acetic acid.
Alkaline: 10% sodium hydroxide (caustic soda), 10% potassium hydroxide.
Organic solvents: ethyl alcohol, isopropyl alcohol, ethylene glycol.
Oils and fuels for motor-vehicles: engine, brake, gear oil; 2-star petrol, 4-star petrol, leadfree petrol.
Salts: 5% sodium chloride, 10% zinc chloride, 10% calcium chloride.

The following compounds should be avoided:

Organic solvents: acetone, methylene chloride, ethyl acetate.
Alkaline: 10% ammonium hydroxide.



NOTE
The ADVANCE Systems is made up of ADVANCE 2
System (page 272-273)
The modular compatibility is unchanged

MODULAR SYSTEM FOR
COMBINATION UNITS - IP66
Surface mounting

Reference standard: IEC 60670 e CEI 23-48 (Italian standard)
• Dimensions : see pages 256-257
• Accessories : from page 158
cover sealing kit (made up of 2 special
screws, 2 sealed caps, 2 seals and strip of
wire - art. 654.0032 / 25 pcs)


Note: The enclosures are supplied with screws for fastening the lid and
mounting to the boxes; the kit also includes PG21 coupler, seals and nuts.
In order to carry out precise performance for PG shunt boxes, we recommend
the use of stepped milling cutter as in cat.no. 0694016129 WÜRTH or similar.


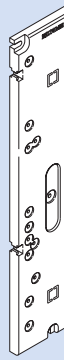
ADVANCE 106



- Combines with:
ADVANCE Series compact (pages 260-261)

MODULE 106 - COMPACT

MODULAR BASES
Complete with inserts for joining several bases

	16A	
PACK QTY.	CATALOGUE NUMBER	
12	576.3300	

	16A 32A		16A 32A 63A
1 ADVANCE 1 QUADRA 3 OMNIA		1 ADVANCE 2 QUADRA 2 OMNIA	
STANDARD		UNIVERSAL	
PACK QTY.	CAT. NUMBER	PACK QTY.	CAT. NUMBER
12	576.3320	12	576.3340

	16A 32A		16A 32A 63A
HD STANDARD		HD UNIVERSAL	
PACK QTY.	CAT. NUMBER	PACK QTY.	CAT. NUMBER
12	578.3320	6	578.3340

ADVANCE 136 - HD

- Combines with:
ADVANCE Series HD (pages 264-265)

MODULE 136 - HEAVY DUTY

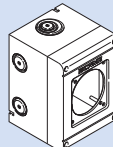
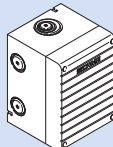
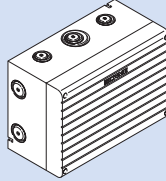
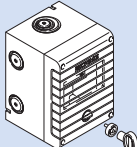
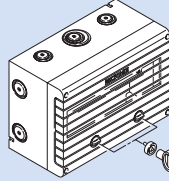
The Heavy Duty products are suited to heavy working conditions and are also resistant to highly salty environments.

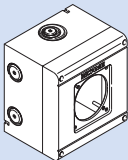
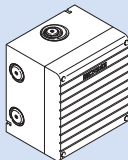
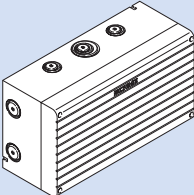
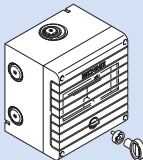
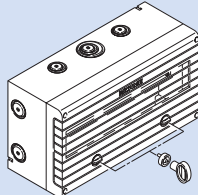


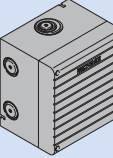
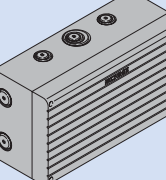
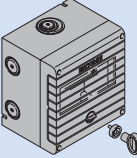
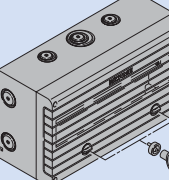
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ENCLOSURES - IP66
One-module with cut out One-module plain lid Two-modules plain lid One-module with window Two-modules with window

						 Power dissipation (°) 8W		 Power dissipation (°) 14W	
FLANGE 70x87						4 DIN		10 DIN	
PACK QTY.	CATALOGUE NUMBER	PACK QTY.	CATALOGUE NUMBER	PACK QTY.	CATALOGUE NUMBER	PACK QTY.	CATALOGUE NUMBER	PACK QTY.	CATALOGUE NUMBER
12	🔗 576.3303	12	🔗 576.3301	6	🔗 576.3304	6	🔗 576.3302	6	🔗 576.3305

						 Power dissipation (°) 9W		 Power dissipation (°) 17W	
FLANGE 70x87						6 DIN		13 DIN	
PACK QTY.	CATALOGUE NUMBER	PACK QTY.	CATALOGUE NUMBER	PACK QTY.	CATALOGUE NUMBER	PACK QTY.	CATALOGUE NUMBER	PACK QTY.	CATALOGUE NUMBER
12	🔗 576.3323	12	🔗 576.3321	6	🔗 576.3324	6	🔗 576.3322	6	🔗 576.3325

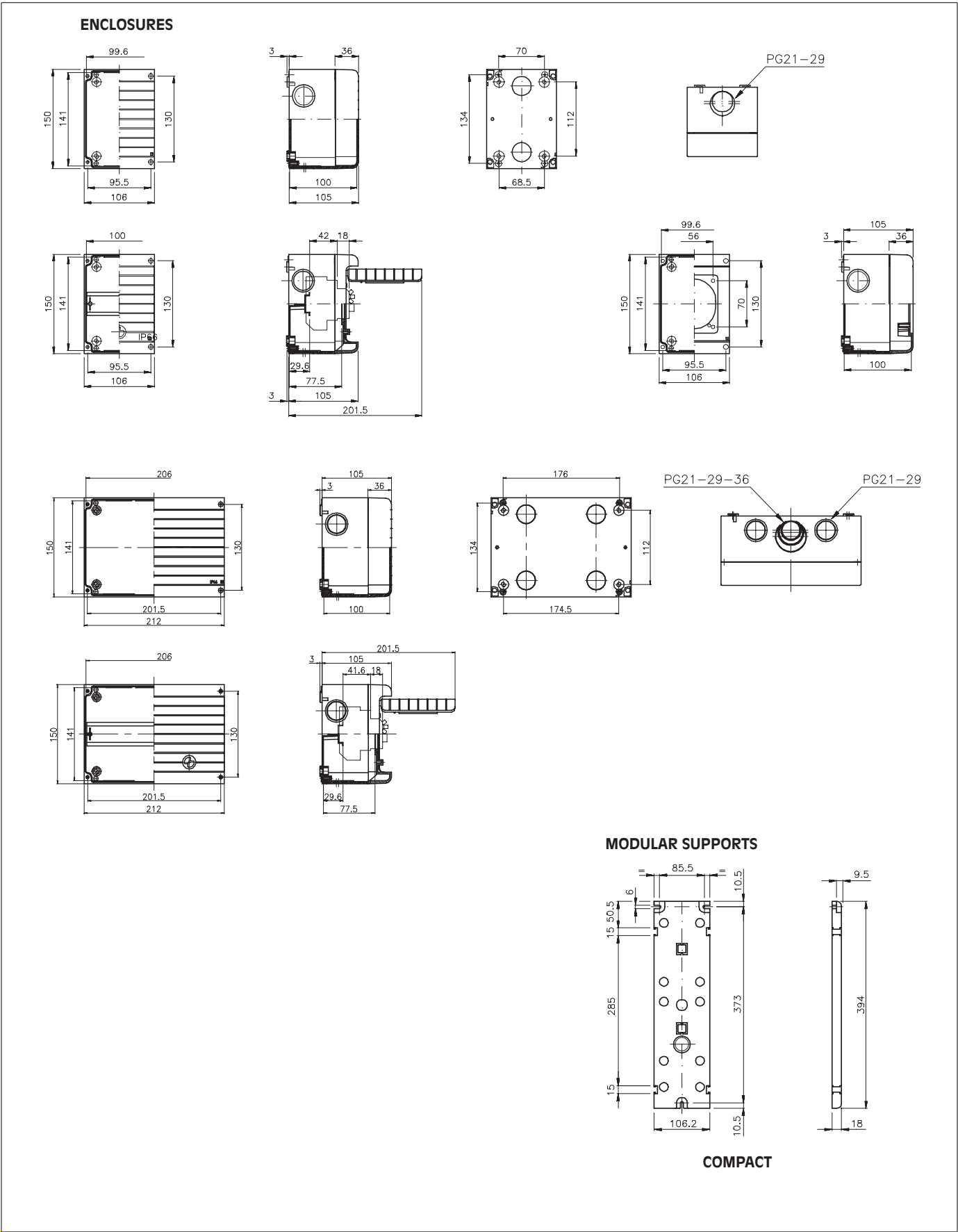
			 Power dissipation (°) 9W 6 DIN	 Power dissipation (°) 17W 13 DIN				
	PACK QTY.	CATALOGUE NUMBER	PACK QTY.	CATALOGUE NUMBER	PACK QTY.	CATALOGUE NUMBER	PACK QTY.	CATALOGUE NUMBER
	12	🔗 578.3321	6	🔗 578.3324	6	🔗 578.3322	6	🔗 578.3325

(°) Power calculated according to CEI 23-49 (Italian standard)



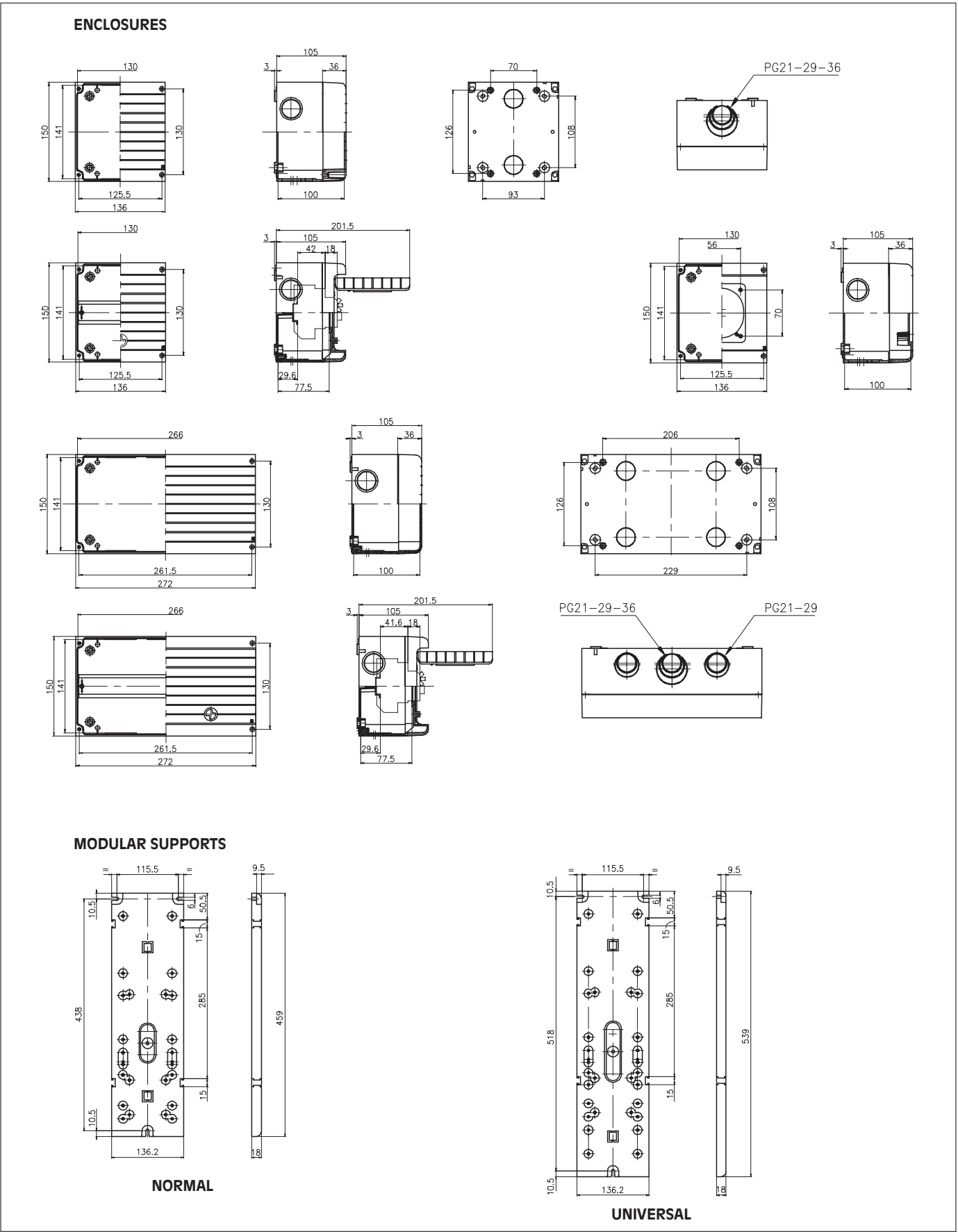


ADVANCE MODULE 106



(Dimensions in mm)

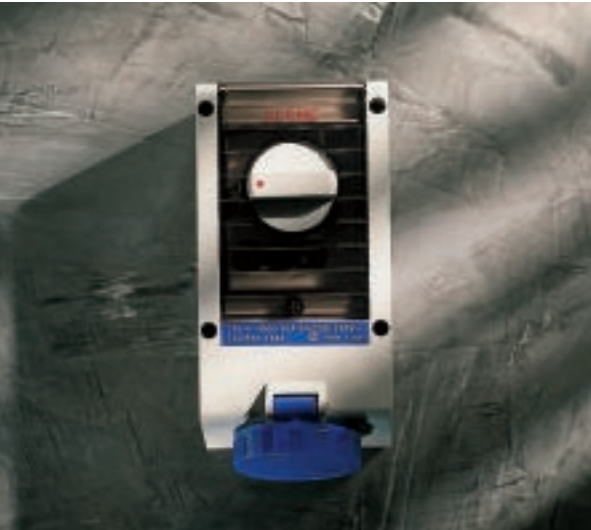
ADVANCE MODULE 136



(Dimensions in mm)

- Plugs and sockets
- Adaptors
- Domestic cable reels
- Lampholders
- TV & Phone
- Plates and devices
- Enclosures
- Plugs and sockets
- Interlocked sockets
- Switchgear
- Light fittings
- Distribution assemblies
- Adaptors
- Industrial cable reels
- Accessories
- Wire connectors
- Conduits
- Trunking
- Index

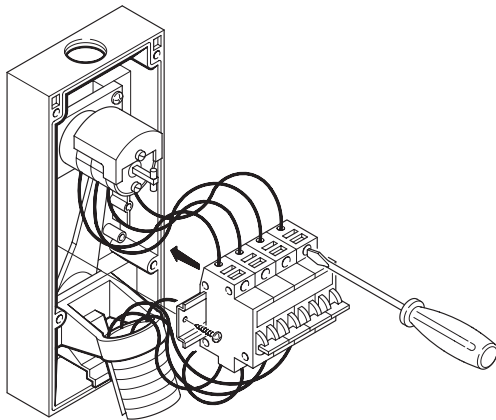
ADVANCE SERIES
INTERLOCKED-SWITCH SOCKET OUTLETS



Designed mainly for industrial applications, the **ADVANCE Series** comes in three versions, compact, standard and heavy duty.

INTERLOCKED-SWITCH SOCKET OUTLETS
Mechanical interlock

SCAME **Advance Series** interlocked-switch socket outlets from 16A to 63A have a mechanical interlocking device that prevents: the switch from closing if the plug is not inserted, the extraction of the plug if the switch is closed and opening the socket outlet cover if the switch is closed.



ADVANCE Series with DIN rail:
Interlocking-switch socket outlet: designed for mounting protection devices onto an EN 50022 (4 DIN modules) rail.

TYPES AVAILABLE

- For surface mounting
 - Rated voltage: 690V~
 - Rated current: 16A, 32A, 63A and 125A
 - Protection degree: IP44, IP66 and IP67
- Module 106 - compact**
- With fuse carrier
 - Without fuse carrier
- Module 136 - normal**
- With fuse carrier
 - Without fuse carrier
 - With EN 50022 rail (4 DIN modules 17.5mm)
 - With and without safety transformer SELV 24V~ 150VA
- Module 136 - Heavy Duty**
- With fuse carrier
 - With EN 50022 rail (4 DIN modules 17.5mm)
 - With and without safety transformer SELV 24V~ 150VA

Electrical interlock

SCAME's **ADVANCE Series** 125A interlocked-switch socket outlets are provided with an electrical interlock which prevents the switch from closing if the plug is not inserted and the extraction of the plug if the switch is closed.

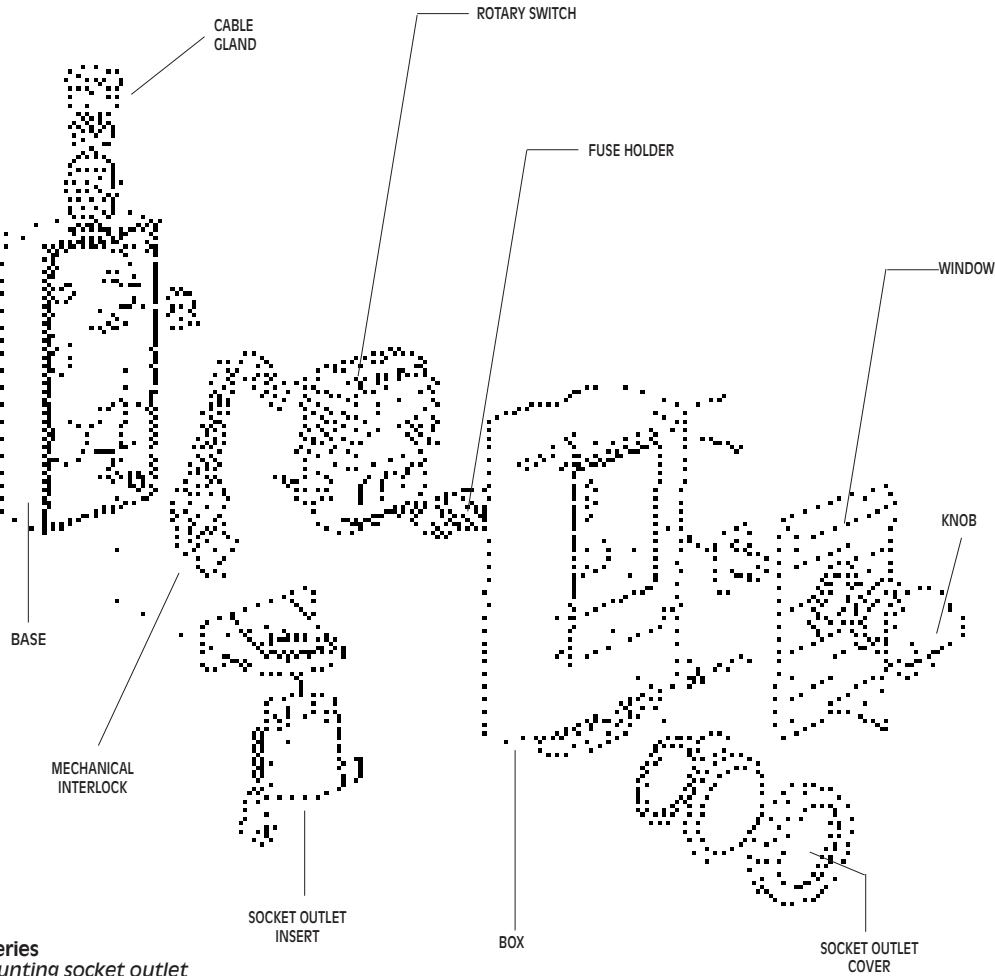
SCAME's **ADVANCE Series** interlocked-switch socket outlets with rated voltage 50V (SELV) are provided with an electrical interlock which is operated by the plug, inserting the plug closes the supply circuit. This prevents the insertion or extraction of the plug while the socket is power supplied.



ADVANCE Series: mechanical interlock device.

STRUCTURAL CHARACTERISTICS

- **Interlock:**
mechanical for 16A, 32A and 63A rated currents
electrical for 125A rated currents
electrical for socket outlets with/without transformers <50V
- **Systems:** the socket outlets can be mounted on ADVANCE System modular bases, module 106 and 136 (section 2.1) and MASTERBOX assemblies (section 3.1)
- The **HEAVY DUTY** version has the same interlocked-switch socket outlets as the **ADVANCE Series**, but with enclosures made of a special polymer compound with considerable mechanical and chemical resistance to outside agents.
- The **ADVANCE 125A** version has electrical interlock and MCB or RCD protection devices (the interlock is obtained by means of an undervoltage relay fitted in the circuit breaker and supplied via the pilot contact of the plug).
- **Cable gland (supplied):**
PG21 for 16A and 32A
PG29 for 63A
PG48 for 125A
- **Fuse-carriers:**
gL 10.3x38 for 16A and 32A
gL 14x51 for 32A
E33 and Neozed D02 for 63A (fuses not supplied)
- **Window:**
tinted, for fuses or breaker inspection.
The window opens only when the interlocking switch is in open position.
- **Cable inlets:**
ADVANCE 16A compact:
1 PG21 upper part (threaded)
2 PG13.5 lower part (knock-out)
ADVANCE 16-32A normal:
1 PG21 upper part (threaded)
2 PG13.5 lower part (knock-out)
ADVANCE 63A:
1 PG29 upper part (threaded)
2 PG21 lower part (knock-out)
ADVANCE 125A:
1 PG48 upper part with hole



ADVANCE Series
Surface mounting socket outlet with mechanical interlock.



ADVANCE Series

NOTE
The ADVANCE Series is made up of ADVANCE 2
Series (from page 274)
The modular compatibility is unchanged

COMPACT VERSION
INTERLOCKED-SWITCH SOCKET OUTLETS

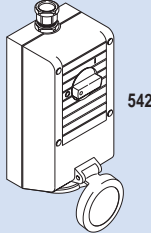
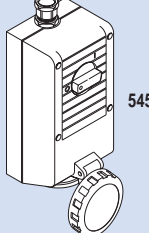
Surface mounting - Rated operating voltage >50 V

Reference standards: IEC 60309-1 and IEC 60309-2

- Approvals: from page 535
- Systems: ADVANCE 106 - 136 (from page 254)
- Switches: page 294

Cable Gland: Pack qty.:				
Poles	Hz	V	Colour	h
2P+E	50/60	100-130		4
	50/60	200-250		6
	50/60	380-415		9
	60	277		5
	50/60	480-500		7
	50/60	is. transf.		12
	>300-500	>50		2
	c.c.	>50-250		3
	c.c.	>250		8
3P+E	50/60	100-130		4
	50/60	200-250		9
	50/60	380-415		6
	60	440-460		11
	50/60	480-500		7
	50/60	600-690		5
	50/60	is. transf.		12
	50 60	380 440		3
	100-300	>50		10
	>300-500	>50		2
3P+N+E	50/60	100-130		4
	50/60	208-250		9
	50/60	346-415		6
	50/60	480-500		7
	50/60	600-690		5
	60	440-460		11
	50 60	380 440		3
	>300-500	>50		2

WITHOUT FUSE CARRIER - COMPACT

 IP44	 IP66
16 A PG21 1/12	16 A PG21 1/12
542.1670	545.1670
542.1683	545.1683
542.1678	545.1678
542.16837	545.16837
542.16836	545.16836
542.16833	545.16833
542.16832	545.16832
542.16834	545.16834
542.16838	545.16838
542.1672	545.1672
542.1674	545.1674
542.1686	545.1686
542.16865	545.16865
542.16866	545.16866
542.16867	545.16867
542.16863	545.16863
542.16864	545.16864
542.16861	545.16861
542.16862	545.16862
542.1679	545.1679
542.1675	545.1675
542.1687	545.1687
542.16876	545.16876
542.16877	545.16877
542.16875	545.16875
542.16874	545.16874
542.16872	545.16872

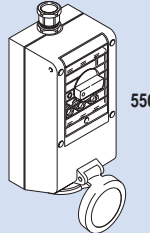
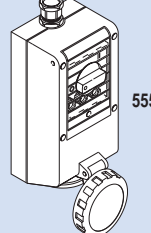


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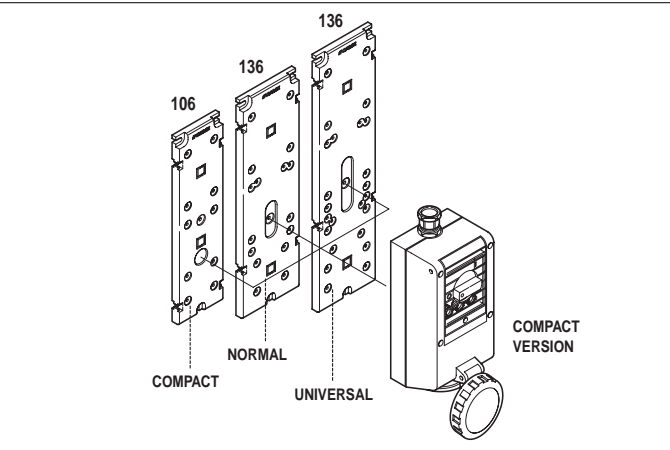


2.3

WITH FUSE CARRIER - COMPACT

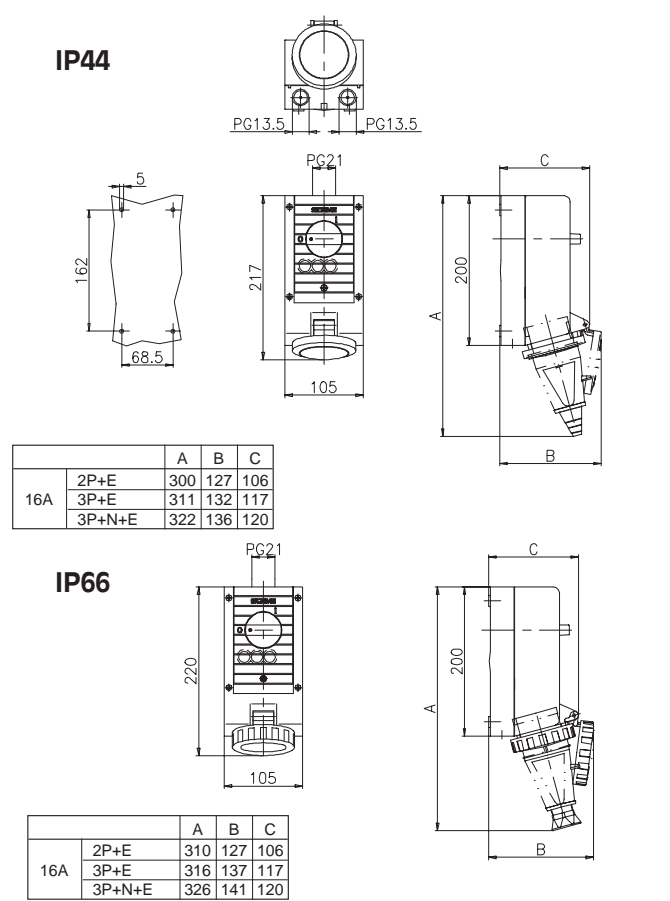
 IP44	 IP66
16 A PG21 1/12	16 A PG21 1/12
550.1670	555.1670
550.1683	555.1683
550.1678	555.1678
550.16837	555.16837
550.16836	555.16836
550.16833	555.16833
550.16832	555.16832
550.16834	555.16834
550.16838	555.16838
550.1672	555.1672
550.1674	555.1674
550.1686	555.1686
550.16865	555.16865
550.16866	555.16866
550.16867	555.16867
550.16863	555.16863
550.16864	555.16864
550.16861	555.16861
550.16862	555.16862
550.1679	555.1679
550.1675	555.1675
550.1687	555.1687
550.16876	555.16876
550.16877	555.16877
550.16875	555.16875
550.16874	555.16874
550.16872	555.16872

ADVANCE System (page 250)



ADVANCE Series interlocked-switch socket outlets: The COMPACT version can be installed in all the modular bases of the ADVANCE (compact, normal, universal) system.

ADVANCE SERIES COMPACT 16 A



- Plugs and sockets
- Adaptors
- Domestic cable reels
- Lampholders
- TV & Phone
- Plates and devices
- Enclosures
- Plugs and sockets
- Interlocked sockets
- Switchgear
- Light fittings
- Distribution assemblies
- Adaptors
- Industrial cable reels
- Accessories
- Wire connectors
- Conduits
- Trunking
- Index

Fuses: gG 10,3x38

(Dimensions in mm)

ADVANCE Series

NOTE
The ADVANCE Series is made up of ADVANCE 2
Series (from page 274)
The modular compatibility is unchanged



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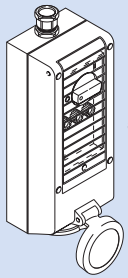
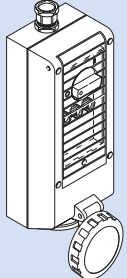


NORMAL VERSION
INTERLOCKED-SWITCH SOCKET OUTLETS

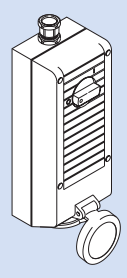
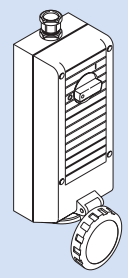
Surface mounting
Rated operating voltage >50 V
Reference standard: IEC 60309-1 and 60309-2
• Dimensions: see page 275
• Approvals: from page 535
• Systems: ADVANCE 136 (from page 254)
• Switches: page 294

Cable Gland: Pack qty.:				
Poles	Hz	V	Colour	h
2P+E	50/60	100-130		4
	50/60	200-250		6
	50/60	380-415		9
	60	277		5
	50/60	480-500		7
	50/60	is. transf.		12
	>300-500	>50		2
	c.c.	>50-250		3
	c.c.	>250		8
3P+E	50/60	100-130		4
	50/60	200-250		9
	50/60	380-415		6
	60	440-460		11
	50/60	480-500		7
	50/60	600-690		5
	50/60	is. transf.		12
	50 60	380 440		3
	100-300	>50		10
	>300-500	>50		2
3P+N+E	50/60	100-130		4
	50/60	208-250		9
	50/60	346-415		6
	50/60	480-500		7
	50/60	600-690		5
	60	440-460		11
	50 60	380 440		3
	>300-500	>50		2

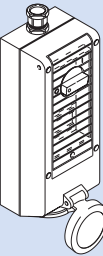
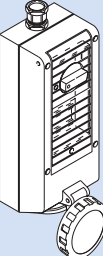
WITH FUSE CARRIER

 IP44		 IP66		
16 A ⁽¹⁾ PG21 1/10	32 A ⁽¹⁾ PG21 1/10	16 A ⁽¹⁾ PG21 1/10	32 A ⁽¹⁾ PG21 1/10	63 A ⁽²⁾ PG29 1/4
551.1670	551.3270	556.1670	556.3270	556.6370 ⁽³⁾
551.1683	551.3283	556.1683	556.3283	556.6383 ⁽³⁾
551.1678	551.3278	556.1678	556.3278	556.6378 ⁽³⁾
551.16837	551.32837	556.16837	556.32837	556.63837
551.16836	551.32836	556.16836	556.32836	556.63836
551.16833	551.32833	556.16833	556.32833	556.63833
551.16832	551.32832	556.16832	556.32832	
551.16834	551.32834	556.16834	556.32834	556.63834
551.16838	551.32838	556.16838	556.32838	556.63838
551.1672	551.3272	556.1672	556.3272	556.6372 ⁽³⁾
551.1674	551.3274	556.1674	556.3274	556.6374 ⁽³⁾
551.1686	551.3286	556.1686	556.3286	556.6376 ⁽³⁾
551.16865	551.32865	556.16865	556.32865	556.63765
551.16866	551.32866	556.16866	556.32866	556.63766
551.16867	551.32867	556.16867	556.32867	556.63767
551.16863	551.32863	556.16863	556.32863	556.63763
551.16864	551.32864	556.16864	556.32864	
551.16861	551.32861	556.16861	556.32861	
551.16862	551.32862	556.16862	556.32862	
551.1679	551.3279	556.1679	556.3279	556.6379 ⁽³⁾
551.1675	551.3275	556.1675	556.3275	556.6375 ⁽³⁾
551.1687	551.3287	556.1687	556.3287	556.6377 ⁽³⁾
551.16876	551.32876	556.16876	556.32876	556.63776
551.16877	551.32877	556.16877	556.32877	556.63777
551.16875	551.32875	556.16875	556.32875	556.63775
551.16874	551.32874	556.16874	556.32874	
551.16872	551.32872	556.16872	556.32872	

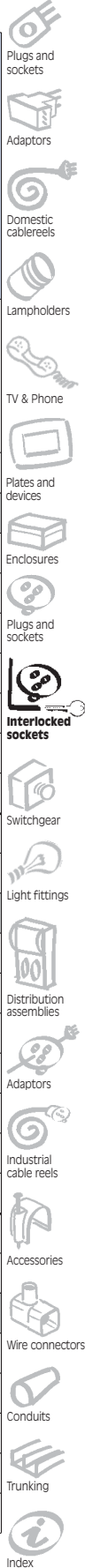
WITHOUT FUSE CARRIER

 IP44		 IP66	
16 A PG21 1/10	32 A PG21 1/10	16 A PG21 1/10	32 A PG21 1/10
544.1670	544.3270	547.1670	547.3270
544.1683	544.3283	547.1683	547.3283
544.1678	544.3278	547.1678	547.3278
544.16837	544.32837	547.16837	547.32837
544.16836	544.32836	547.16836	547.32836
544.16833	544.32833	547.16833	547.32833
544.16832	544.32832	547.16832	547.32832
544.16834	544.32834	547.16834	547.32834
544.16838	544.32838	547.16838	547.32838
544.1672	544.3272	547.1672	547.3272
544.1674	544.3274	547.1674	547.3274
544.1686	544.3286	547.1686	547.3286
544.16865	544.32865	547.16865	547.32865
544.16866	544.32866	547.16866	547.32866
544.16867	544.32867	547.16867	547.32867
544.16863	544.32863	547.16863	547.32863
544.16864	544.32864	547.16864	547.32864
544.16861	544.32861	547.16861	547.32861
544.16862	544.32862	547.16862	547.32862
544.1679	544.3279	547.1679	547.3279
544.1675	544.3275	547.1675	547.3275
544.1687	544.3287	547.1687	547.3287
544.16876	544.32876	547.16876	547.32876
544.16877	544.32877	547.16877	547.32877
544.16875	544.32875	547.16875	547.32875
544.16874	544.32874	547.16874	547.32874
544.16872	544.32872	547.16872	547.32872

WITH DIN RAIL (4 DIN MODULES)

 <div>552.</div> <div>IP44</div>		 <div>557.</div> <div>IP66</div>		
16 A PG21 1/10	32 A PG21 1/10	16 A PG21 1/10	32 A PG21 1/10	63 A PG29 1/4
552.1670	552.3270	557.1670	557.3270	557.6370
552.1683	552.3283	557.1683	557.3283	557.6383
552.1678	552.3278	557.1678	557.3278	557.6378
552.16837	552.32837	557.16837	557.32837	557.63837
552.16836	552.32836	557.16836	557.32836	557.63836
552.16833	552.32833	557.16833	557.32833	557.63833
552.16832	552.32832	557.16832	557.32832	
552.16834	552.32834	557.16834	557.32834	557.63834
552.16838	552.32838	557.16838	557.32838	557.63838
552.1672	552.3272	557.1672	557.3272	557.6372
552.1674	552.3274	557.1674	557.3274	557.6374
552.1686	552.3286	557.1686	557.3286	557.6376
552.16865	552.32865	557.16865	557.32865	557.63765
552.16866	552.32866	557.16866	557.32866	557.63766
552.16867	552.32867	557.16867	557.32867	557.63767
552.16863	552.32863	557.16863	557.32863	557.63763
552.16864	552.32864	557.16864	557.32864	
552.16861	552.32861	557.16861	557.32861	
552.16862	552.32862	557.16862	557.32862	
552.1679	552.3279	557.1679	557.3279	557.6379
552.1675	552.3275	557.1675	557.3275	557.6375
552.1687	552.3287	557.1687	557.3287	557.6377
552.16876	552.32876	557.16876	557.32876	557.63776
552.16877	552.32877	557.16877	557.32877	557.63777
552.16875	552.32875	557.16875	557.32875	557.63775
552.16874	552.32874	557.16874	557.32874	
552.16872	552.32872	557.16872	557.32872	

(1) Fuses: gG 10,3x38 (2) Fuses: E33 (3) Fuses: Neozed Type D02



NOTE
The ADVANCE Series is made up of ADVANCE 2 Series (from page 274)
The modular compatibility is unchanged

HEAVY DUTY VERSION INTERLOCKED-SWITCH SOCKET OUTLETS

Surface mounting

Rated operating voltage >50 V




























Heavy Duty Version - for high risk usage

Reference standards: IEC 60309-1 and 60309-2

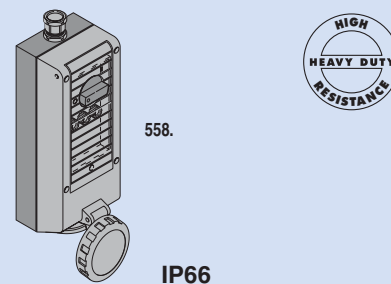
- Approvals: from page 535
- Systems: ADVANCE HD (from page 254)
- Switches: page 294

- The base colour is RAL 7011 grey
- The colour of the cover is clearer RAL 7004 grey
- The hinged window isn't transparent. It is made of the same material as the cover and closed by screw

Cable Gland:
Pack qty.:

Poles	Hz	V	Colour	h
2P+E	50/60	100-130		4
	50/60	200-250		6
	50/60	380-415		9
	60	277		5
	50/60	480-500		7
	50/60	is. transf.		12
	>300-500	>50		2
	c.c.	>50-250		3
	c.c.	>250		8
3P+E	50/60	100-130		4
	50/60	200-250		9
	50/60	380-415		6
	60	440-460		11
	50/60	480-500		7
	50/60	600-690		5
	50/60	is. transf.		12
	50 60	380 440		3
	100-300	>50		10
	>300-500	>50		2
3P+N+E	50/60	100-130		4
	50/60	208-250		9
	50/60	346-415		6
	50/60	480-500		7
	50/60	600-690		5
	60	440-460		11
	50 60	380 440		3
	>300-500	>50		2

WITH FUSE CARRIER



16 A⁽¹⁾ PG21 1/10	32 A⁽¹⁾ PG21 1/10	63 A⁽²⁾ PG29 1/4
558.1670	558.3270	558.6370 ⁽³⁾
558.1683	558.3283	558.6383 ⁽³⁾
558.1678	558.3278	558.6378 ⁽³⁾
558.16837	558.32837	558.63837
558.16836	558.32836	558.63836
558.16833	558.32833	558.63833
558.16832	558.32832	558.63832
558.16834	558.32834	558.63834
558.16838	558.32838	558.63838
558.1672	558.3272	558.6372 ⁽³⁾
558.1674	558.3274	558.6374 ⁽³⁾
558.1686	558.3286	558.6376 ⁽³⁾
558.16865	558.32865	558.63765
558.16866	558.32866	558.63766
558.16867	558.32867	558.63767
558.16863	558.32863	558.63763
558.16864	558.32864	
558.16861	558.32861	
558.16862	558.32862	
558.1679	558.3279	558.6379 ⁽³⁾
558.1675	558.3275	558.6375 ⁽³⁾
558.1687	558.3287	558.6377 ⁽³⁾
558.16876	558.32876	558.63776
558.16877	558.32877	558.63777
558.16875	558.32875	558.63775
558.16874	558.32874	
558.16872	558.32872	

(1) Fuse: gG 10,3x38 (2) Fuse: E33 (3) Fuse: Neozed Type D02

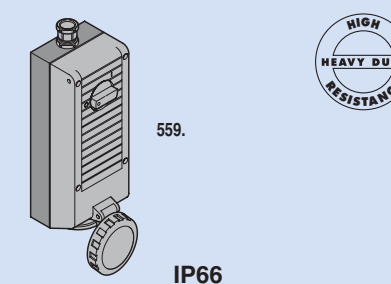


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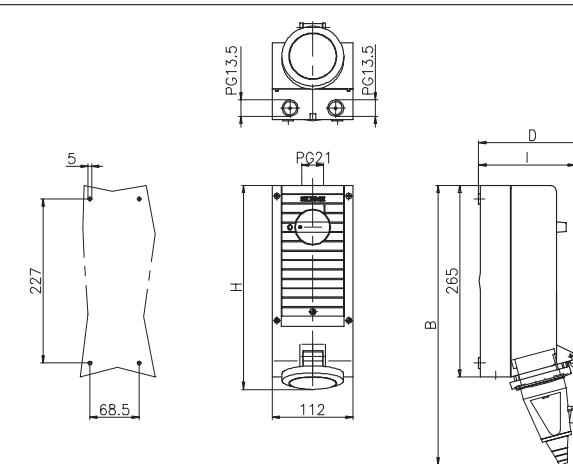
2.3

WITH DIN RAIL



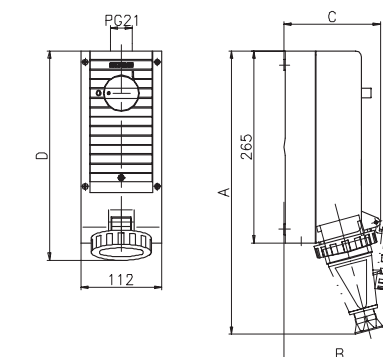
16 A PG21 1/10	32 A PG21 1/10	63 A PG29 1/4
559.1670	559.3270	559.6370
559.1683	559.3283	559.6383
559.1678	559.3278	559.6378
559.16837	559.32837	559.63837
559.16836	559.32836	559.63836
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559.1672	559.3272	559.6372
559.1674	559.3274	559.6374
559.1686	559.3286	559.6376
559.16865	559.32865	559.63765
559.16866	559.32866	559.63766
559.16867	559.32867	559.63767
559.16863	559.32863	559.63763
559.16864	559.32864	
559.16861	559.32861	
559.16862	559.32862	
559.1679	559.3279	559.6379
559.1675	559.3275	559.6375
559.1687	559.3287	559.6377
559.16876	559.32876	559.63776
559.16877	559.32877	559.63777
559.16875	559.32875	559.63775
559.16874	558.32874	
559.16872	559.32872	

ADVANCE SERIES 16 A AND 32 A



>50V
IP44

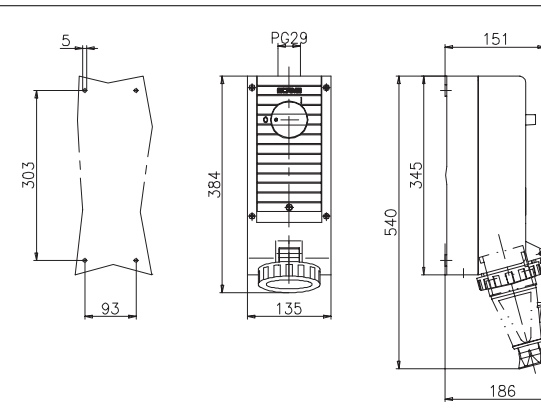
		B	D	H	I
16A	2P+E	363	137	281	11
	3P+E	374	146	281	13
	3P+N+E	387	150	282	13
32A	2P+E	396	158	287	14
	3P+E	396	158	287	14
	3P+N+E	402	157	288	13



>50V
IP66

		A	B	D	C
16A	2P+E	373	140	284	11
	3P+E	379	150	285	13
	3P+N+E	391	154	286	13
32A	2P+E	398	160	291	14
	3P+E	398	160	291	14
	3P+N+E	403	162	291	13

ADVANCE SERIES 63 A



(Dimensions in mm)



NOTE
The ADVANCE Series is made up of ADVANCE 2
Series (from page 274)
The modular compatibility is unchanged

ELECTRIC INTERLOCK
VERSION < 50V

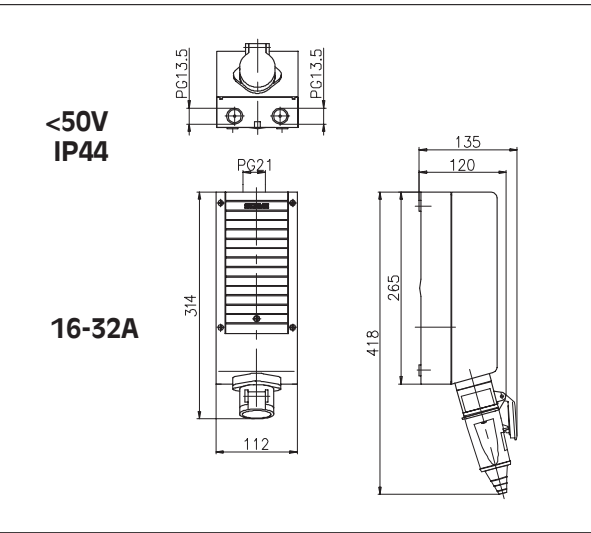


The ADVANCE < 50 V surface mounting socket outlet is ideal for supplying low voltage appliances in safety (SELV).

VERSIONS

- With SELV transformer
- With DIN rail, without SELV transformer

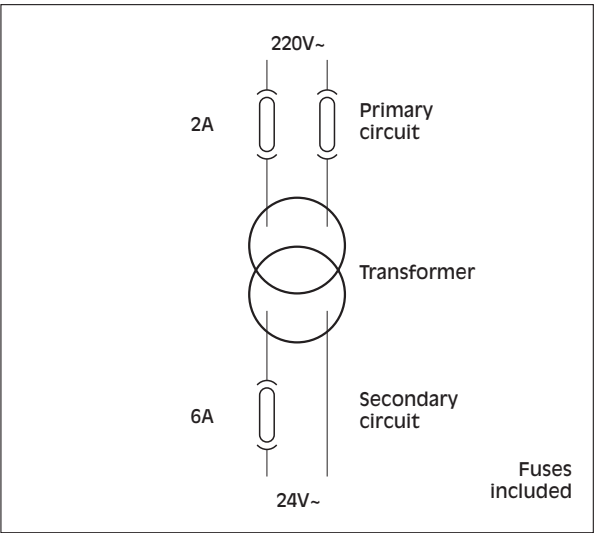
Both the versions are available in HD material and can be fitted into the ADVANCE System.



THE EXTRA-LOW VOLTAGE SYSTEM
OF SAFETY (SELV)

The SELV system is effectively used on low voltage installations to provide protection against shock hazards for personnel in the event of direct or indirect contacts.
IEC 60364 Standards require the following essential conditions to be met by an installation to implement the SELV system:

- rated voltage: not above 50V~ or 120V d.c.
- power supply: from a safety source with galvanic separation, eg. safety transformer, emergency generator, battery, equivalent electronic devices, etc.
- live parts are not earthed nor connected to the live parts of other electrical systems nor to protective conductors of other circuits
- electric circuits: electric separation from other circuits with isolation characteristics equal to those provided between the primary and secondary winding of the safety transformers, use a non-metallic sheath.
- metallic bodies should not be earthed nor connected to protective conductors or the metallic bodies of other electrical systems nor to external metallic bodies
- plugs should not be inserted into the sockets of other electrical systems
- sockets should not allow for the insertion of plugs of other electrical systems and should not have earth contact.



Protections for the version with transformer

(Dimensions in mm)

ELECTRIC INTERLOCK VERSION
EXTRA LOW VOLTAGE SAFETY SYSTEM (SELV)

Surface mounting

Rated operating voltage <50V

Reference standards: IEC 60309-1 and 60309-2

- Approvals: from page 535
- Systems: ADVANCE 136 and ADVANCE HD (page 254)

VERSION WITH SAFETY TRANSFORMER

- SELV Transformer 220/24V~ - 150VA (continuous power)
- Extra Low power safety
- With a micro-switch that provides electric interlock and operates on the transformer primary
- E16 Transformer protection fuses: 2A primary, 6A secondary
- Cable gland PG 21

SOCKET	DESCRIPTION	COLOUR	h	RATED VOLTAGE	PACK QTY.	IP44 CAT.NO.	IP67 CAT.NO.
2P - 16A	NORMAL		-	20-25V~	1/4	554.2416	554.2416/S
	HEAVY DUTY		-	20-25V~	1/4	553.2416	553.2416/S

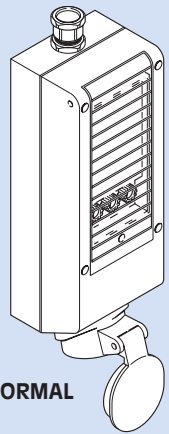
The electric interlock is activated by the insertion of the plug.

VERSION WITH EN 50022 RAIL (4 DIN MODULES)

- Without transformer
- With a micro-switch that can be connected to relays for the electric interlock
- Protections: to be installed on DIN rail
- Version particularly suitable for extra low voltage systems with main transformer
- Cable gland PG21

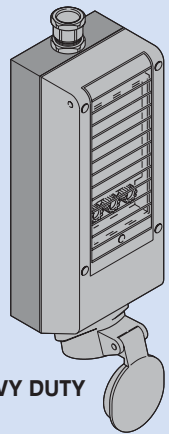
SOCKET	DESCRIPTION	COLOUR	h	RATED VOLTAGE	PACK QTY.	IP44 CAT.NO.	IP67 CAT.NO.
2P - 16A	NORMAL		-	20-25V~	1/4	554.2420	554.2420/S
			12	40-50V~	1/4	554.2421	554.2421/S
	HEAVY DUTY		-	20-25V~	1/4	553.2420	553.2420/S
			12	40-50V~	1/4	553.2421	553.2421/S
2P - 32A	NORMAL		-	20-25V~	1/4	554.2432	554.2432/S
			12	40-50V~	1/4	554.2433	554.2433/S
	HEAVY DUTY		-	20-25V~	1/4	553.2432	553.2432/S
			12	40-50V~	1/4	553.2433	553.2433/S

The electric interlock is activated by the insertion of the plug.



NORMAL

554.



HEAVY DUTY

553.

- Plugs and sockets
- Adaptors
- Domestic cable reels
- Lampholders
- TV & Phone
- Plates and devices
- Enclosures
- Plugs and sockets
- Interlocked sockets
- Switchgear
- Light fittings
- Distribution assemblies
- Adaptors
- Industrial cable reels
- Accessories
- Wire connectors
- Conduits
- Trunking
- Index

ELECTRIC INTERLOCK
VERSION 125 A

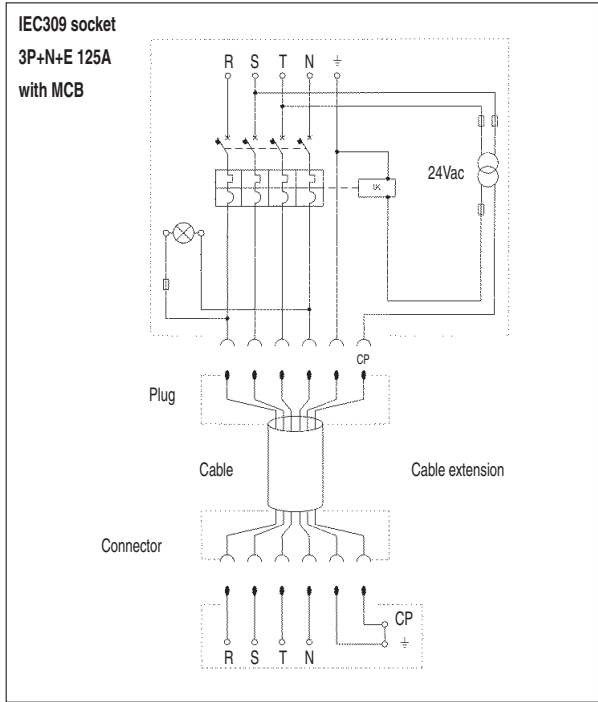


Suitable for supplying heavy electrical loads, such as required for building sites, assemblies and complex machines or systems that absorb high currents. SCAME's ADVANCE Series 125A socket outlets come with protective devices already installed. An undervoltage release opens the circuit if the supply voltage goes under the pre-set limit.

VERSIONS

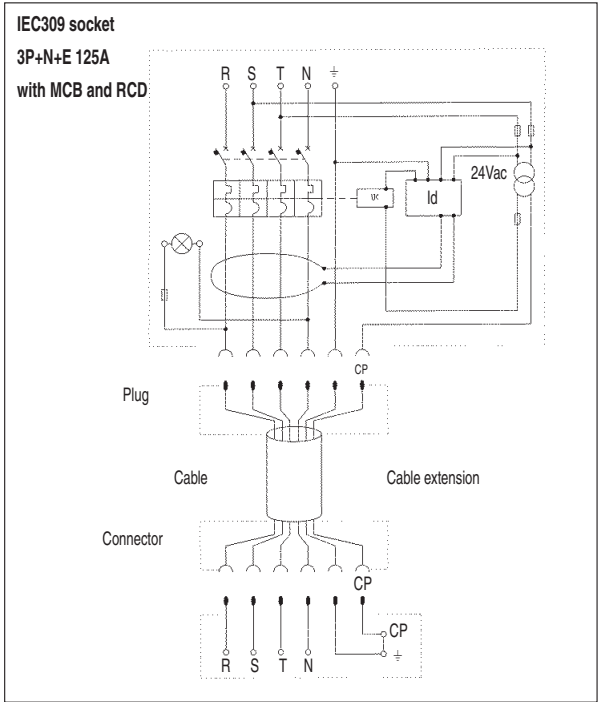
- With MCB
- With MCB and RCD

ELECTRICAL INTERLOCK DIAGRAM



PILOT CONTACT

Under the IEC 60309-2 Standard plugs and sockets with rated current above 63A should be fitted with a pilot contact which, through an electric interlock, prevents the plug from being inserted and withdrawn while under load. This device prevents the forming of dangerous arc discharges between the contacts. The interlock device consists of an undervoltage release (mounted in the circuit breaker) controlled by the pilot contact. The pilot contact closing lags after that of the phase contacts when the plug is inserted into the socket, whereas the pilot contact opening leads before that of the phase contacts when the plug is withdrawn from the socket. Thanks to this sequence, through the undervoltage release, the pilot contact causes tripping of the circuit breaker, which switches off the socket's main power circuit before the plug is withdrawn and closes it after the plug has been fully inserted.



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ELECTRIC INTERLOCK VERSION 125 A - IP55

Surface mounting

Rated operating voltage >50V - IP55

Reference standard: IEC 60309-1 and 60309-2

- Electric interlock
- RAL 7032 grey highly impact-resistant casing
- Bayonet coupling socket outlet
- Colour according to the different operating voltages
- Degree of protection: IP55
- Electric interlock obtained with pilot contact and undervoltage release which allows the plug to be inserted or withdrawn only when the circuit is open
- Thermal magnetic moulded-case circuit breaker (MCCB) with or without residual current device (RCD) reactivated from the outside by a rotating knob that can be padlocked, breaking power: 15KA
- Safety transformer (24V~) for interlock control, protected by fuses
- Live status light indicator
- Supplied complete with cable gland PG48

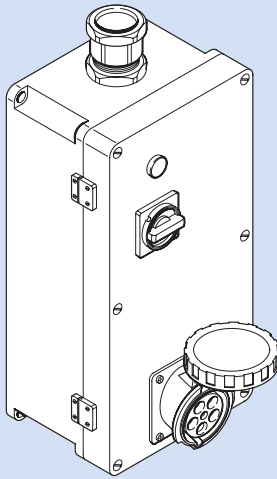
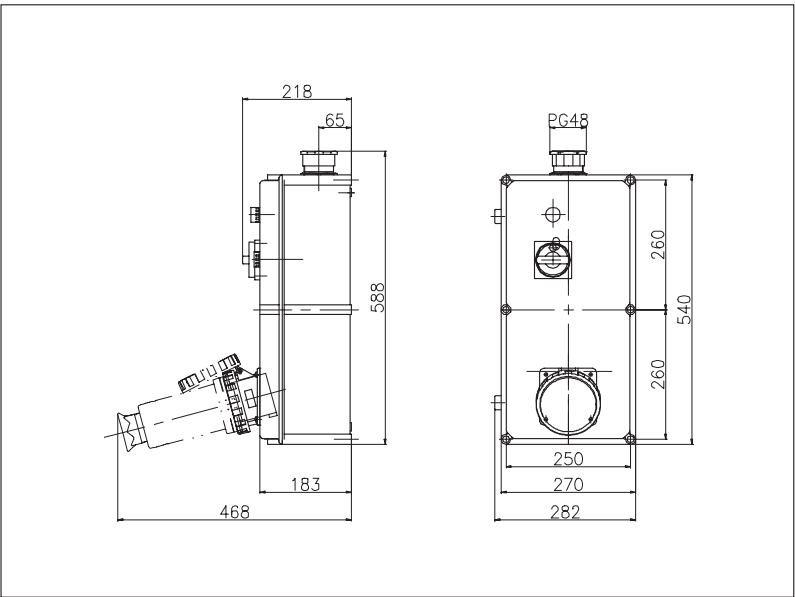
WITH MCB

DESCRIPTION	COLOUR	PACK QTY.	CATALOGUE NUMBER
Socket 3P+E 125A - 380/415V		1	557.12576
Socket 3P+N+E 125A - 380/415V		1	557.12577

WITH MCB AND RCD

DESCRIZIONE	COLORE	CONFEZ. IMBALLO	CODICE ARTICOLO
Socket 3P+E 125A - 380/415V		1	557.12586
Socket 3P+N+E 125A - 380/415V		1	557.12587

ADVANCE SERIES 125 A



ADVANCE 2 System

MODULAR SYSTEM FOR COMBINATION UNITS



The new, completely IMQ-certified, system by Scame has been mainly designed for industrial purposes. It consists of two bases (module 106 and module 136), which can be provided with interlocked sockets made in two 16/32A and 63A containers. The reduced number of versions in only two sizes is the solution to manifold planning and installing problems, assembling very few elements and easy maintenance.

VERSIONS

The whole ADVANCE 2 system is based on two standard widths, 106 and 136 mm, which are produced in two different modules:

- **MODULO 106** here defined as "compact"
- **MODULO 136** here defined as "large"

Both modules are also available in the HD (Heavy Duty) version, which is made with high mechanical features and resistant to chemical agents. It has been designed for heavy use.

- ADVANCE 2 System consists of the following:
- no. 2 modular supports having the sizes below:
 106 x 434 (Compact)
 136 x 584 (Large)
 - Many connector blocks and set housing boxes with modular length of 106 and 136 mm.

COMPATIBILITY

No problems of incompatibility has occurred with all SCAME systems installed up to now for the innovative ADVANCE 2 series.

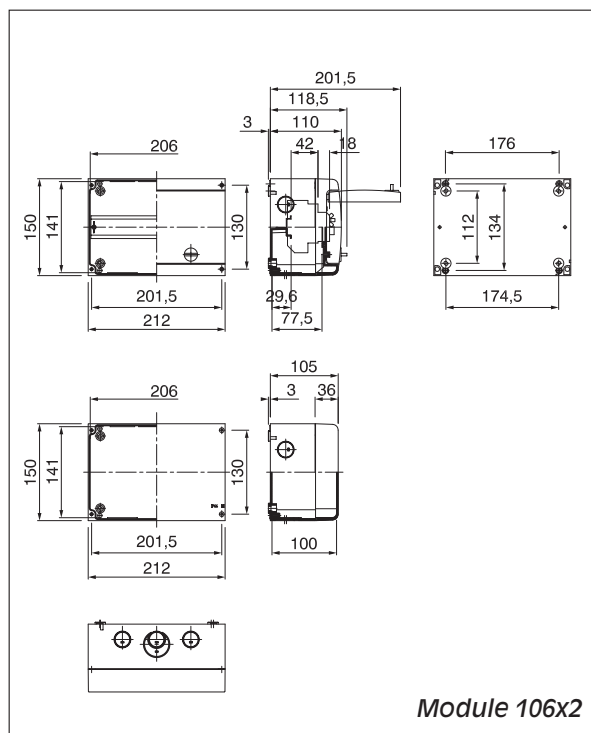
This continuance is precious. In fact, it also allows using the new range of products for the maintenance of already existing interlocked batteries.

The ADVANCE 2 System cable inlet is of "METRIC" type; on the contrary, the components of the ADVANCE and OMNIA Systems and Series are of "PG" type.

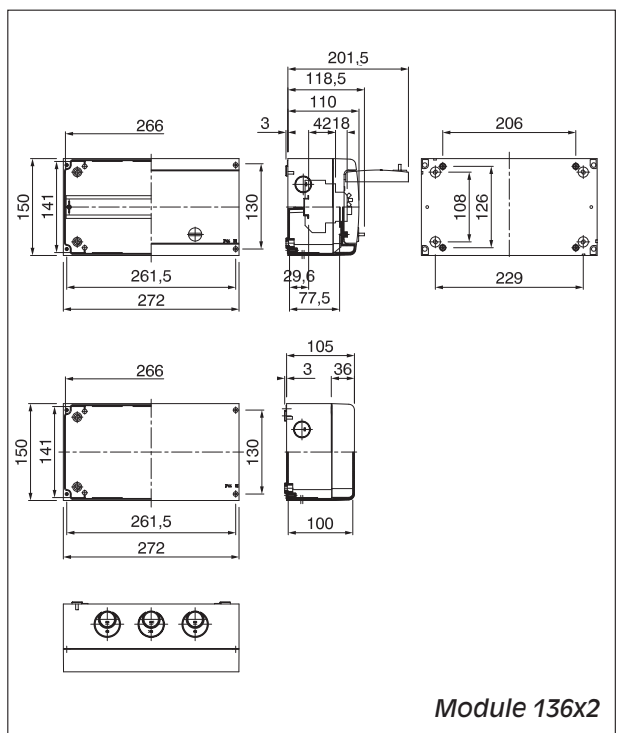
Compatibility is anyway ensured, even if the metrical inlets shall be adjusted to the PGs during the installation.

For the OMNIA Series, we advise to use performances with metrical inlet (cat. number .Mxxxx).

JUNCTION BOXES



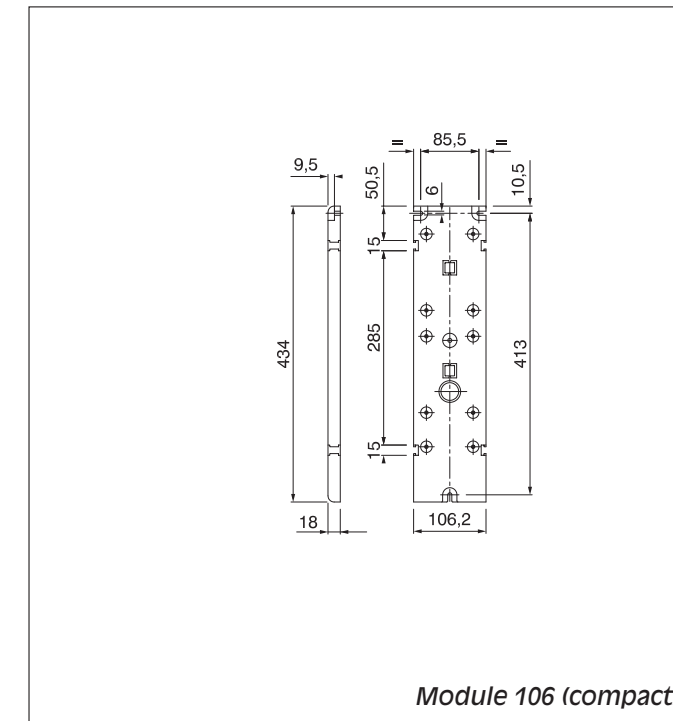
Module 106x2



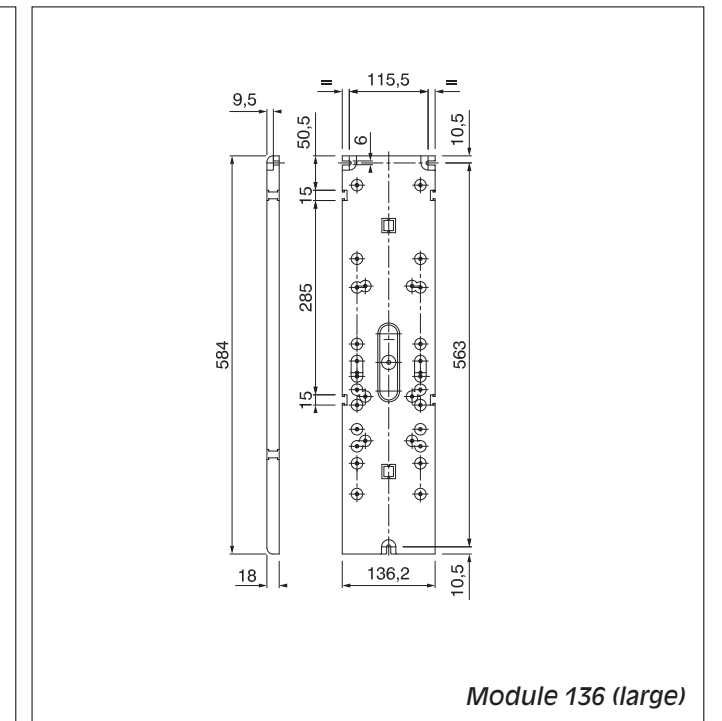
Module 136x2

(dimensions in mm)

MODULAR BASES

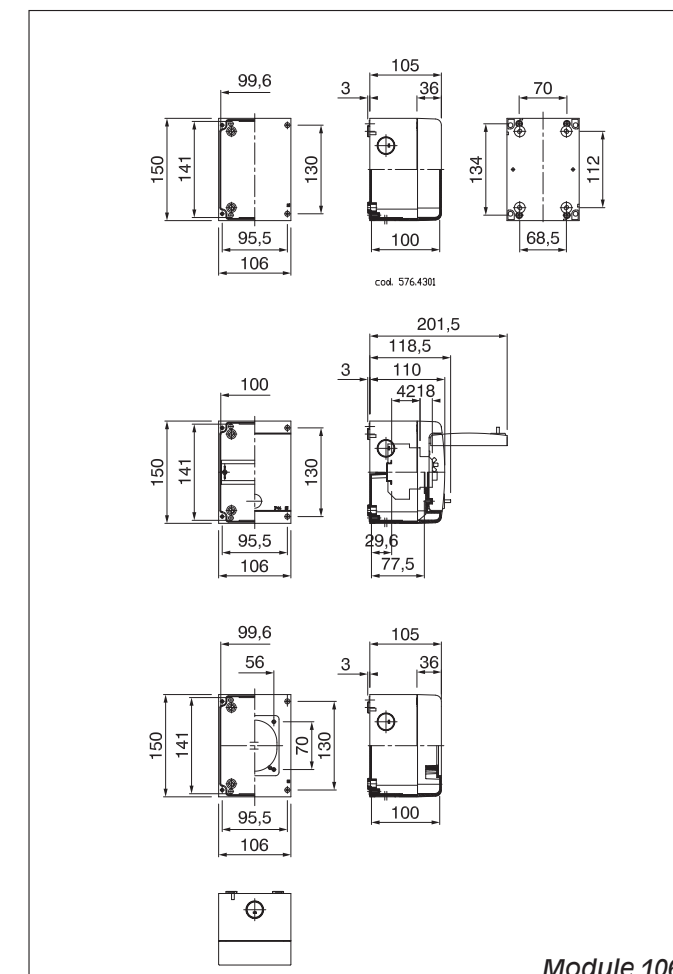


Module 106 (compact)

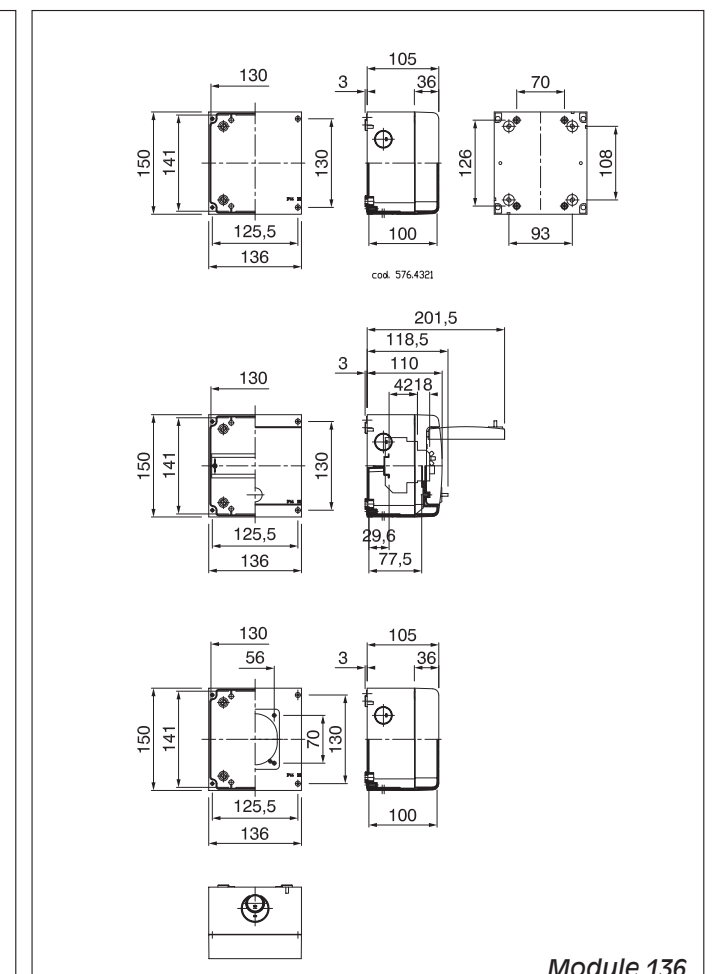


Module 136 (large)

JUNCTION BOXES



Module 106



Module 136

(dimensions in mm)



MODULAR SYSTEM FOR COMBINATION UNITS - IP66

Reference standard IEC 60670, CEI 23-48 and CEI 23-49

- Dimensions: page 270-271
- Accessories: from page 158

Cover sealing kit (made up of 2 special screws, 2 sealed caps, 2 seals and strip of wire - cat. number 654.0032/25pcs).

MODULE 106 (compact)

- Modularity: ADVANCE 2 Series compact (page 276÷283)

MODULE 136 (large)

- Modularity: ADVANCE 2 Series compact and large (page 276÷283)
- OMNIA Series (page 246-247)
- OMNIA Serie with fuse carrier (pages 248-249)
- QUADRA Series (page 286)

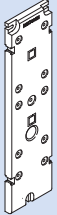
MODULE 106 (compact)


- Modularity: ADVANCE 2 HD Series compact (pages 276÷283)

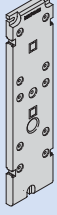
MODULE 136 (Large)


- Modularity: ADVANCE 2 HD Serie compact and large (page 276÷283)

MODULAR BASES
Complete with inserts for joining several bases

	16A 32A
COMPACT	
PACK QTY.	CAT. NUMBER
12	576.4300

	16A 32A 63A
1 ADVANCE 2 QUADRA 3 OMNIA (16-32A) 1 OMNIA (63A)	
LARGE	
PACK QTY.	CAT. NUMBER
6	576.4340

	16A 32A
COMPATTA HD	
PACK QTY.	CAT. NUMBER
12	578.4300

	16A 32A 63A
LARGE HD	
PACK QTY.	CAT. NUMBER
6	578.4340

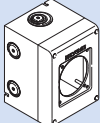

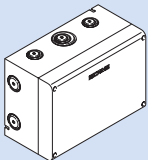
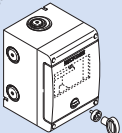
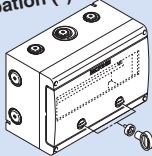


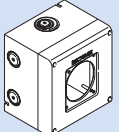
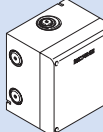
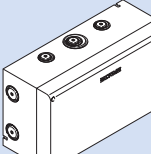
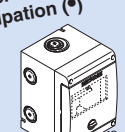
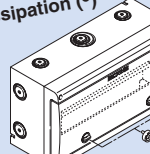
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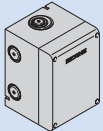
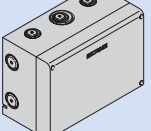
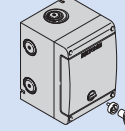
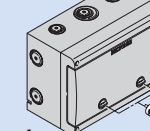






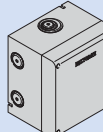
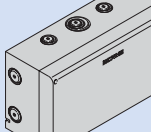
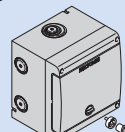
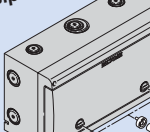




ENCLOSURES - IP66

One-module with cut out One-module plain lid Two-modules plain lid One-module with window Two-modules with window

 FLANGE 70x87			 Power dissipation (*) 8W 4 DIN	 Power dissipation (*) 14W 10 DIN
PACK QTY. CATALOGUE NUMBER	PACK QTY. CATALOGUE NUMBER	PACK QTY. CATALOGUE NUMBER	PACK QTY. CATALOGUE NUMBER	PACK QTY. CATALOGUE NUMBER
12 ⑆ 576.4303	12 ⑆ 576.4301	6 ⑆ 576.4304	6 ⑆ 576.4302	6 ⑆ 576.4305

				
FLANGE 70x87	#		6 DIN	13 DIN
PACK QTY. CATALOGUE NUMBER	PACK QTY. CATALOGUE NUMBER	PACK QTY. CATALOGUE NUMBER	PACK QTY. CATALOGUE NUMBER	PACK QTY. CATALOGUE NUMBER
12 576.4323	12 576.4321	6 576.4324	6 576.4322	6 576.4325

			<div>Power dissipation (*) 9W</div>  <div>4 DIN</div>	<div>Power dissipation (*) 14W</div>  <div>10 DIN</div>				
	PACK QTY.	CATALOGUE NUMBER	PACK QTY.	CATALOGUE NUMBER	PACK QTY.	CATALOGUE NUMBER		
	12	 578.4301	6	 578.4304	6	 578.4302	6	 578.4305

			 <div>Power dissipation (*) 9W</div> <div>6 DIN</div>	 <div>Power dissipation (*) 17W</div> <div>13 DIN</div>				
	PACK QTY.	CATALOGUE NUMBER	PACK QTY.	CATALOGUE NUMBER	PACK QTY.	CATALOGUE NUMBER		
	12	 578.4321	6	 578.4324	6	 578.4322	6	 578.4325

Note: The enclosure are supplied with screws for fastening the lid and mounting to the boxes; the kit also includes, metric coupler, seals and nuts: In order to carry out precise performance for metric shunt boxes, we recommend the use of stepped milling cutter.

(*) Power calculated according to CEI 23-49 (Italian standard)
(#) Also available drilled. It is suitable for rotary switches (cat. number 576.4390, pack qty. 6)
The Heavy Duty products are suitable to heavy working conditions and are also resistant to highly salty environments.

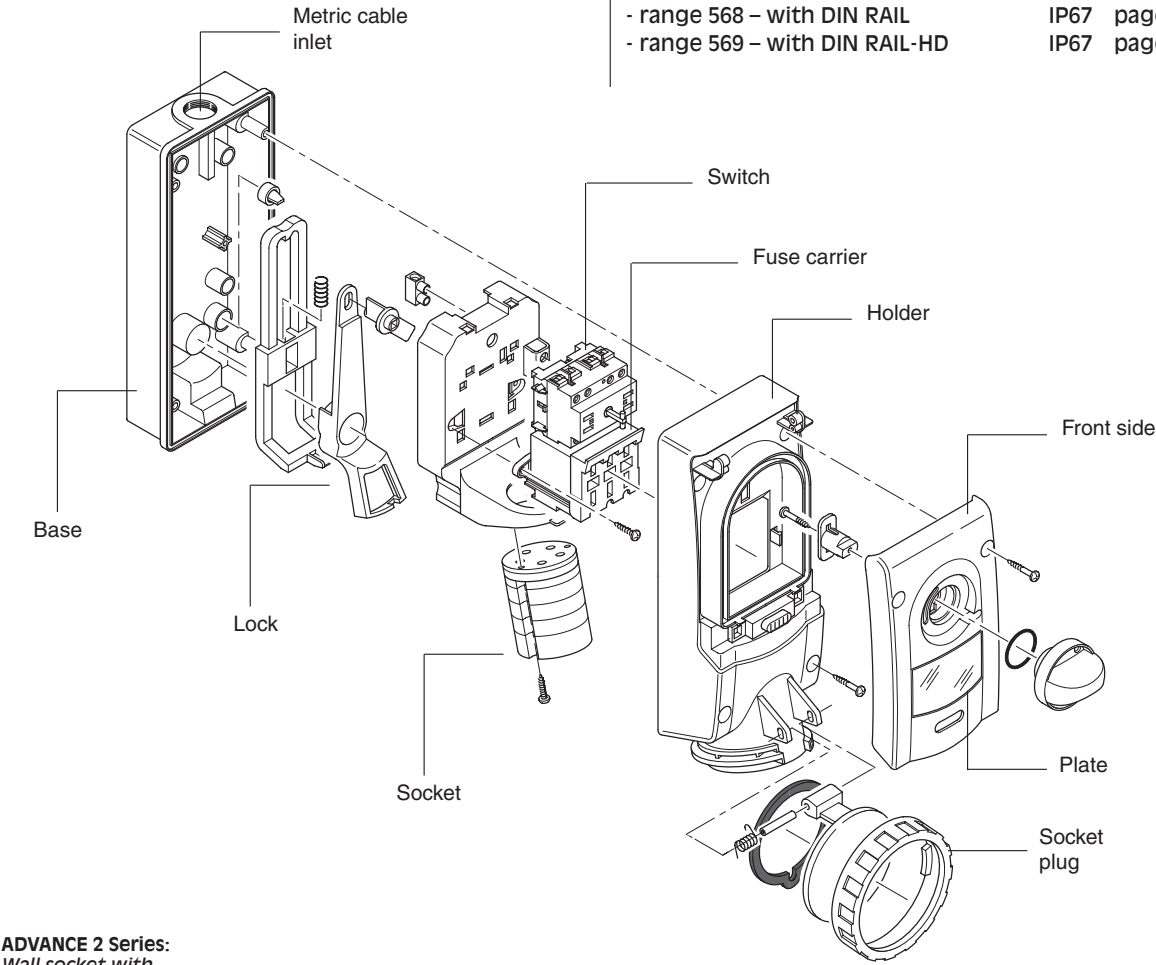




ADVANCE 2 SERIES
INTERLOCKED-SWITCH SOCKET OUTLETS



The picture shows:
- Heavy Duty socket
(RAL 5015 blue front side and dark grey RAL 7004 body).
- Standard socket
(grey RAL 7035 front side and smoke-grey plate).



ADVANCE 2 Series:
Wall socket with
mechanical lock.

GENERAL DESCRIPTION

SCAME, ADVANCE 2 Series, interlocked socket outlets have smooth and well-connected surfaces, with no sharp edge or lines, included the hand grip, which ensure top safety and ergonomic use as well as easy cleaning, being installed in environments that particularly need such requirement.
A vertical convex strip symmetrically runs along the front side, gathering the handgrip control, which can be also provided with lock, the transparent opening for the monitoring of switches or protective fuses that connect down with the socket, following the round profile of the cover and being a sort of functional axis of the product.
The small window has been installed by overprinting. It allows maintaining the IP67 degree of protection without using any gasket or shutter, with perfectly smooth surfaces.

PERFORMANCES

- range 560 – without fuse carrier	IP44	page 276
- range 561 – without fuse carrier	IP67	page 277
- range 562 – with fuse carrier	IP44	page 278
- range 563 – with fuse carrier	IP67	page 279
- range 564 – with fuse carrier-HD	IP67	page 279
- range 565 – very low voltage		page 283
- range 566 – very low HD voltage		page 283
- range 567 – with DIN RAIL	IP44	page 280
- range 568 – with DIN RAIL	IP67	page 281
- range 569 – with DIN RAIL-HD	IP67	page 281

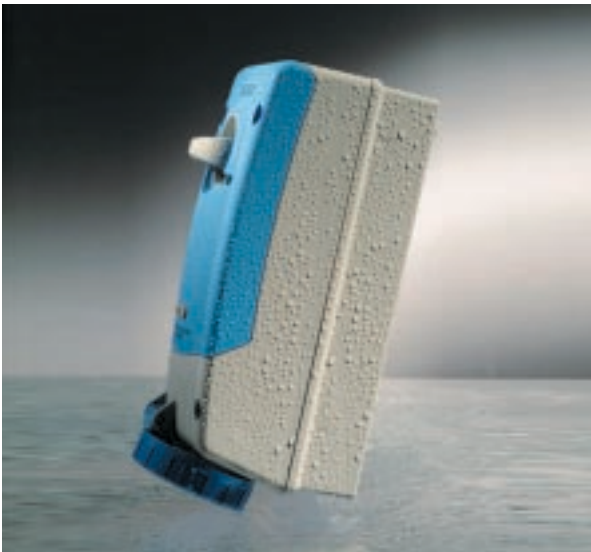
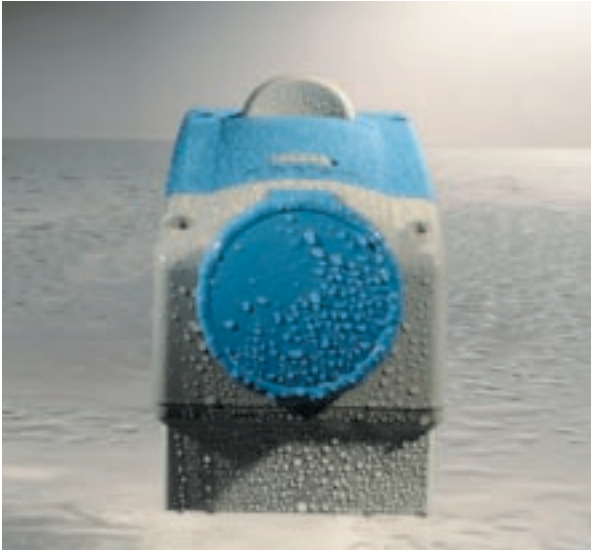
TECHNICAL CHARACTERISTICS

- Protection degree: IP44 – IP67
- Threaded cable inlet with possible in-out device on the bottom.
- Complete interchangeability with the installed product.
- Grip can be locked.
- Screwless plate.
- Plate with overprinted window.
- Seals made by co-printing and skimming.
- Use of socket plugs with rubber gaskets.
- Reduced number of versions in two dimensions only.
- A complete range of products for manifold planning and installing solutions.
- Up to 6 modules that can be installed in the versions with DIN slide.
- Improved mechanical interlocking system.
- Very few elements to be assembled for easy and quick installing and maintaining operations.
- Provided with ground clamp firmly anchored to the base.
- Wide room for cabling.

METRIC CABLE INLET

- Compact version 16A & 32A
1 M25 threaded on upper side
2 marks for M20 on lower side
1 back mark
Provided with large version M25
- Large version 16A & 32A
1 M25 threaded on upper side
2 marks for M20 on lower side
1 back mark
Provided with cable gland M25
- 63A large version
1 M40 threaded on upper side
2 marks for M32 on lower side
1 back mark
Provided with cable gland M40

NOTE: features referring to Heavy Duty products are shown on page 253.



SOCKET OUTLETS
INTERLOCKED-SWITCH

Surface mounting - Rated operating voltage >50 V
Reference standards: IEC 60309-1 and IEC 60309-2

- Dimensions: pages 284-285
- Approvals: from page 535
- Systems: ADVANCE 2 (from page 270)
- Switches: page 289

NOTE
- Compatible with ADVANCE System (from page 250)
- Replace ADVANCE Series (from page 258)

Poles	Hz.	Volt	Colour	h.	Format: Cable Gland : Pack qty.:
2P+E	50/60	100-130		4	
	50/60	200-250		6	
	50/60	380-415		9	
	60	277		5	
	50/60	480-500		7	
	50/60	is. transf.		12	
	>300-500	>50		2	
	c.c.	>50-250		3	
	c.c.	>250		8	
3P+E	50/60	100-130		4	
	50/60	200-250		9	
	50/60	380-415		6	
	60	440-460		11	
	50/60	480-500		7	
	50/60	600-690		5	
	50/60	is. transf.		12	
	50 60	380 440		3	
	100-300	>50		10	
	>300-500	>50		2	
3P+N+E	50/60	100-130		4	
	50/60	208-250		9	
	50/60	346-415		6	
	50/60	480-500		7	
	50/60	600-690		5	
	60	440-460		11	
	50 60	380 440		3	
	>300-500	>50		2	

WITHOUT FUSE CARRIER		IP44
16A	32A	
compact M25 1/12	compact M25 1/12	
560.1670	560.3270	
560.1683	560.3283	
560.1678	560.3278	
560.16837	560.32837	
560.16836	560.32836	
560.16833	560.32833	
560.16832	560.32832	
560.16834	560.32834	
560.16838	560.32838	
560.1672	560.3272	
560.1674	560.3274	
560.1686	560.3286	
560.16865	560.32865	
560.16866	560.32866	
560.16867	560.32867	
560.16863	560.32863	
560.16864	560.32864	
560.16861	560.32861	
560.16862	560.32862	
560.1679	560.3279	
560.1675	560.3275	
560.1687	560.3287	
560.16876	560.32876	
560.16877	560.32877	
560.16875	560.32875	
560.16874	560.32874	
560.16872	560.32872	

WITHOUT FUSE CARRIER		IP67
16A	32A	63A
compact M25 1/12	compact M25 1/12	large M40 1/4
561.1670	561.3270	561.6370
561.1683	561.3283	561.6383
561.1678	561.3278	561.6378
561.16837	561.32837	561.63837
561.16836	561.32836	561.63836
561.16833	561.32833	561.63833
561.16832	561.32832	
561.16834	561.32834	561.63834
561.16838	561.32838	561.63838
561.1672	561.3272	561.6372
561.1674	561.3274	561.6374
561.1686	561.3286	561.6386
561.16865	561.32865	561.63865
561.16866	561.32866	561.63866
561.16867	561.32867	561.63867
561.16863	561.32863	561.63863
561.16864	561.32864	
561.16861	561.32861	
561.16862	561.32862	
561.1679	561.3279	561.6379
561.1675	561.3275	561.6375
561.1687	561.3287	561.6387
561.16876	561.32876	561.63876
561.16877	561.32877	561.63877
561.16875	561.32875	561.63875
561.16874	561.32874	
561.16872	561.32872	

COMPATIBILTID AND REPLACEMENT	
ADVANCE Serie	Replaced by ADVANCE 2 Series
range 542.	range 560.
range 545.	range 561.
range 550.	range 562.
range 555.	range 563.
range 544.	range 560.
range 547.	range 561.
range 551.	range 562.
range 556.	range 563.
range 552.	range 567.
range 557.	range 568.
range 558.	range 564.
range 559.	range 569.
range 554.	range 565.
range 553.	range 566.

- Plugs and sockets
- Adaptors
- Domestic cable reels
- Lampholders
- TV & Phone
- Plates and devices
- Enclosures
- Plugs and sockets
- Interlocked sockets
- Switchgear
- Light fittings
- Distribution assemblies
- Adaptors
- Industrial cable reels
- Accessories
- Wire connectors
- Conduits
- Trunking
- Index

INTERLOCKED SWITCH
SOCKET OUTLETS

Rated operating voltage >50 V
Reference standards: IEC 60309-1 and IEC 60309-2

- Dimensions: pages 284-285
- Approvals: from page 535
- Systems: ADVANCE 2 (from page 270)
- Switches: page 289

NOTE

- Compatible with ADVANCE System (from page 250)
- Replace ADVANCE Series (from page 258)

Poles		Hz.	Volt	Colour	h.	Format: Cable Gland : Pack qty.:
2P+E		50/60	100-130		4	
		50/60	200-250		6	
		50/60	380-415		9	
		60	277		5	
		50/60	480-500		7	
		50/60	is. transf.		12	
		>300-500	>50		2	
		c.c.	>50-250		3	
		c.c.	>250		8	
3P+E		50/60	100-130		4	
		50/60	200-250		9	
		50/60	380-415		6	
		60	440-460		11	
		50/60	480-500		7	
		50/60	600-690		5	
		50/60	is. transf.		12	
		50 60	380 440		3	
		100-300	>50		10	
		>300-500	>50		2	
3P+N+E		50/60	100-130		4	
		50/60	208-250		9	
		50/60	346-415		6	
		50/60	480-500		7	
		50/60	600-690		5	
		60	440-460		11	
		50 60	380 440		3	
		>300-500	>50		2	

WITH FUSE CARRIER

IP44

16A compact M25 1/12	32A compact M25 1/12
562.1670	562.3270
562.1683	562.3283
562.1678	562.3278
562.16837	562.32837
562.16836	562.32836
562.16833	562.32833
562.16832	562.32832
562.16834	562.32834
562.16838	562.32838
562.1672	562.3272
562.1674	562.3274
562.1686	562.3286
562.16865	562.32865
562.16866	562.32866
562.16867	562.32867
562.16863	562.32863
562.16864	562.32864
562.16861	562.32861
562.16862	562.32862
562.1679	562.3279
562.1675	562.3275
562.1687	562.3287
562.16876	562.32876
562.16877	562.32877
562.16875	562.32875
562.16874	562.32874
562.16872	562.32872

IP67

16A compact M25 1/12	32A compact M25 1/12	63A large M40 1/4
563.1670	563.3270	563.6370
563.1683	563.3283	563.6383
563.1678	563.3278	563.6378
563.16837	563.32837	563.63837
563.16836	563.32836	563.63836
563.16833	563.32833	563.63833
563.16832	563.32832	
563.16834	563.32834	563.63834
563.16838	563.32838	563.63838
563.1672	563.3272	563.6372
563.1674	563.3274	563.6374
563.1686	563.3286	563.6386
563.16865	563.32865	563.63865
563.16866	563.32866	563.63866
563.16867	563.32867	563.63867
563.16863	563.32863	563.63863
563.16864	563.32864	
563.16861	563.32861	
563.16862	563.32862	
563.1679	563.3279	563.6379
563.1675	563.3275	563.6375
563.1687	563.3287	563.6387
563.16876	563.32876	563.63876
563.16877	563.32877	563.63877
563.16875	563.32875	563.63875
563.16874	563.32874	
563.16872	563.32872	

HEAVY
DUTY
Versions

16A compact M25 1/12	32A compact M25 1/12	63A large M40 1/4
564.1670	564.3270	564.6370
564.1683	564.3283	564.6383
564.1678	564.3278	564.6378
564.16837	564.32837	564.63837
564.16836	564.32836	564.63836
564.16833	564.32833	564.63833
564.16832	564.32832	564.63832
564.16834	564.32834	564.63834
564.16838	564.32838	564.63838
564.1672	564.3272	564.6372
564.1674	564.3274	564.6374
564.1686	564.3286	564.6386
564.16865	564.32865	564.63865
564.16866	564.32866	564.63866
564.16867	564.32867	564.63867
564.16863	564.32863	564.63863
564.16864	564.32864	
564.16861	564.32861	
564.16862	564.32862	
564.1679	564.3279	564.6379
564.1675	564.3275	564.6375
564.1687	564.3287	564.6387
564.16876	564.32876	564.63876
564.16877	564.32877	564.63877
564.16875	564.32875	564.63875
564.16874	564.32874	
564.16872	564.32872	



INTERLOCKED SWITCH
SOCKET OUTLETS

Rated operating voltage >50 V
Reference standards: IEC 60309-1 and IEC 60309-2
• Dimensions: pages 284-285
• Approvals: from page 535
• Systems: ADVANCE 2 (from page 270)
• Switches: page 289

NOTE
- Compatible with ADVANCE System (from page 250)
- Replace ADVANCE Series (from page 258)

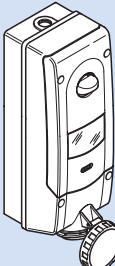
Poles		Hz.	Volt	Colour	h.	Format: Cable Gland : Pack qty.:
2P+E		50/60	100-130	<div></div>	4	
		50/60	200-250	<div></div>	6	
		50/60	380-415	<div></div>	9	
		60	277	<div></div>	5	
		50/60	480-500	<div></div>	7	
		50/60	is. transf.	<div></div>	12	
		>300-500	>50	<div></div>	2	
		c.c.	>50-250	<div></div>	3	
		c.c.	>250	<div></div>	8	
3P+E		50/60	100-130	<div></div>	4	
		50/60	200-250	<div></div>	9	
		50/60	380-415	<div></div>	6	
		60	440-460	<div></div>	11	
		50/60	480-500	<div></div>	7	
		50/60	600-690	<div></div>	5	
		50/60	is. transf.	<div></div>	12	
		50 60	380 440	<div></div>	3	
		100-300	>50	<div></div>	10	
		>300-500	>50	<div></div>	2	
3P+N+E		50/60	100-130	<div></div>	4	
		50/60	208-250	<div></div>	9	
		50/60	346-415	<div></div>	6	
		50/60	480-500	<div></div>	7	
		50/60	600-690	<div></div>	5	
		60	440-460	<div></div>	11	
		50 60	380 440	<div></div>	3	
		>300-500	>50	<div></div>	2	

WITH DIN RAIL (6 MODULES)

IP44

16A large M25 1/4	32A large M25 1/4
567.1670	567.3270
567.1683	567.3283
567.1678	567.3278
567.16837	567.32837
567.16836	567.32836
567.16833	567.32833
567.16832	567.32832
567.16834	567.32834
567.16838	567.32838
567.1672	567.3272
567.1674	567.3274
567.1686	567.3286
567.16865	567.32865
567.16866	567.32866
567.16867	567.32867
567.16863	567.32863
567.16864	567.32864
567.16861	567.32861
567.16862	567.32862
567.1679	567.3279
567.1675	567.3275
567.1687	567.3287
567.16876	567.32876
567.16877	567.32877
567.16875	567.32875
567.16874	567.32874
567.16872	567.32872

IP67

		
16A large M25 1/4	32A large M25 1/4	63A large M40 1/4
568.1670	568.3270	568.6370
568.1683	568.3283	568.6383
568.1678	568.3278	568.6378*
568.16837	568.32837	568.63837
568.16836	568.32836	568.63836
568.16833	568.32833	568.63833
568.16832	568.32832	
568.16834	568.32834	568.63834
568.16838	568.32838	568.63838
568.1672	568.3272	568.6372
568.1674	568.3274	568.6374
568.1686	568.3286	568.6386*
568.16865	568.32865	568.63865
568.16866	568.32866	568.63866
568.16867	568.32867	568.63867
568.16863	568.32863	568.63863
568.16864	568.32864	
568.16861	568.32861	
568.16862	568.32862	
568.1679	568.3279	568.6379
568.1675	568.3275	568.6375
568.1687	568.3287	568.6387*
568.16876	568.32876	568.63876
568.16877	568.32877	568.63877
568.16875	568.32875	568.63875
568.16874	568.32874	
568.16872	568.32872	

*only 400V

Versions
HEAVY
DUTY

IP67

<div>Versions HEAVY DUTY</div> <div></div>		<div></div>
<div>16A</div> <div>large M25 1/4</div>	<div>32A</div> <div>large M25 1/4</div>	<div>63A</div> <div>large M40 1/4</div>
569.1670	569.3270	569.6370
569.1683	569.3283	569.6383
569.1678	569.3278	569.6378*
569.16837	569.32837	569.63837
569.16836	569.32836	569.63836
569.16833	569.32833	569.63833
569.16832	569.32832	569.63832
569.16834	569.32834	569.63834
569.16838	569.32838	569.63838
569.1672	569.3272	569.6372
569.1674	569.3274	569.6374
569.1686	569.3286	569.6386*
569.16865	569.32865	569.63865
569.16866	569.32866	569.63866
569.16867	569.32867	569.63867
569.16863	569.32863	569.63863
569.16864	569.32864	
569.16861	569.32861	
569.16862	569.32862	
569.1679	569.3279	569.6379
569.1675	569.3275	569.6375
569.1687	569.3287	569.6387*
569.16876	569.32876	569.63876
569.16877	569.32877	569.63877
569.16875	569.32875	569.63875
569.16874	569.32874	
569.16872	569.32872	

- Plugs and sockets
- Adaptors
- Domestic cable reels
- Lampholders
- TV & Phone
- Plates and devices
- Enclosures
- Plugs and sockets
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- Distribution assemblies
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- Industrial cable reels
- Accessories
- Wire connectors
- Conduits
- Trunking
- Index

ADVANCE 2 SERIES
ELECTRIC INTERLOCK VERSION <50V



The ADVANCE < 50 V surface mounting socket outlet is ideal for supplying low voltage appliances in safety (SELV).

VERSIONS

- With SELV transformer
- With DIN rail, without SELV transformer

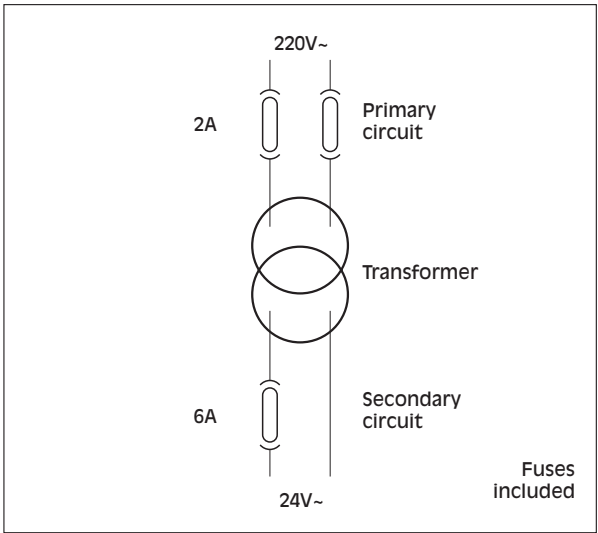
Both the versions are available in HD material and can be fitted into the ADVANCE System.

THE EXTRA-LOW VOLTAGE SYSTEM
OF SAFETY (SELV)

The SELV system is effectively used on low voltage installations to provide protection against shock hazards for personnel in the event of direct or indirect contacts.

IEC 60364 Standards require the following essential conditions to be met by an installation to implement the SELV system:

- rated voltage: not above 50V~ or 120V d.c.
- power supply: from a safety source with galvanic separation, eg. safety transformer, emergency generator, battery, equivalent electronic devices, etc.
- live parts are not earthed nor connected to the live parts of other electrical systems nor to protective conductors of other circuits
- electric circuits: electric separation from other circuits with isolation characteristics equal to those provided between the primary and secondary winding of the safety transformers, use a non-metallic sheath.
- metallic bodies should not be earthed nor connected to protective conductors or the metallic bodies of other electrical systems nor to external metallic bodies
- plugs should not be inserted into the sockets of other electrical systems
- sockets should not allow for the insertion of plugs of other electrical systems and should not have earth contact.



Protections for the version with transformer



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
TEL 0044 191 490 1547 FAX 0044 477 5371
TEL 0044 117 977 4647 FAX 0044 977 5582
WWW.THORNEANDDERRICK.CO.UK



ELECTRIC INTERLOCK VERSION
EXTRA LOW VOLTAGE SAFETY SYSTEM (SELV)

Surface mounting

Rated operating voltage <50V

Reference standards: IEC 60309-1 and IEC 60309-2

- Approvals: from page 535
- Systems: ADVANCE 136 and ADVANCE HD (page 270)

VERSION WITH SAFETY TRANSFORMER

- SELV Transformer 220/24V~ - 150VA (continuous power)
- Extra Low power safety
- With a micro-switch that provides electric interlock and operates on the transformer primary

Compact (module 106)

- Cable gland M25

SOCKET	DESCRIPTION	COLOUR	h	RATED VOLTAGE	PACK QTY.	IP44 CAT.NO.	IP67 CAT.NO.
2P - 16A	Normal		-	24V~	1/10	565.2416	565.2416/S
	Heavy Duty		-	24V~	1/10	566.2416	566.2416/S

The electric interlock is activated by the insertion of the plug.

LARGE (module 136)

- Cable gland M25
- Protection: 2A primary fuse, 6A secondary

SOCKET	DESCRIPTION	COLOUR	h	RATED VOLTAGE	PACK QTY.	IP44 CAT.NO.	IP67 CAT.NO.
2P - 16A	Normal		-	24V~	1/4	565.2516	565.2516/S
	Heavy Duty		-	24V~	1/4	566.2516	566.2516/S

The electric interlock is activated by the insertion of the plug.

VERSION WITH EN 50022 RAIL (4 DIN MODULES)

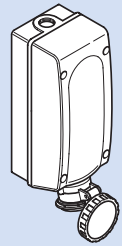
- Without transformer
- With a micro-switch that can be connected to relays for the electric interlock
- Protections: to be installed on DIN rail
- Version particularly suitable for extra low voltage systems with main transformer

Compact (module 106)

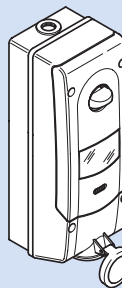
- Cable gland M25

SOCKET	DESCRIPTION	COLOUR	h	RATED VOLTAGE	PACK QTY.	IP44 CAT.NO.	IP67 CAT.NO.
2P - 16A	Normal		-	20-25V~	1/10	565.2420	565.2420/S
			12	40-50V~	1/10	565.2421	565.2421/S
	Heavy Duty		-	20-25V~	1/10	566.2420	566.2420/S
			12	40-50V~	1/10	566.2421	566.2421/S
2P - 32A	Normal		-	20-25V~	1/10	565.2432	565.2432/S
			12	40-50V~	1/10	565.2433	565.2433/S
	Heavy Duty		-	20-25V~	1/10	566.2432	566.2432/S
			12	40-50V~	1/10	566.2433	566.2433/S

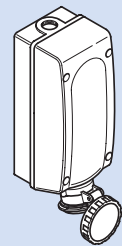
The electric interlock is activated by the insertion of the plug.



IP67



IP44

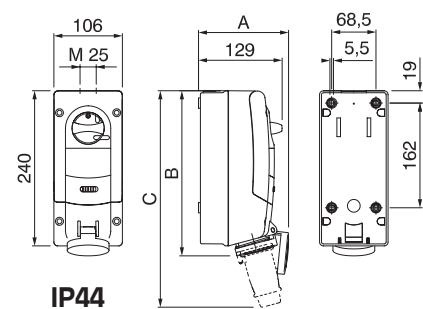


IP67



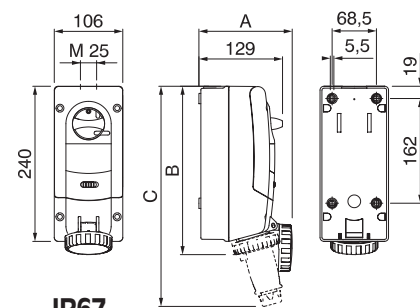
RATED OPERATING VOLTAGE >50V

COMPACT VERSION



IP44

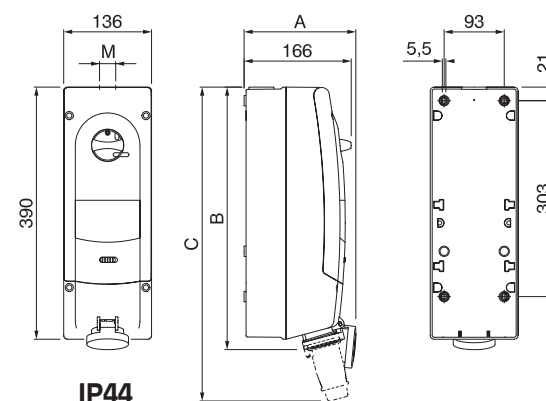
	A	B	C
2P+E 16A	140	256	335
3P+E 16A	146	256	341
3P+N+E 16A	157	256	355
2P+E 32A	158	267	364
3P+E 32A	158	267	364
3P+N+E 32A	158	265	370



IP67

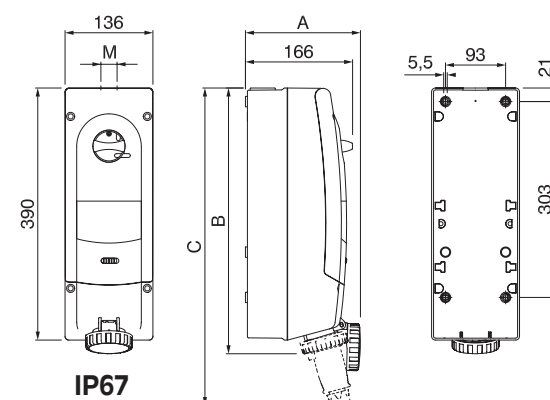
	A	B	C
2P+E 16A	145	261	341
3P+E 16A	152	261	350
3P+N+E 16A	163	262	368
2P+E 32A	164	272	377
3P+E 32A	164	272	377
3P+N+E 32A	167	272	385

LARGE VERSION



IP44

	A	B	C	M
2P+E 16A	166	406	486	25
3P+E 16A	180	406	492	25
3P+N+E 16A	190	406	506	25
2P+E 32A	199	416	513	25
3P+E 32A	199	416	513	25
3P+N+E 32A	199	419	519	25

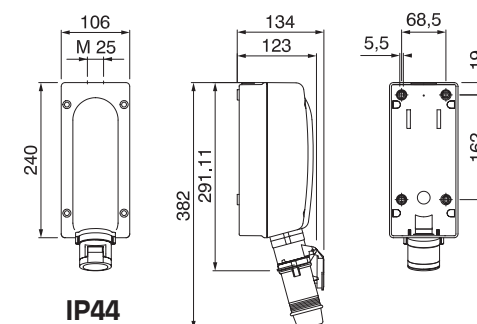


IP67

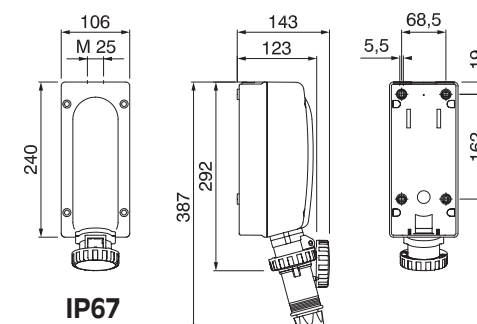
	A	B	C	M
2P+E 16A	166	412	492	25
3P+E 16A	186	412	500	25
3P+N+E 16A	197	412	518	25
2P+E 32A	205	420	526	25
3P+E 32A	205	420	526	25
3P+N+E 32A	207	420	533	25
63A	211	439	610	40

RATED OPERATING VOLTAGE <50V

COMPACT VERSION

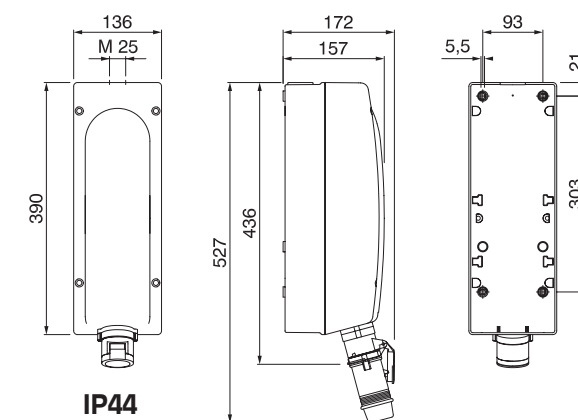


IP44

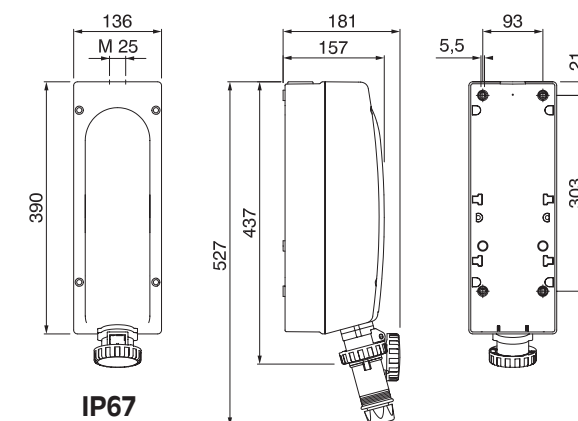


IP67

LARGE VERSION



IP44



IP67



Plugs and sockets



Adaptors



Domestic cable reels



Lampholders



TV & Phone



Plates and devices



Enclosures



Plugs and sockets



Interlocked sockets



Switchgear



Light fittings



Distribution assemblies



Adaptors



Industrial cable reels



Accessories



Wire connectors



Conduits



Trunking



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