



MARECHAL
 ***electric***



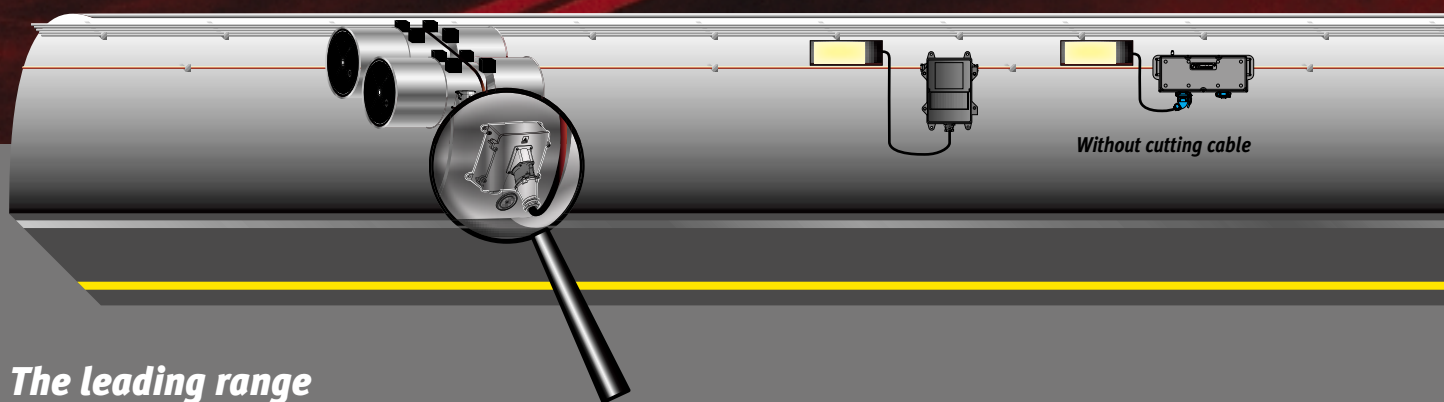
Products for

***Tunnel
Applications***

Boxes and Socket-outlets for tunnel applications

*Connectors for **smoke extraction fans**
(page 4)*

*Boxes for **emergency lighting**
(page 5 to 7)*



The leading range

MARECHAL ELECTRIC is a leading supplier of electric accessories for tunnels. Based on a technology designed for such difficult environments and allowing quick and safe disconnection of electrical equipment, MARECHAL ELECTRIC

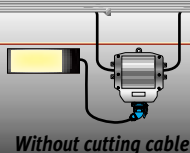
has already equipped more than 700 Km of underground roads and railroads...

We always strive to provide user safety to optimise maintenance and to make the work of the emergency services easier.

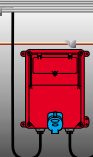
Compliance, Safety and Innovation!

*Boxes for lighting devices
(page 8 to 10)*

*Fire department tunnel boxes
(page 11)*



Without cutting cable



Main references and associated connectors (page 12 to 15)

Always at the state of the Art

MARECHAL ELECTRIC equipment complies with international standards and are certified by inspection authorities, to ensure a very high safety level.

MARECHAL ELECTRIC constantly develops products to meet client's requirements, ensuring that maintenance periods are

minimised while maintaining a high level of safety. We have just released the first connector specifically designed for smoke extraction fans as well as a new range of halogen free thermoplastic enclosures.

Smoke extraction fans

Fire rated connector



Part Number:
Socket = **3934013Z** + suffix
Plug = **3938013Z** + suffix

References
page 12

NEW

400°C Wall mounting socket-outlet

Up to now, no connector complied with the IEC/ EN 12101-3 standard, smoke extraction devices were directly wired, leading to expensive maintenance periods. The new Marechal connector, with its **on-load breaking capacity** now reduces the time to isolate and disconnect a fan to just seconds.

Mounted on aluminium boxes, the 3P+E 63A / 690V connector withstands 400°C for 2 hours. The main cable, after cutting and stripping, feeds through cable glands and is wired on steel terminals mounted on a fire rated ceramic base. The socket-outlet is prewired to the same terminals with a 16 mm² fire resistant cable.

Specification
400°C stainless steel connector with integral switching device (load breaking capacity AC22

according to IEC EN 60947-3 standard). Equipped with silver-nickel butt-contacts and with metallic braid.

Features

- Watertightness according to IEC EN 60529 standard: **IP55**
- Shock resistance according to IEC EN 50102 standard: **IK09**
- Fire resistance: **Electrical continuity tested to 400°C in test house** with temperature increases according to N°5 test procedure of IEC EN 12101-3 standard.
- Complies with clauses 5.3 and 5.4 of the IEC EN 60204-1 standard (Safety of machinery – electrical equipment of machines – Part 1 – General requirements) and Machine Directive CEE/98/37 dated 22/06/98
- Plug and Socket-outlet load breaking capacity: **AC22** utilisation category according to IEC EN 60947-3 standard
- **CSTB** certificate: N° RS05-026

Material

Casing: stainless steel
Socket-outlet and plug interiors: high temperature material
Terminals: steel

Boxes: aluminium
Captive Screws: stainless steel

Supply circuit

Cable: single pole or multipole cable
Conductor sizes: 4 x 16 mm² to 3 x 70 mm² for the box and 16 mm² for the plug

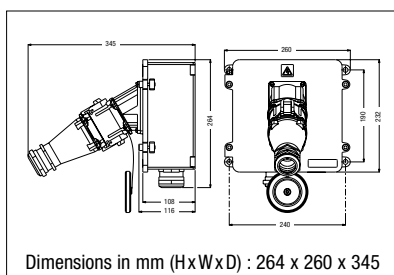
Terminals: 3 to 4

External earth connection

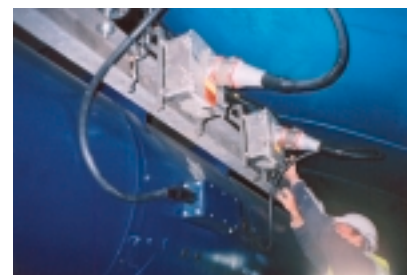
Usually with a steel threaded rod or a Marechal earth terminal, for bare copper conductor of 70 mm² maximum cross section.

Modularity – Option – Other equipment

Capacitor for power factor correction



Dimensions in mm (HxWxD) : 264 x 260 x 345



Emergency lighting

Fire rated distribution boxes without cutting main cable



NEW

Watertight IP66 Thermoplastic Boxes

This innovative enclosure features **very lightweight materials** coupled with **rapid installation**. Made of thermoplastic materials, it is equipped

with 316 stainless steel platinum and allows junction and distribution without cutting fire rated cable (e.g. type CR1-C1).

Main cable conductors are installed on steel terminals **without the need to cut and strip**. Those terminals are an insulation piercing style, mounted on a fire-rated ceramic base.

Part Number:
92946 + suffix

Specification

Halogen free thermoplastic fire rated (category M1) box, IP66, distribution without the need to cut and strip the mains cable. IP 66/67 connectors are equipped with silver butt-contacts and with metallic braid.

References
page 12

Features

- Watertightness according to IEC EN 60529 standard: **IP66**
- Shock resistance according to IEC EN 50102 standard: **IK08**
- Fire resistance: **Electrical continuity guaranteed to 920°C**
Temperature increases according to ISO curve as defined in NFC C32-070 standard and P3 classification according to IEC EN 50 200 standard
- **CSTB** certificate: N° RS05-172

Material

Enclosure: Halogen free (VO) thermoplastic, low smoke release, low toxicity (category M1)
Platinum: 316 Stainless steel
Captive screws: stainless steel
Spring-assisted tightening terminals: zinc coated steel

Supply circuit

Cable: single pole or multipole cable
Conductor size: 4 mm² to 35 mm² stranded cable (max. exterior diameter 28mm)

Terminals: 3 to 5

External earth connection

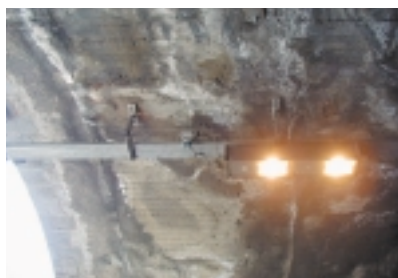
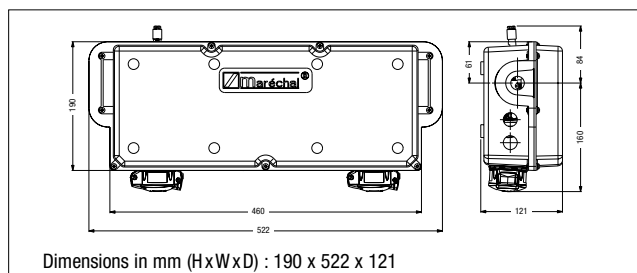
Usually with a steel threaded rod or a Marechal earth terminal, for bare copper conductor of 70 mm² maximum cross section.

Distribution

Poly cable gland: 4 maximum
Marechal socket-outlet: 4 maximum
Protection by fuses mounted on seatite base

Modularity – Option – Other equipment

MARECHAL ELECTRIC can supply cable coupler, standard or halogen free cable, additional DIN rail terminal blocks and circuit breaker protection on request.



Emergency lighting

Fire-rated distribution boxes

Watertight IP66 Cast Iron Box

Those boxes are used for jointing main cables and providing service tap-offs (*CR1-C1 cable*). They comprise a base box with a removeable cover fitted with captive stainless steel screws and a silicone seal.

The main cable, after cutting and stripping, is glanded off and conductors are terminated on the CRIC terminals. These spring-assisted terminals are mounted on a fire-resistant ceramic base.

Main features

Features

- Watertightness according to IEC EN 60529 standard: **IP66**
- Shock resistance according to IEC EN 50102 standard: **IK09**
- Fire withstand: **Electrical continuity guaranteed to 920°C in test house**
Temperature increases according to ISO 834 curve of NFC C 32-070 standard.

Material

Cast Iron Box
Captive screws: stainless steel
Surface treatment: Polyester paint coating
Marechal CRIC terminals

Modularity – Option – Other equipment

MARECHAL ELECTRIC can supply cable coupler, standard or halogen free cable, additional DIN rail terminal blocks and circuit breaker protection on request.



Part Number: **92768** + suffix

Supply circuit

Cable: single pole or multipole cable
Conductor size: up to 185 mm²

Terminals: as per specification

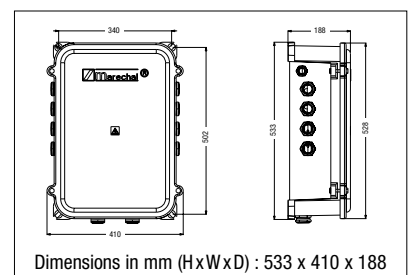
External earth connection

Usually with a steel threaded rod or a Marechal earth terminal, for bare copper conductor of 70 mm² maximum cross section.

Distribution

Metal cable gland or Marechal socket-outlet
Protection by fuses mounted on steatite base

CSTB certificate: N°RS 99-133





Part Number: **91178** + suffix

Supply circuit

Cable: single pole or multipole cable
Conductor size: up to 35 mm²

Terminals: 3 to 5

External earth connection

Usually with a steel threaded rod or a Marechal earth terminal, for bare copper conductor of 70 mm² maximum cross section.

Distribution

Metal cable gland: 3 maximum
Marechal socket-outlets: 3 maximum
Protection by thermal fuses mounted on steatite base

CSTB certificate: N° RS06-023A



Part Number: **91161** + suffix

Supply circuit

Cable: single pole or multipole cable
Conductor size: up to 16 mm²

Terminals: 3 to 5

External earth connection

Usually with a steel threaded rod or a Marechal earth terminal, for bare copper conductor of 70 mm² maximum cross section.

Distribution

Metal cable gland: 2 maximum
Marechal socket-outlets: 2 maximum
Protection by thermal fuses mounted on steatite base (4 maxi.)

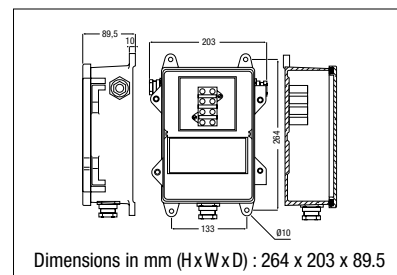
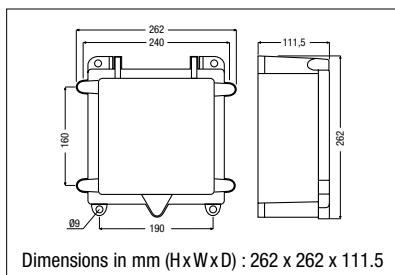
CSTB certificate: N° RS06-023B

References page 13

Specification

Cast iron box IP66 with fuses mounted on steatite base and connector IP 66/67 with silver

butt-contact and metallic braid, bayonet locking and 4 fixing points.



Standard lighting

Distribution boxes without cutting main cable



NEW

Watertight IP66 Thermoplastic Boxes

This innovative enclosure features **very light-weight materials** coupled with **rapid installation**.

The main cable conductors are installed without the need for cutting and stripping by means of **insulation piercing terminals**. The actual cable connections can be made outside of the enclosure.

Up to four service outlets can be provided, either as cable glands, Marechal PN socket-outlets or Marechal DSN decontactors.

Part number:
93036 + suffix

References
page 14

Specification

Halogen free thermoplastic box, IP66, distribution without the need to cut and strip the mains cable. IP 66/67 connectors are equipped with silver butt-contact with metallic braid.

Features

- Watertightness according to IEC EN 60529 standard: **IP66**
- Shock resistance according to IEC EN 50102 standard: **IK08**

Material

Enclosure: Halogen free (V0) thermoplastic
Captive screws: stainless steel

Supply circuit

Cable: single pole or multipole cable
Conductor size: 4mm² to 35mm² stranded cable (max. exterior diameter 28mm)

Terminals: 3 to 5

External earth connection

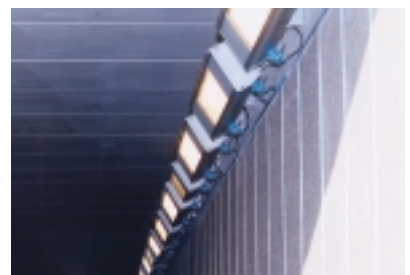
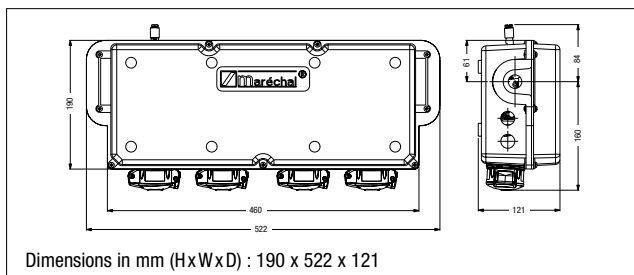
Usually with a steel threaded rod or a Marechal earth terminal, for bare copper conductor of 70 mm² maximum cross section.

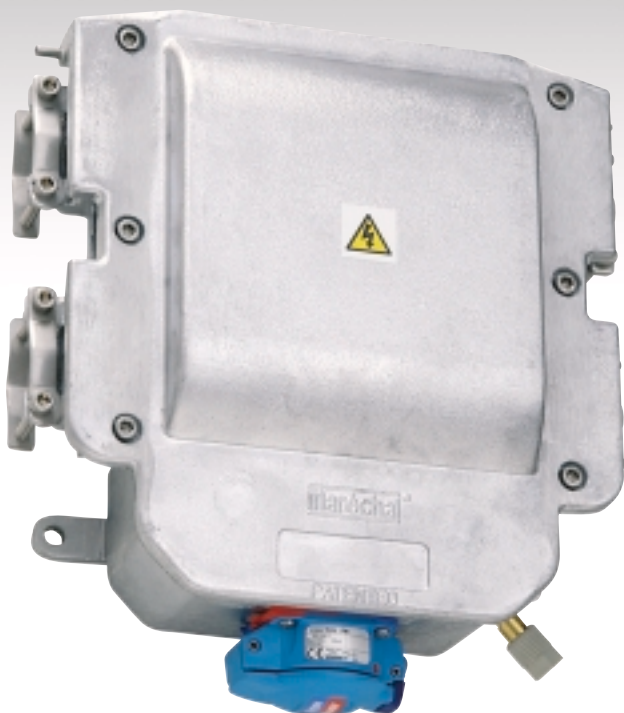
Distribution

Poly cable gland: 4 maximum
Marechal socket-outlet: 4 maximum
Protection by circuit breakers or fuses.

Modularity – Option – Other equipment

MARECHAL ELECTRIC can supply cable coupler, standard or halogen free cable, additional DIN rail terminal blocks and circuit breaker protection on request.





Part number:
01N4017020Eo

References
page 14

Specification

Aluminium box, IP66, distribution without cutting and fastening main cable on the box. IP 66/67 connectors are equipped with silver butt-contact with metallic braid and bayonet locking.



Part number:
01N4015010Eo

Watertight IP66 EXPRESS® Box in Aluminium

Made of aluminium with 2 seals, these boxes permit termination of one or two supply feeds.

The main cable conductors are installed without the need for cutting and stripping by means of **insulation piercing terminals**. The actual cable connections can be made outside of the enclosure.

Specific entries allow automatic cable positioning and perfect watertightness.

Features

- Watertightness according to IEC EN 60529 standard: **IP66**
- Shock resistance according to IEC EN 50102 standard: **IK09**

Material

Enclosure: cast aluminium
Captive screws: stainless steel

Supply circuit

Cable: single-pole or multipole cable
Cross section: 4mm² to 35mm² stranded cable (max exterior diameter 28mm)

Terminals: 3 to 5

External earth connection

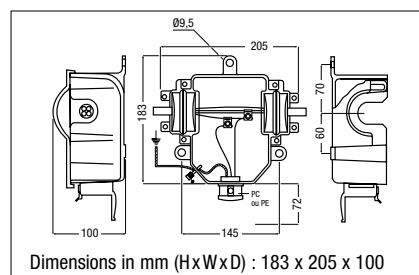
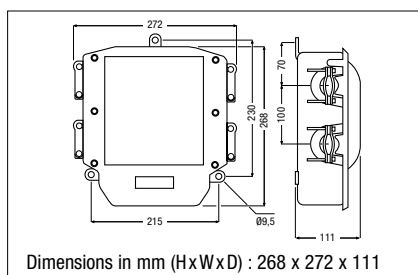
Usually with a steel threaded rod or a Marechal earth terminal, for bare copper conductor of 50 mm² maximum cross section.

Distribution

Metal cable gland: 2 maximum
Marechal socket-outlet: 1 to 2 maximum
Protection by circuit breakers or fuses.

Modularity – Option – Other equipment

MARECHAL ELECTRIC can supply cable coupler, standard or halogen free cable, additional DIN rail terminal blocks and circuit breaker protection on request.



Standard lighting

Distribution boxes



Part number:
509ACP2 + suffix

Sealed by a continuous seal, these boxes allow main lines branching and distribution. The main cable is fed through cable glands and is connected on terminals mounted on DIN rail.



Part number:
91234 + suffix

References
page 15

IP66 Thermoplastic Box

Features

- Watertightness according to IEC EN 60529 standard: **IP66**
- Shock resistance according to IEC EN 50102 standard: **IK08**

Material: Halogen free thermoplastic enclosure. Stainless steel captive screws.

Supply circuit

Cable: single-pole or multipole cable
Conductor size: up to 10mm²

External earth connection

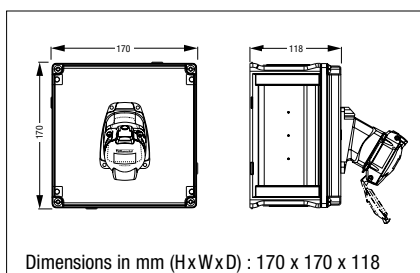
Usually with a steel threaded rod or a Marechal earth terminal, for bare copper conductor of 50 mm² maximum cross section

Distribution

Poly cable gland: 2 maximum
Marechal socket-outlet: 1 (fitted on front cover).
Protection by fuses or circuit breakers

Modularity – Option – Other equipment

MARECHAL ELECTRIC can supply cable coupler, standard or halogen free cable, additional DIN rail terminal blocks, circuit breaker protection and Marechal CRIC terminals on request..



IP65 Polyester Box

Features

- Watertightness according to IEC EN 60529 standard: **IP65**
- Shock resistance according to IEC EN 50102 standard: **IK08**

Material: Polyester Valox type enclosure. Stainless Steel captive screws.

Supply circuit

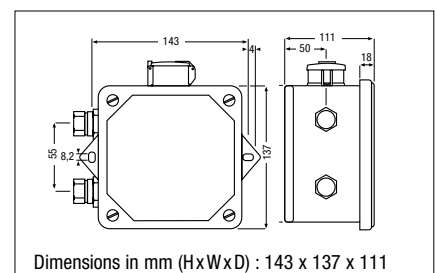
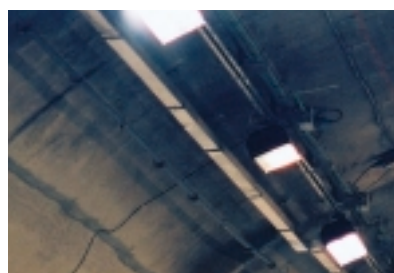
Cable: single-pole or multipole cable
Conductor size: up to 6mm²

External earth connection

Usually with a steel threaded rod or a Marechal earth terminal, for bare copper conductor of 16 mm² maximum cross section

Branch configuration

Poly cable gland: 2 maximum
Marechal socket-outlet: 1 (fitted on front cover or on side).
Protection by fuses or circuit breakers



Security Recess

Fire department box



Part number:
91277 + suffix

References
page 15

Specification

IP 55 Aluminium box, IP 54/55 socket-outlet with an integrated switch (load breaking capacity AC22/AC23 according to IEC EN 60947-3) with silver butt-contact and metallic braid

Features

- Watertightness according to IEC EN 60529 standard: **IP55**
- Shock resistance according to IEC EN 50102 standard: **IK09**

Material: Cast aluminium enclosure. Stainless steel captive screws.

Supply circuit

Cable: max 5 x 16 mm²

Terminals: 3 to 5

External earth connection

Usually with a steel threaded rod or a Marechal earth terminal, for bare copper conductor of 70 mm² maximum cross section

Watertight IP55 Aluminium Boxes

Especially developed in collaboration with **emergency services** who specialise in tunnel rescue, this box is installed in a security recess.

Completely made of aluminium, this box is composed of a back box, an inclined cover with an **inspection window**.

One or two Marechal Decontactors can be fit on the inclined cover and are protected by a differential circuit breaker.

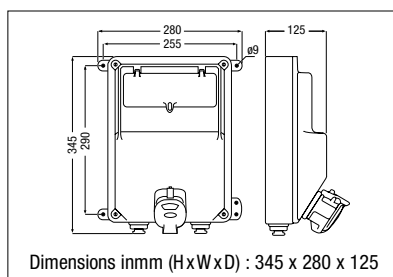


Distribution

Up to 2 Marechal socket-outlets, DS or DN type. Connection of the power cable on terminal blocks mounted on DIN rail or directly on to the protection device. Protection: By circuit breaker mounted on DIN rail, accessible through a metal window.

Modularity – Option – Other equipment

Optional protection devices available on request



Main References

Marechal Electric has already equipped many underground tunnels: Paris subway, French road tunnel, Ponchartrain tunnel, La Villette tunnel, La croix rousse tunnel, Lyon ring, Mont Blanc tunnel, Monaco railroad tunnel, Frejus tunnel, Lecco tunnel, Montepergola tunnel, Blackwall tunnel, Dartford tunnel, Mersey tunnel, Liege tunnel, Cairo tunnel, etc...

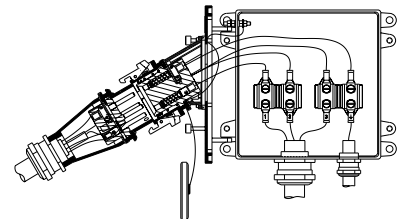


In the following pages, we list some part numbers as used for those applications. Please contact us for other requirements.



Part number: **3934013Z** + suffix

Features: see page 4



Part number: 3934013Z0144

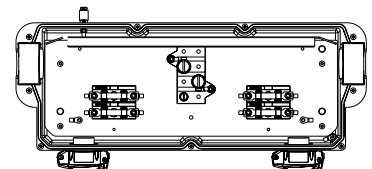
Suffix	In / Out*	Tightening	Cross section	Distribution by ...
0139	M32 metal cable gland + M25 m. cable gland (Earth)	16 - 24 mm + 10 - 18 mm	up to 16 mm ² **	1 DS3 63 A 3P+E socket-outlet mounted on the cover
0144	M40 metal cable gland + M25 m. cable gland (Earth)	22 - 32 mm + 10 - 18 mm	up to 16 mm ² **	1 DS3 63 A 3P+E socket-outlet mounted on side
0140	M32 metal cable gland + M25 m. cable gland (Earth)	16 - 24 mm + 10 - 18 mm	up to 16 mm ² **	1 DS3 63 A 3P+E socket-outlet mounted on the cover
0112	M50 metal cable gland + M25 m. cable gland (Earth)	34 - 44 mm + 10 - 18 mm	up to 16 mm ² **	1 DS3 63 A 3P+E socket-outlet mounted on the cover

* main cable **earth terminal mounted on back box + 16 mm² high temperature wire



Part number: basic part number **92946** + suffix

Features: see page 5



Part number: 92946NX2

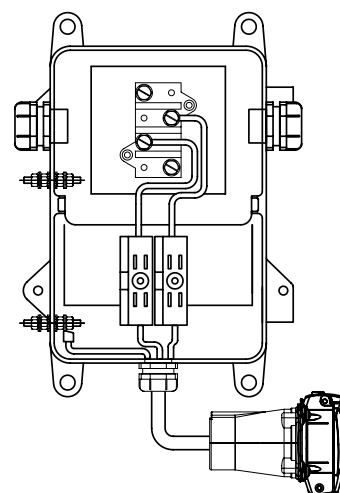
Suffix	In / Out*	Cross section	Protection	Distribution by ...
NX2	3x4 mm ² to 5x35 mm ²	Steel terminal up to 35 mm ²	Fuses	2 PN 1P+N+E socket-outlets
NX3	3x4 mm ² to 5x35 mm ²	Steel terminal up to 35 mm ²	Fuses	3 PN 1P+N+E socket-outlets
NX4	3x4 mm ² to 5x35 mm ²	Steel terminal up to 35 mm ²	Fuses	4 PN 1P+N+E socket-outlets
AX2	3x4 mm ² to 5x35 mm ²	Steel terminal up to 35 mm ²	Fuses	2 M20 poly cable glands
AX3	3x4 mm ² to 5x35 mm ²	Steel terminal up to 35 mm ²	Fuses	3 M20 poly cable glands
AX4	3x4 mm ² to 5x35 mm ²	Steel terminal up to 35 mm ²	Fuses	4 M20 poly cable glands

* main cable



Part number: **91161** + suffix

Features: see page 6 and 7



Part number: 91161N387

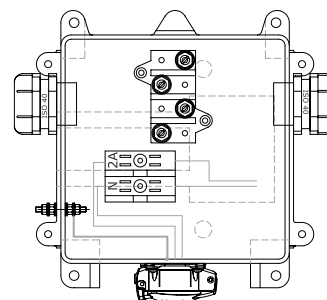
Suffix	In / Out*	Tightening	Cross section	Protection	Distribution by ...
N376	1 M20 fire cable gland	7 - 13 mm	up to 16 mm ²	Fuses	1 PN 1P+N+E socket-outlet
N367	1 M25 fire cable gland	10 - 18 mm	up to 16 mm ²	Fuses	1 PN 1P+N+E socket-outlet
N386	1 M32 fire cable gland	16 - 24 mm	up to 16 mm ²	Fuses	2 PN 1P+N+E socket-outlets
N387	1 M25 fire cable gland	10 - 18 mm	up to 16 mm ²	Fuses	1 M20 metal cable gland**
A379	1 M25 fire cable gland	10 - 18 mm	up to 16 mm ²	Fuses	1 M20 metal cable gland
A388	1 M32 fire cable gland	16 - 24 mm	up to 16 mm ²	Fuses	2 M20 metal cable glands

* main cable ** + 1.5 m cable + 1 cable coupler PN 1P+N+E



Part number: **91178** + suffix

Features: see page 6 and 7



Part number: 91178N88

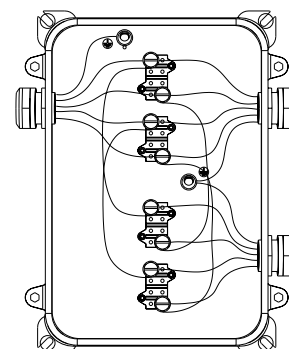
Suffix	In / Out*	Tightening	Cross section	Protection	Distribution by ...
N170	1 M32 fire cable gland	16 - 24 mm	up to 35 mm ²	Fuses	1 PN 1P+N+E socket-outlet
N88	1 M40 fire cable gland	22 - 32 mm	up to 35 mm ²	Fuses	1 PN 1P+N+E socket-outlet
N171	1 M40 fire cable gland	22 - 32 mm	up to 35 mm ²	Fuses	2 PN 1P+N+E socket-outlets
A172	1 M32 fire cable gland	16 - 24 mm	up to 35 mm ²	Fuses	1 M20 metal cable gland
A159	1 M40 fire cable gland	22 - 32 mm	up to 35 mm ²	Fuses	1 M20 metal cable gland
A158	1 M50 fire cable gland	34 - 44 mm	up to 35 mm ²	Fuses	3 M20 metal cable glands

* main cable



Part number: basic part number **92768** + suffix

Features: see page 6 and 7



Part number: 92768AX

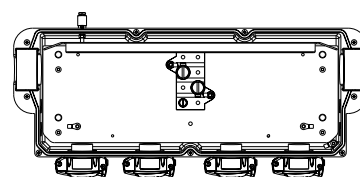
Suffix	In / Out*	Tightening	Cross section	Protection	Distribution by ...
A2	1 M50 fire cable gland	34 - 44 mm	up to 185 mm ²	Fuses	1 M25 fire cable gland
A4	3 M32 fire cable glands	16 - 24 mm	up to 185 mm ²	Fuses	2 M25 fire cable glands
AX	1 M63 fire cable gland	40 - 52 mm	up to 185 mm ²	Fuses	1 M63 fire cable glands

* main cable



Part number: **93036** + suffix

Features: see page 8



Part number: 93036NX4

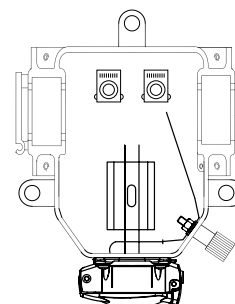
Suffixe	In / Out*	Wiring by ...	Protection	Distribution by ...
NX2	3x4 mm ² to 5x35 mm ²	Insulation piercing terminals		2 PN 1P+N+E sockets
NX3	3x4 mm ² to 5x35 mm ²	Insulation piercing terminals		3 PN 1P+N+E sockets
NX4	3x4 mm ² to 5x35 mm ²	Insulation piercing terminals		4 PN 1P+N+E sockets
AX2	3x4 mm ² to 5x35 mm ²	Insulation piercing terminals	Fuses	2 M20 poly cable glands
AX3	3x4 mm ² to 5x35 mm ²	Insulation piercing terminals	Fuses	3 M20 poly cable glands
AX4	3x4 mm ² to 5x35 mm ²	Insulation piercing terminals	Fuses	4 M20 poly cable glands

* main cable



Part number: **01N4015** + suffix

Features: see page 9



Part number: 01N4015010E0

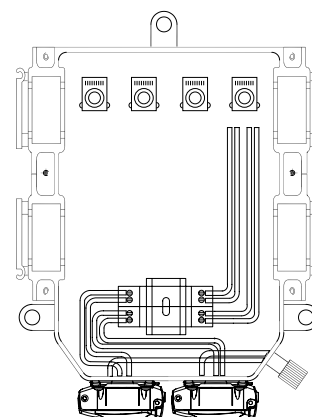
Suffixe	In / Out*	Wiring by ...	Protection	Distribution by ...
010E0	3x4 mm ² to 5x35 mm ²	Insulation piercing Terminals		1 PN 1P+N+E socket
012E0	3x4 mm ² to 5x35 mm ²	Insulation piercing Terminals	Fuses	1 PN 1P+N+E socket
A10E0	3x4 mm ² to 5x35 mm ²	Insulation piercing Terminals		1 M20 metal cable gland
A14E0	3x4 mm ² to 5x35 mm ²	Insulation piercing Terminals	Fuses	1 M20 metal cable gland

* main cable



Part number: **01N4015** or **01N4017** + suffix

Features: see page 9



Part number: 01N4015222E0

Suffixe	In / Out*	Wiring by ...	Protection	Distribution by ...
020E0	3x4 mm ² to 5x35 mm ²	Insulation piercing Terminals		1 PN 3P+N+E socket
220E0	3x4 mm ² to 5x35 mm ²	Insulation piercing Terminals		2 PN 1P+N+E sockets
222E0	3x4 mm ² to 5x35 mm ²	Insulation piercing Terminals	Fuses	2 PN 1P+N+E sockets
A20EA	3x4 mm ² to 5x35 mm ²	Insulation piercing Terminals		2 M20 metal cable glands

* main cable

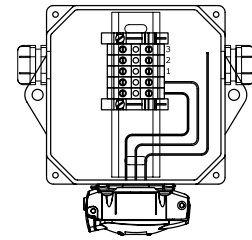


Part number: **91234** + suffix

Features: see page 10

Suffix	In / Out*	Tightening	Cross section	Distribution by ...
A38	1 M32 poly cable gland	18 - 25 mm	up to 6 mm ²	1 M20 poly cable gland
N39	1 M20 poly cable gland	6 - 12 mm	up to 6 mm ²	1 PN 1P+N+E socket

* main cable



Part number: 91234N39

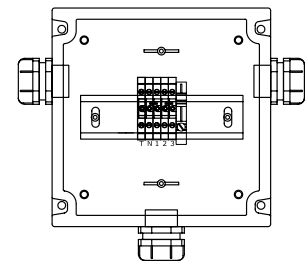


Part number: **509ACP2** + suffix

Features: see page 10

Suffix	In / Out*	Tightening	Cross section	Distribution by ...
Z0274	1 M25 poly cable gland	13 - 18 mm	up to 6 mm ²	1 PN 3P+N+E socket
Z0283	1 M32 poly cable gland	18 - 25 mm	up to 10 mm ²	1 PN 2P+E socket
Z0360	1 M25 poly cable gland	13 - 18 mm	up to 4 mm ²	3 M20 poly cable glands
Z0363	1 M25 poly cable gland	13 - 18 mm	up to 4 mm ²	1 M25 poly cable gland

* main cable



Part number: 509ACP2Z0363

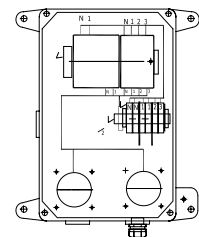


Part number: **91277** + suffix

Features: see page 11

Suffix	In / Out*	Tightening	Cross section	Protection	Distribution by ...
A24	1 M25 metal cable gland	10 - 18 mm	up to 10 mm ²	2 MCB 30 mA	1 DS1 3P+N+E socket & 1 DS1 1P+N+E socket
A46	1 M32 metal cable gland	16 - 24 mm	up to 10 mm ²	2 MCB 30 mA	1 DN8 3P+N+E socket & 1 DN8 1P+N+E socket
A37	1 M32 metal cable gland	16 - 24 mm		1 MCB 30 mA	1 DS1 3P+N+E socket

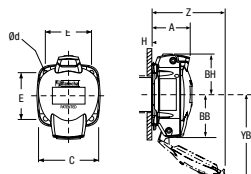
* main cable



Part number: 91277A24

Associated connectors: PN IP66/67

Socket-outlet



Voltage	Polarity	Material	Part number
220 - 250V	1P+N+E	Polyester	01 N4 015

Others voltages, polarities: please contact us

	A	BB	BH	C	D	E	H	YB	Z	ØD
PN SOCKET	37	38.5	36	56	43	42	16	93	42	4.5

We can adapt our enclosures to house other Marechal connectors. Please contact us for assistance

Straight plug (inlet + straight handle)



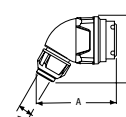
Angled plug (inlet + angled handle)



Inlet



Part number
01 N8 015



Straight handle



Part number

01 NA 013	01 NA 313
------------------	------------------

Angled handle



	A	B	Ø
ANGLED PLUG	100	74	8-17
STRAIGHT PLUG	118	58	8-15

MARECHAL



electric

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