



RETTBOX[®]

USER GUIDE



THORNE &
DERRICK
INTERNATIONAL

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 **MARECHAL**
ELECTRIC

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RETTBOX®



ELECTROMAGNETIC SELF-EJECT DECONTACTOR™



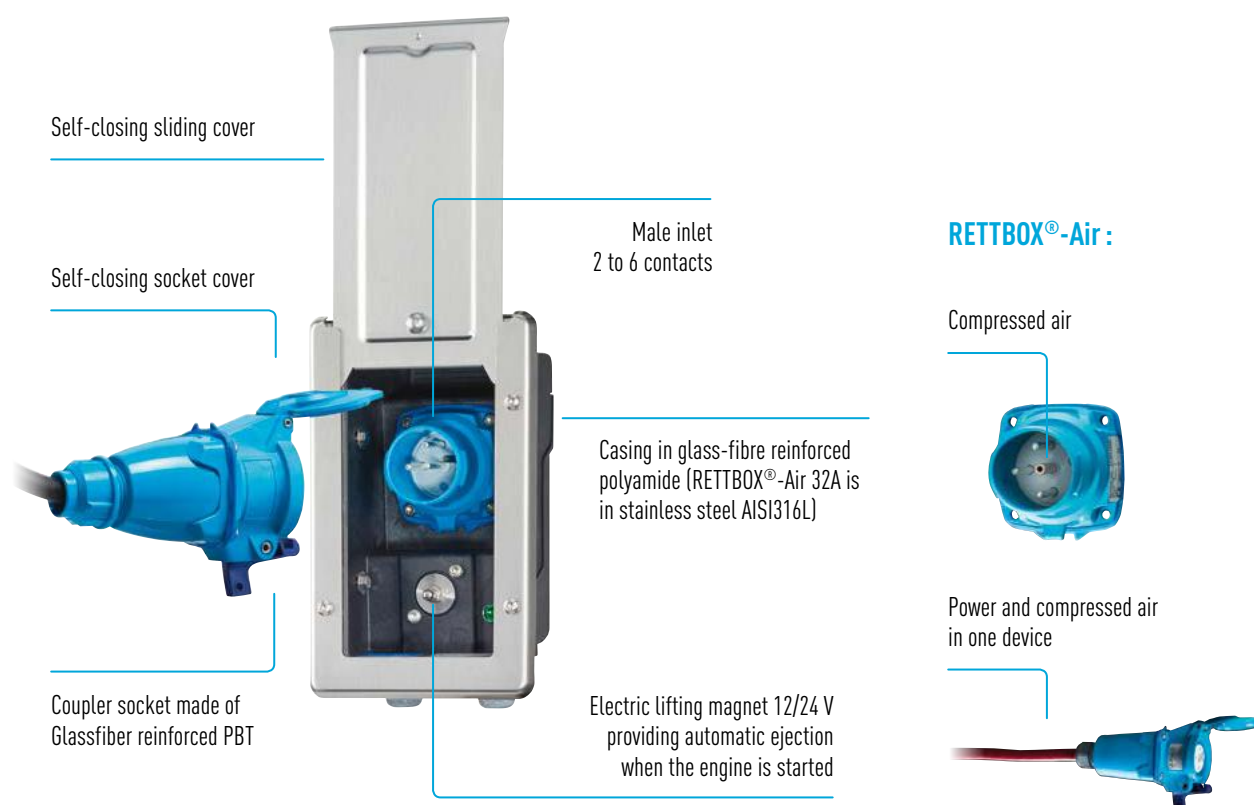
20 A/32 A

- ▶ For all types of emergency vehicles
- ▶ DECONTACTOR™ for power supply with secure/automatic ejection RETTBOX® or power supply with compressed air RETTBOX®-Air
- ▶ AISI 316 L stainless steel housing with electromagnetic coil (12 V DC-24 V DC)
- ▶ Automatic ejection of the coupler socket upon start-up of the vehicle
- ▶ 5 pin connector for Anti-start function
- ▶ Voltage presence indicator
- ▶ RETTBOX®-Air : Compressed air supply up to 13 bar
- ▶ More than 10,000 matings tested (20 A)

MAIN FEATURES

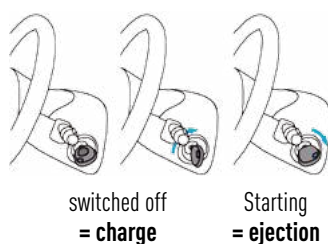
	RETTBOX® (20 A)	RETTBOX®-Air (20 A)	RETTBOX® (32 A)	RETTBOX®-Air (32 A)
Front	stainless steel	stainless steel	stainless steel	stainless steel
Box	glassfiber reinforced polyamide	glassfiber reinforced polyamide	stainless steel	stainless steel
Protection mode (closed cover)	IP55	IP55	IP55	IP55
Self-closing coupler socket	IP55	IP55	IP55	IP55
Front dimensions (LxH) in mm	114 x 184	114 x 184	132 x 188	132 x 188
Cut-out dimensions on vehicle's frame (LxHxP) in mm	83 x 163 x 94	83 x 163 x 94	103 x 173 x 145	103 x 173 x 145
Coupler socket cable supplied	4 m	4 m*	4 m	4 m*
Auxiliary contacts (optional)	2 aux	1 aux	3 aux	3 aux
Weight (excluding coupler socket)	1 200 g	1 200 g	3 200 g	3 200 g
Built-in DECONTACTOR™	20 A	20 A	32 A	32 A
Compressed air duct	no	up to 13 bars	no	up to 13 bars

* with duct for compressed air



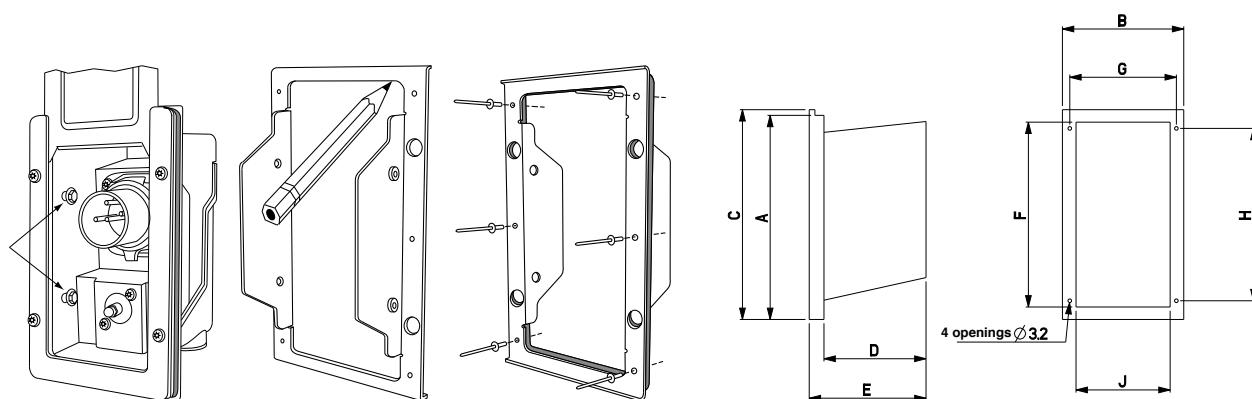
ENSURE SPEED AND SAFETY

- 1 Loading box connected to the electrical system of the vehicle.
- 2 Automatic ejection of the coupler socket upon start-up of the vehicle by way of an electric lifting magnet.
- 3 Protection against water and dust by means of a self-closing cover.



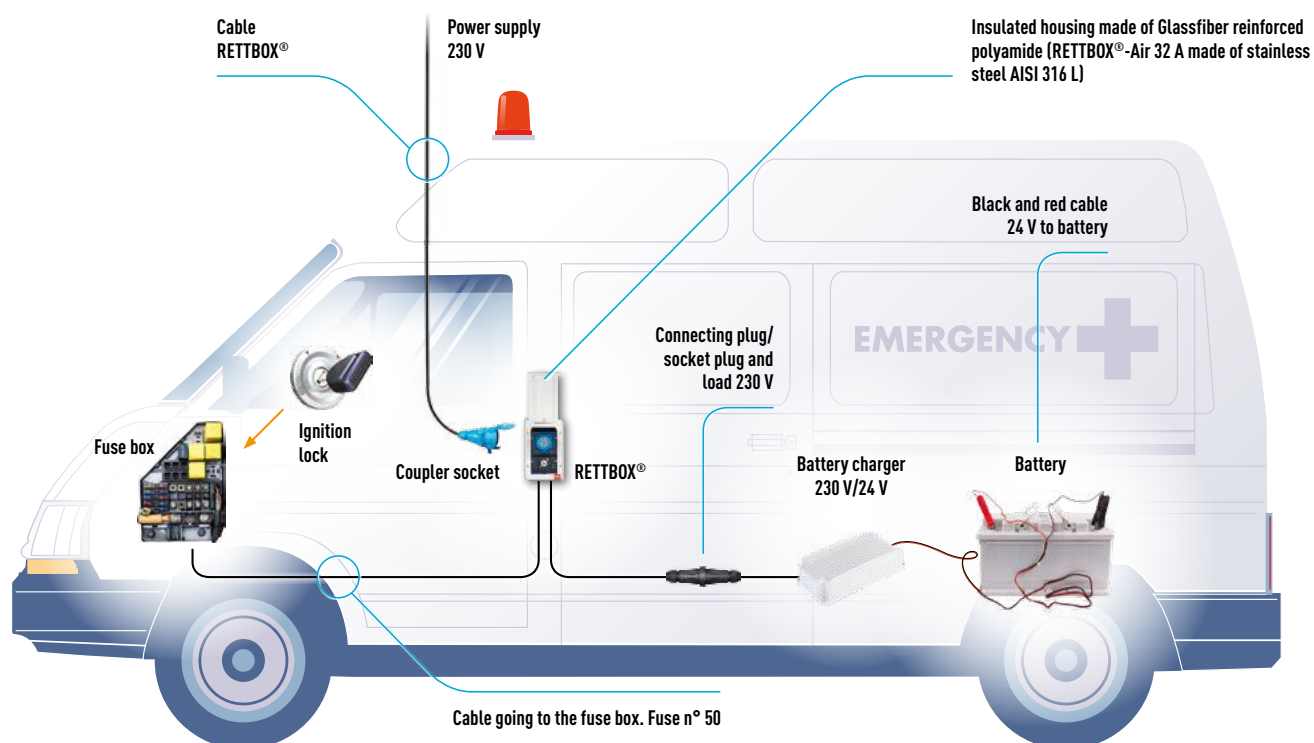


INSTALLATION STEPS & DIMENSIONS



	A	B	C	D	E	F	G	H	J
RETTBOX® 20 A	184	114	184	89	114	163	94	152	83
RETTBOX®-Air 20 A	184	114	184	89	114	163	94	152	83
RETTBOX® 32 A	188	132	197	140	151	173	116	169	103
RETTBOX®-Air 32 A	188	132	197	140	151	173	116	169	103

TYPICAL CONNECTING DIAGRAM RETTBOX®

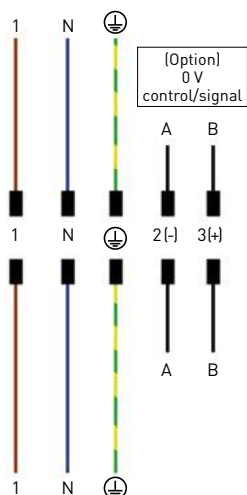




WIRING DIAGRAM/RETTBOX® 20 A



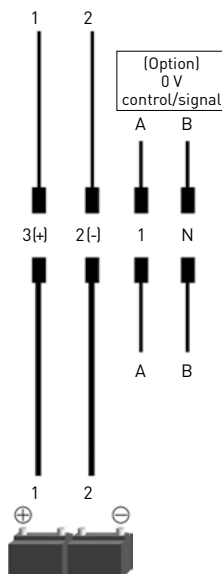
230 V



RETTBOX® 20 A/230 V



12/24 V



RETTBOX® 20 A 12/24 V



• Observe polarity

2 x 1,5 mm² min.



Due to a standardization, it was necessary to determine the color coding of the electric ejection (magnet) as follows:

BLUE = PLUS (+), BROWN = MINUS (-).

Please be sure to observe the polarity, so that the freewheeling diode will not be damaged.



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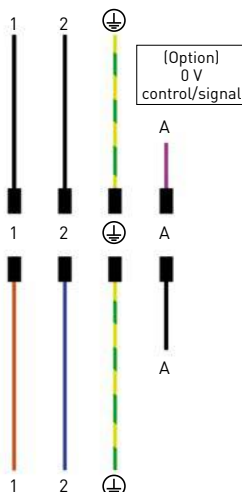
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WIRING DIAGRAM / RETTBOX®-AIR 20 A

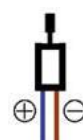
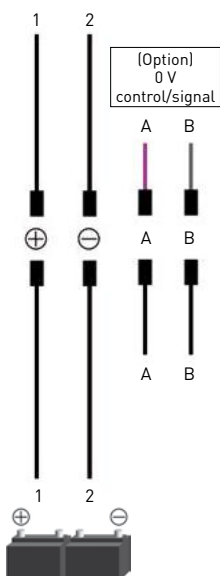


230 V



RETTBOX®-AIR 20 A / 230 V

12/24 V



• Observe polarity

2 x 1,5 mm² min.



Due to a standardization, it was necessary to determine the color coding of the electric ejection (magnet) as follows:

BLUE = PLUS (+), BROWN = MINUS (-).

Please be sure to observe the polarity, so that the freewheeling diode will not be damaged.

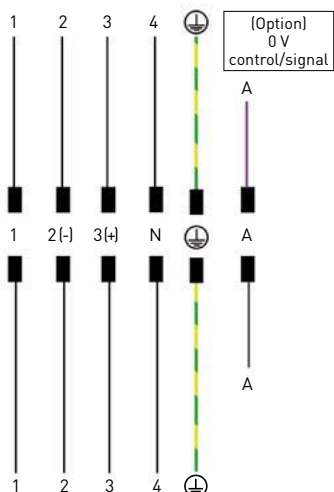
RETTBOX®-AIR 20 A / 24 V



WIRING DIAGRAM/RETTBOX® 32 A



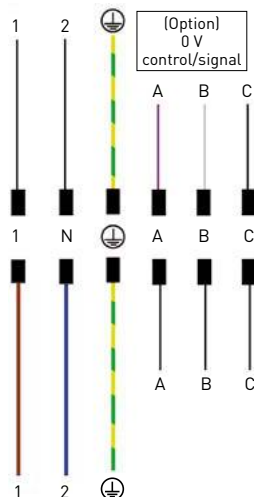
400 V



RETTBOX® 32 A/400 V

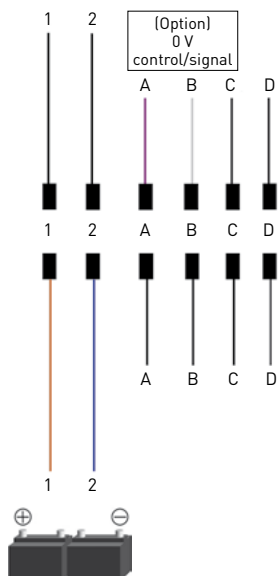


230 V



RETTBOX® 32 A/230 V

24 V



RETTBOX® 32 A/24 V



• Observe polarity

2 x 1,5 mm² min.



Due to a standardization, it was necessary to determine the color coding of the electric ejection (magnet) as follows:

BLUE = PLUS (+), BROWN = MINUS (-).

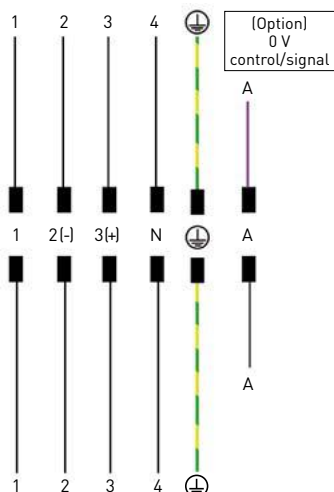
Please be sure to observe the polarity, so that the freewheeling diode will not be damaged.



WIRING DIAGRAM/RETTBOX®-AIR 32 A



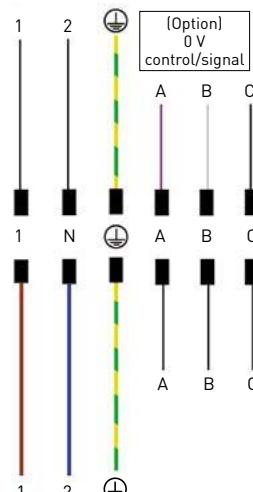
400 V



RETTBOX®-AIR 32 A/400 V

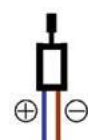
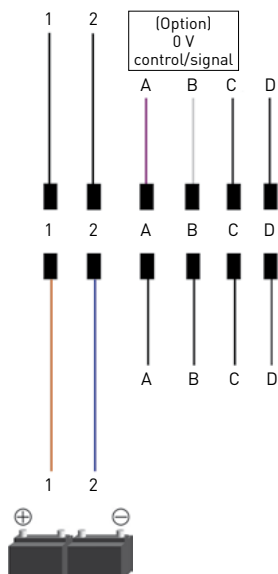


230 V



RETTBOX®-AIR 32 A/230 V

24 V



• Observe polarity

2 x 1,5 mm² min.



RETTBOX®-AIR 32 A/24 V



Due to a standardization, it was necessary to determine the color coding of the electric ejection (magnet) as follows:

BLUE = PLUS (+), BROWN = MINUS (-).

Please be sure to observe the polarity, so that the freewheeling diode will not be damaged.



OPTIONS



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CEILING SUSPENSION SYSTEM

PART NUMBER



(M20) RETTBOX® 20A

611AHUTRRRL

(M25) RETTBOX®-Air 20A

611AHUTAAAL

(M25) RETTBOX® 32A

381AHUTRRRL

(M32) RETTBOX®-Air 32A

381AHUTAAAL

OPTIONAL MOUNTING BOX



RETTBOX®/RETTBOX®-Air

611AAUFBAUA1H

CONNECTING KIT FOR COUPLER SOCKET



RETTBOX®-Air

611AABZ

EXTENSION CORD



Extension cord RETTBOX® 2m CEE 230V
...Other on request

6113015RK2041

RETTBOX®-AIR CLOSED



611AZUU

SLIDING DOOR COLORED



Fire red RAL3000,
other on request

661ATUER



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SPARE PARTS RETTBOX® 20 A



RETTBOX® 20 A, INLET



PART NUMBER
230 V 20 A 1Ph+N+E
6118015RRR
12 V DC 20 A + / -
6118059RRR
24 V DC 20 A + / -
6118089RRR
400 V 20 A 3Ph+N+E
6118017RRR
230 V 20 A 1Ph+N+E+2 aux
6118175RRR

MAGNET FOR RETTBOX® 20 A



12 V
611AMAGRRR12
24 V
611AMAGRRR24

PLUG CONTACT



611A011

SOCKET COUPLER RETTBOX® 20 A WITHOUT CABLE



230 V 20 A 1Ph+N+E
6113015RRR
12 V DC 20 A + / -
6113059RRR
24 V DC 20 A + / -
6113089RRR
400 V 20 A 3Ph+N+E
6113017RRR
230 V 20 A 1Ph+N+E+2 aux
6113175RRR

SOCKET RETTBOX® 20 A



230 V 20 A 1Ph+N+E
6114015RRR
12 V DC 20 A + / -
6114059RRR
24 V DC 20 A + / -
6114089RRR
400 V 20 A 3Ph+N+E
6114017RRR
230 V 20 A 1Ph+N+E+2 aux
6114175RRR

HANDLE FOR RETTBOX® 20 A SOCKET COUPLER



Poly
511P0D18

CORD FOR MANUAL SEPARATION (SOCKET COUPLER)



611AZIE

SOCKET CONTACT



611A021



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SPARE PARTS RETTBOX®-AIR 20 A



RETTBOX®-AIR 20 A, INLET



230 V 20 A 1Ph+N+E access from below	6118015AAAU
230 V 20 A 1Ph+N+E access from behind	6118015AAAH
12 V DC 20 A + / - access from below	6118059AAAU
12 V DC 20 A + / - access from behind	6118059AAAH
24 V DC 20 A + / - access from below	6118089AAAU
24 V DC 20 A + / - access from behind	6118089AAAH

MAGNET FOR RETTBOX®-AIR 20 A



12 V	611AMAGR12
24 V	611AMAGR24

COMPRESSED AIR STICK FOR RETTBOX®-AIR 20 A INLET



611ASTI

STRAIGHT COMPRESSED AIR COUPLER FOR RETTBOX®-AIR 20 A INLET



Straight	611AGER
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ANGLE COMPRESSED AIR COUPLER FOR RETTBOX®-AIR 20 A INLET



Angle	611AWIN
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PLUG CONTACT RETTBOX®-AIR 20 A



611A011

COUPLER SOCKET RETTBOX®-AIR 20 A, WITHOUT CABLE



230 V 20 A 1Ph+N+E	6113015AAA
12 V DC 20 A + / -	6113059AAA
24 V DC 20 A + / -	6113089AAA

SOCKET RETTBOX®-AIR 20 A



230 V 20 A 1Ph+N+E	6114015AAA
12 V DC 20 A + / -	6114059AAA
24 V DC 20 A + / -	6114089AAA

HANDLE FOR COUPLER SOCKET RETTBOX®-AIR 20 A



Poly	511P025P
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CORD FOR MANUAL SEPARATION (SOCKET COUPLER)



611AZIE

COMPRESSED AIR COUPLER FOR RETTBOX®-AIR 20 A SOCKET



611ADRU

SOCKET CONTACT



611A021



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SPARE PARTS RETTBOX® 32 A & RETTBOX®-AIR 32 A



RETTBOX®-AIR 32 A, INLET PART NUMBER



230 V 32 A 1Ph+N+E+3aux	3818187AAA
400 V 32 A 3Ph+N+E+1aux	3818247AAA

MAGNET FOR RETTBOX®-AIR 32 A



12 V	381AMAGAAA12
24 V	381AMAGAAA24

COMPRESSED AIR STICK FOR RETTBOX®-AIR 32 A INLET



381ASTI

STRAIGHT COMPRESSED AIR COUPLER FOR RETTBOX®-AIR 32 A INLET



Straight	381AGER
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PLUG CONTACT RETTBOX®-AIR 32 A



311A011

PLUG AUXILIARY CONTACT RETTBOX®-AIR 32 A



311A011972

COUPLER SOCKET RETTBOX®-AIR 32 A, WITHOUT CABLE



230 V 32 A 1Ph+N+E+3aux	3813187AAA
400 V 32 A 3Ph+N+E+1aux	3813247AAA

SOCKET RETTBOX®-AIR 32 A



230 V 32 A 1Ph+N+E+3aux	3814187AAA
400 V 32 A 3Ph+N+E+1aux	3814247AAA

HANDLE FOR COUPLER SOCKET RETTBOX®-AIR 32 A



Poly	512P032P
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CORD FOR MANUAL SEPARATION (SOCKET COUPLER)



611AZIE

COMPRESSED AIR COUPLER FOR RETTBOX®-AIR 32 A SOCKET



381ADRU

SOCKET CONTACT RETTBOX®-AIR 32 A (SAME ONE FOR AUXILIARIES)



311A021



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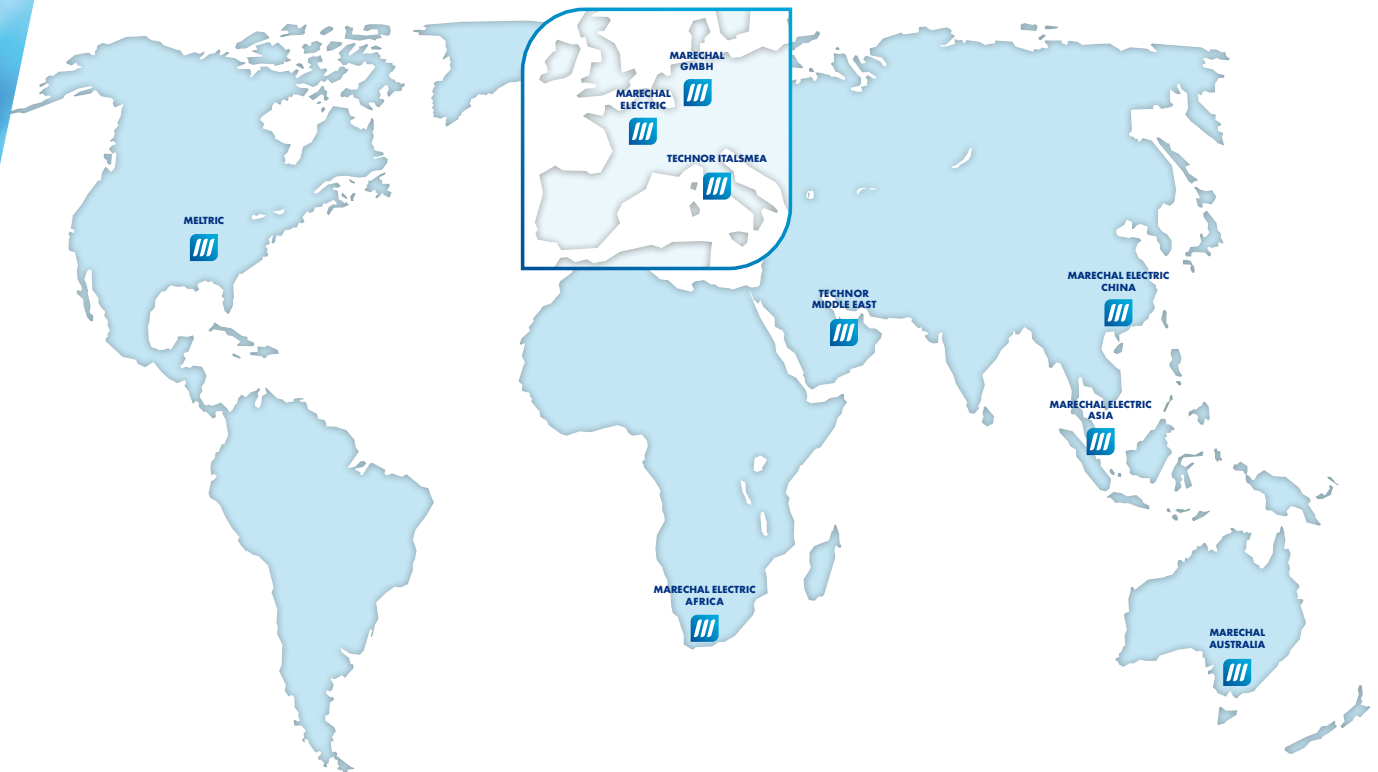
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WORLD PRESENCE



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