



**RETTBOX<sup>®</sup>**  
USER GUIDE

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# RETTBOX®



## ELECTROMAGNETIC SELF-EJECT DECONTACTOR™



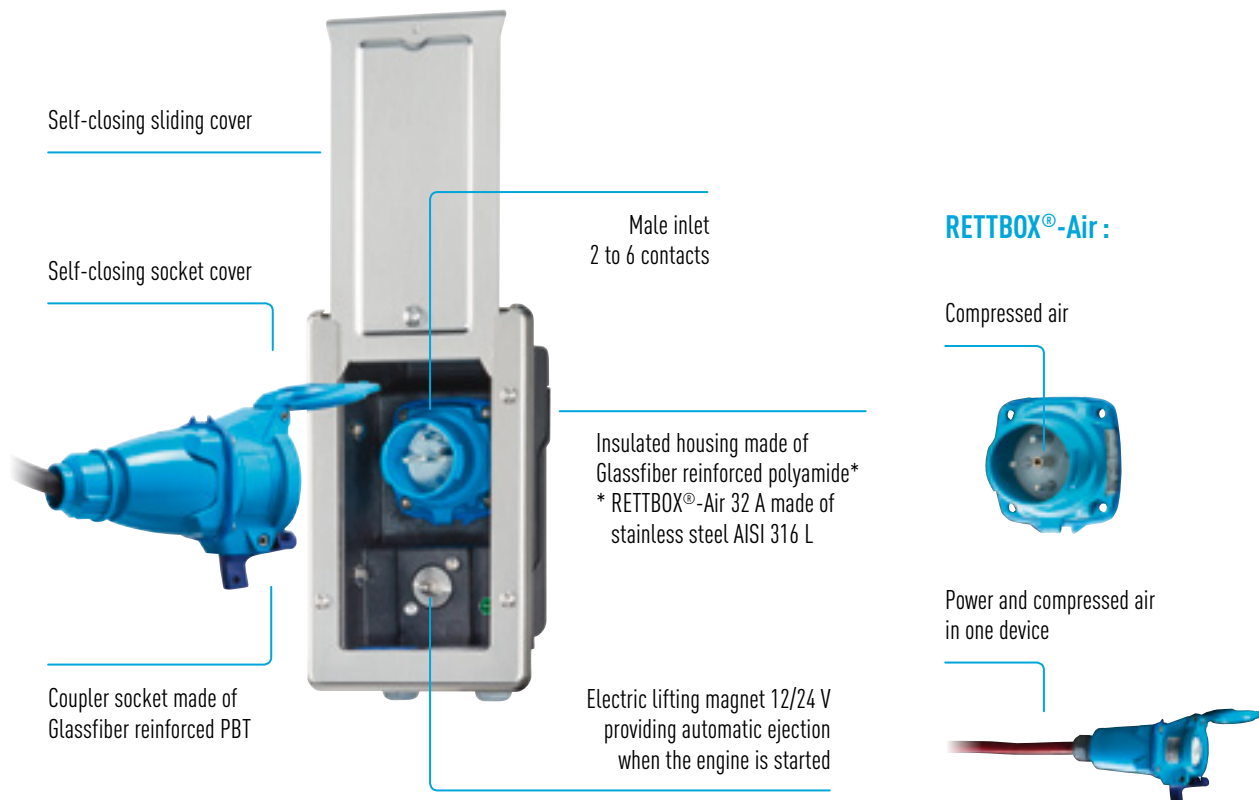
**20 A/32 A**

- ▶ 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

## MAIN FEATURES

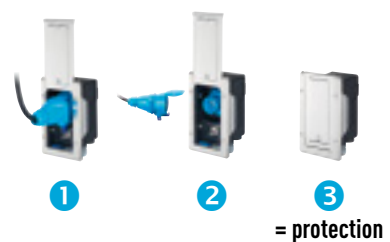
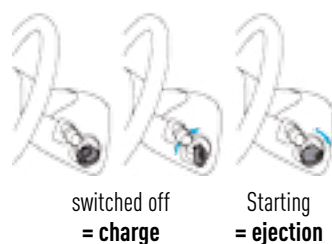
	RETTBOX® (20 A)	RETTBOX®-Air (20 A)	RETTBOX® (32 A)	RETTBOX®-Air (32 A)
Front	stainless steel	stainless steel	stainless steel	stainless steel
Box	glassfiber reinforced polyamide	glassfiber reinforced polyamide	stainless steel	stainless steel
Protection mode (trapdoor closed)	IP55	IP55	IP55	IP55
Self-closing 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	no	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
Cable	flexible	flexible	flexible </td <td>flexible</td>	flexible

\* with duct for compressed air



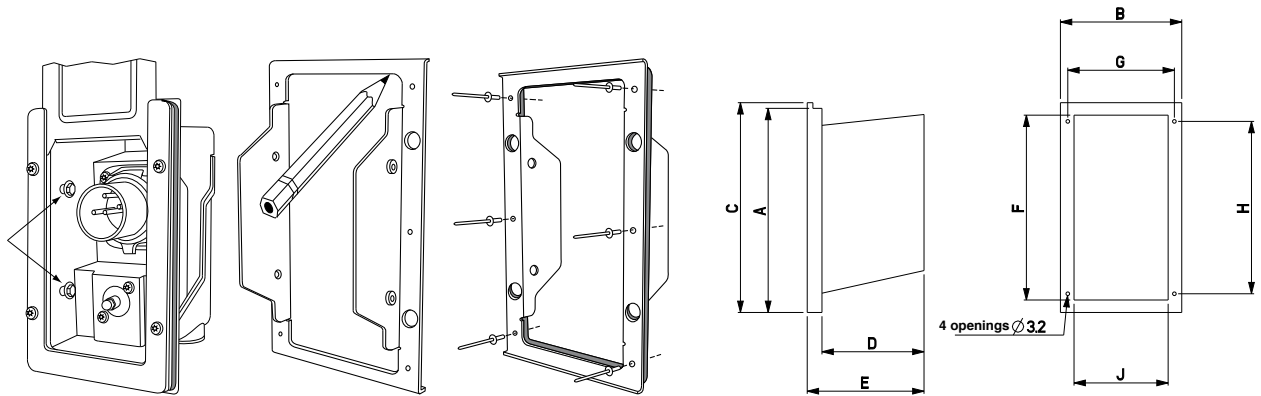
## ENSURE SPEED AND SAFETY

- 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.



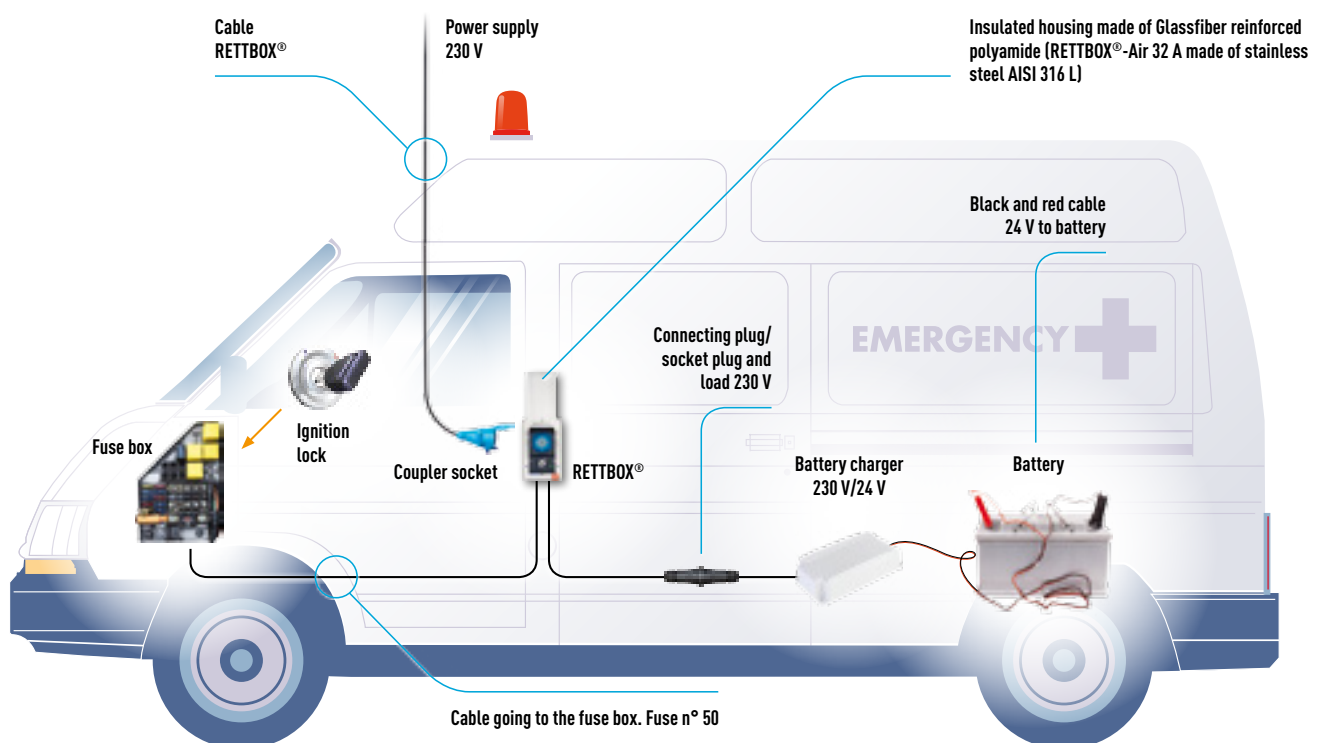
INFOS +

## INSTALLATION STEPS & DIMENSIONS



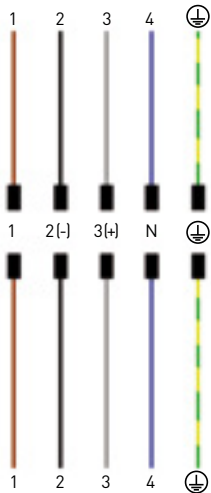
	A	B	C	D	E	F	G	H	J
<b>RETTBOX® 20 A</b>	184	114	184	89	114	163	94	152	83
<b>RETTBOX®-Air 20 A</b>	184	114	184	89	114	163	94	152	83
<b>RETTBOX® 32 A</b>	188	132	197	140	151	173	116	169	103
<b>RETTBOX®-Air 32 A</b>	188	132	197	140	151	173	116	169	103

## TYPICAL CONNECTING DIAGRAM RETTBOX®

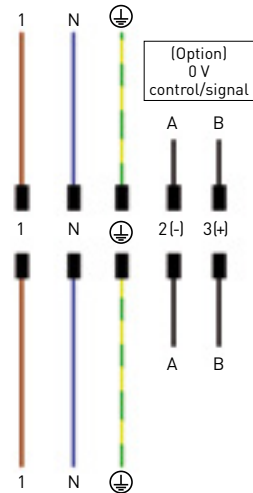




# WIRING DIAGRAM/RETTBOX® 20 A

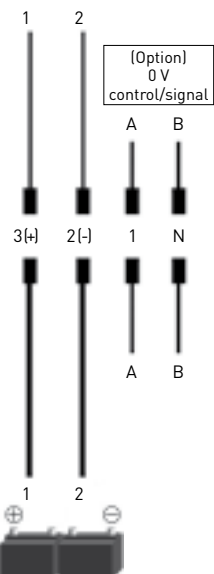


RETTBOX® 20 A/400V

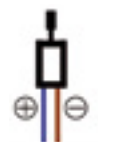


RETTBOX® 20 A/230 V

## 12/24 V



RETTBOX® 20 A 12/24 V



• Observe polarity

2 x 1,5 mm<sup>2</sup> min.



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

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

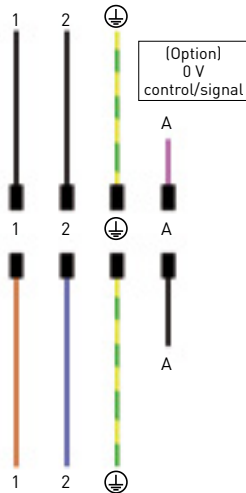
Please be sure to observe the polarity, so that the freewheeling diode will not be damaged.



# WIRING DIAGRAM / RETTBOX®-AIR 20 A

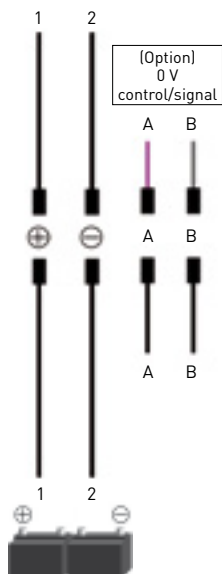


230 V



RETTBOX®-AIR 20 A / 230 V

12/24 V



• Observe polarity

2 x 1,5 mm<sup>2</sup> min.



RETTBOX®-AIR 20 A / 24 V



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

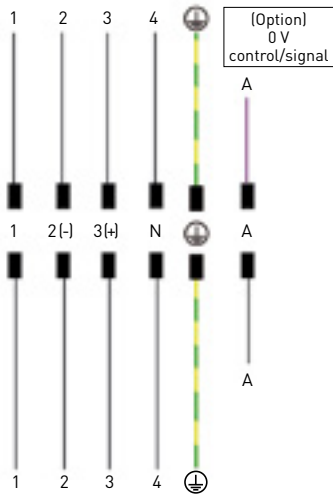
**BLUE = PLUS (+), BROWN = MINUS (-).**

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



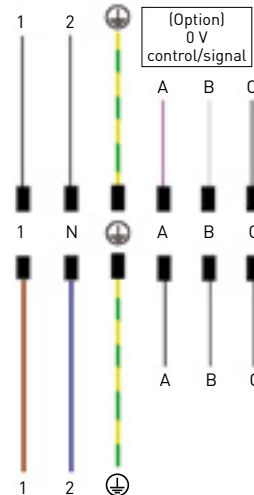
# WIRING DIAGRAM/RETTBOX® 32 A

## 400 V



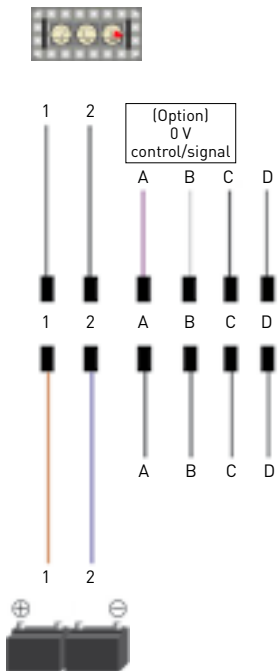
**RETTBOX® 32 A/400 V**

## 230 V

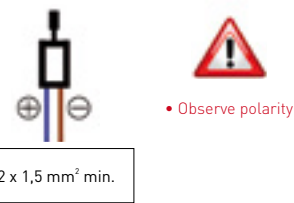


**RETTBOX® 32 A/230 V**

## 24 V



**RETTBOX® 32 A/24 V**



**!** 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.

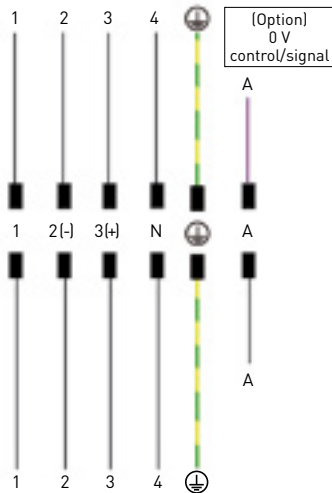




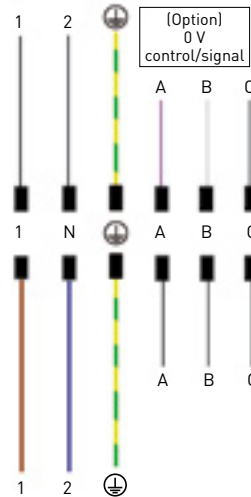
# WIRING DIAGRAM/RETTBOX®-AIR 32 A



## 400 V



## 230 V

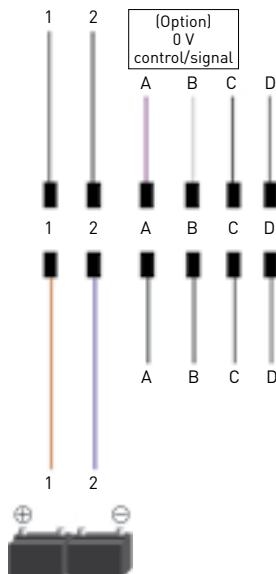


RETTBOX®-AIR 32 A/400 V



RETTBOX®-AIR 32 A/230 V

## 24 V



• Observe polarity

2 x 1,5 mm<sup>2</sup> 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.



# 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	611A013
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## CORD FOR MANUAL SEPARATION (SOCKET COUPLER)



611AZIE

## SOCKET CONTACT















611A021



# SPARE PARTS RETTBOX®-AIR 20 A



RETTBOX®-AIR 20 A, INLET		PART NUMBER
	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	611AMAGRRR12
	24 V	611AMAGRRR24
COMPRESSED AIR STICK FOR RETTBOX®-AIR 20 A INLET		
		611ASTI
STRAIGHT COMPRESSED AIR COUPLER FOR RETTBOX®-AIR 20 A INLET		
	Straight	611AGER
ANGLE COMPRESSED AIR COUPLER FOR RETTBOX®-AIR 20 A INLET		
	Angle	611AWIN
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	611A25325 A
CORD FOR MANUAL SEPARATION (SOCKET COUPLER)		
		611AZIE
COMPRESSED AIR COUPLER FOR RETTBOX®-AIR 20 A SOCKET		
		611ADRU
SOCKET CONTACT		
		611A021



# 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	381AMAGRRR12
24 V	381AMAGRRR24

## 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



311A01930

## 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	381A25332P
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## CORD FOR MANUAL SEPARATION (SOCKET COUPLER)



381AZIE

## 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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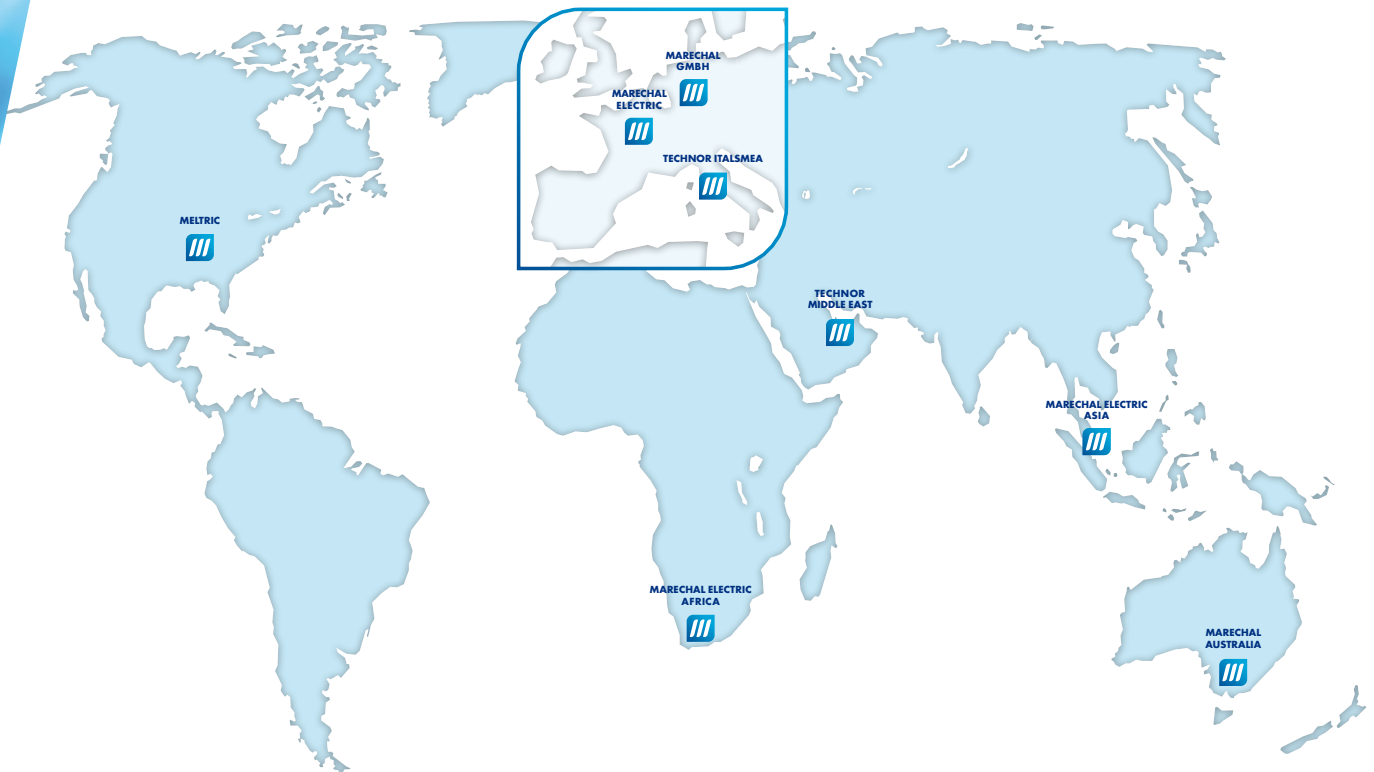
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