



RETTBOX[®] ONE

USER GUIDE

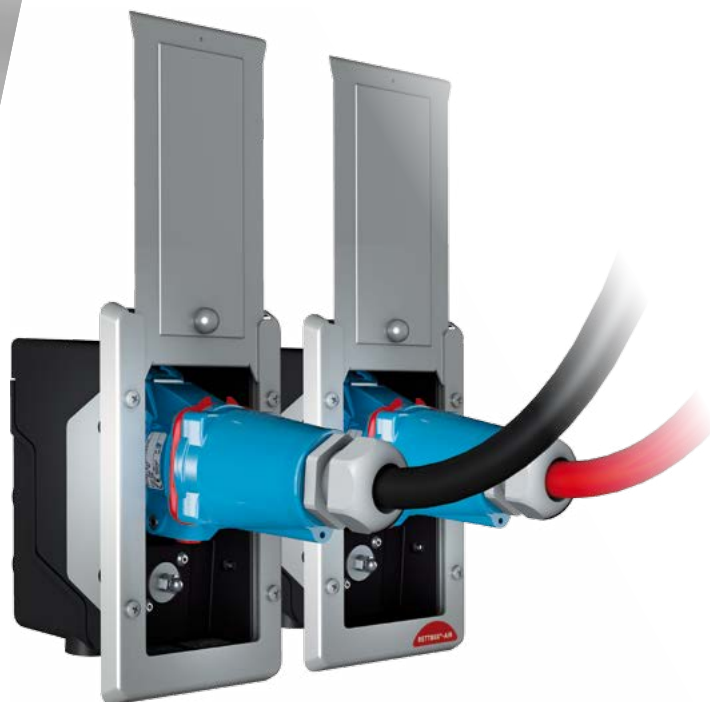
CONTENT

RETTBOX® ONE GENERAL DESCRIPTION	P. 3
INSTALLATION STEPS & DIMENSIONS	P. 5
CONNECTING DIAGRAM RETTBOX® ONE	P. 5
WIRING DIAGRAM RETTBOX® ONE 20 A	P. 6
WIRING DIAGRAM RETTBOX® ONE AIR 20 A.....	P. 7
WIRING DIAGRAM 32 A	P. 8
WIRING DIAGRAM RETTBOX® ONE AIR 32 A.....	P. 9
OPTIONS	P.10
SPARE PARTS RETTBOX® ONE 20 A	P. 12
SPARE PARTS RETTBOX® ONE AIR 20 A.....	P. 13
SPARE PARTS RETTBOX® ONE 32 A & RETTBOX® ONE AIR 32 A....	P. 14



RETTBOX® ONE

ELECTROMAGNETIC SELF-EJECT DECONTACTOR™



20 A/32 A

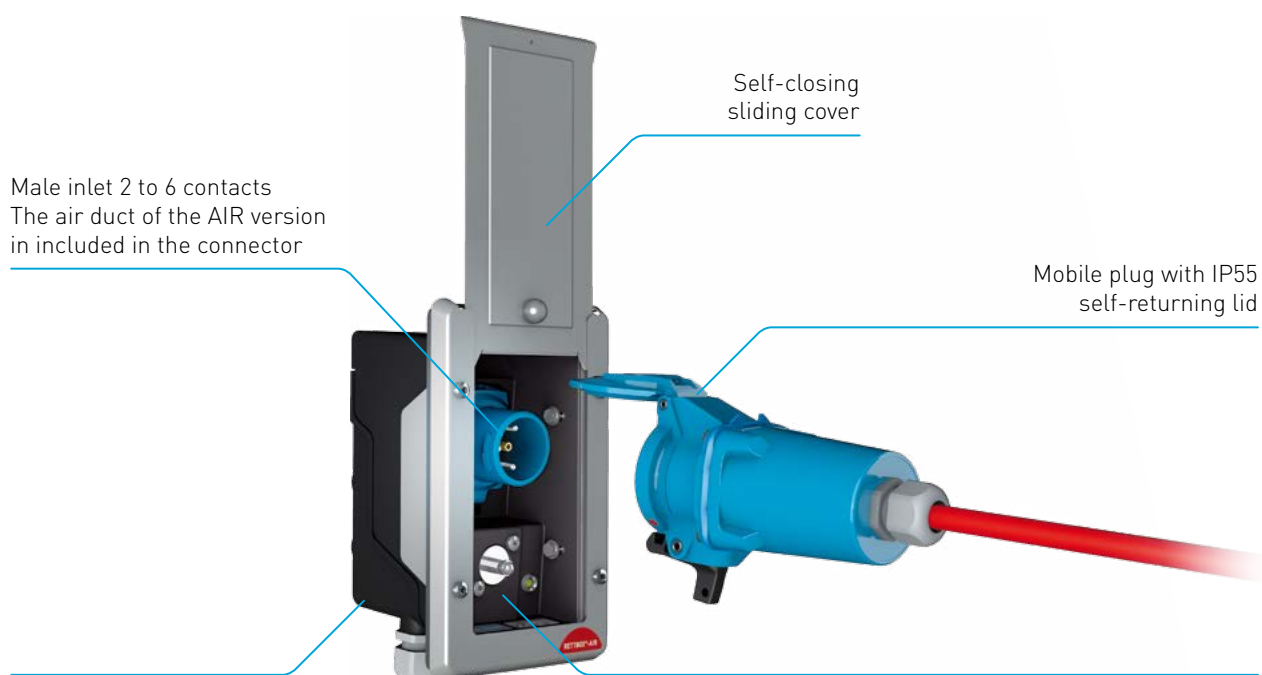
440 V
U MAXI

- ▶ For all types of emergency vehicles
- ▶ DECONTACTOR™ for power supply with secure/automatic ejection RETTBOX® ONE or power supply with compressed air RETTBOX® ONE 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-up function
- ▶ Voltage presence indicator
- ▶ RETTBOX® ONE AIR : Compressed air supply up to 13 bar
- ▶ More than 10,000 matings tested (20 A)

MAIN FEATURES

	RETTBOX® ONE (20 A)	RETTBOX® ONE AIR (20 A)	RETTBOX® ONE (32 A)	RETTBOX® ONE 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 (WxH) in mm	114 x 184	114 x 184	132 x 188	132 x 188
Cut-out dimensions on vehicle's frame (WxHxD) 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	flexible

* with duct for compressed air



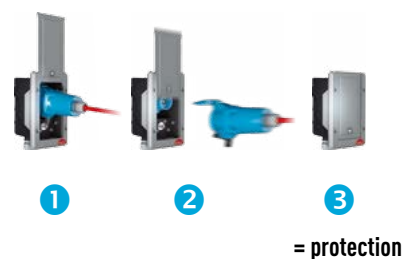
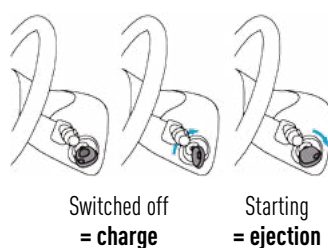
RETTBOX® ONE 20 A: casing in GRP
RETTBOX® ONE 32 A: stainless steel AISI316L

Electric solenoid 12/24 V providing automatic ejection when the engine is started

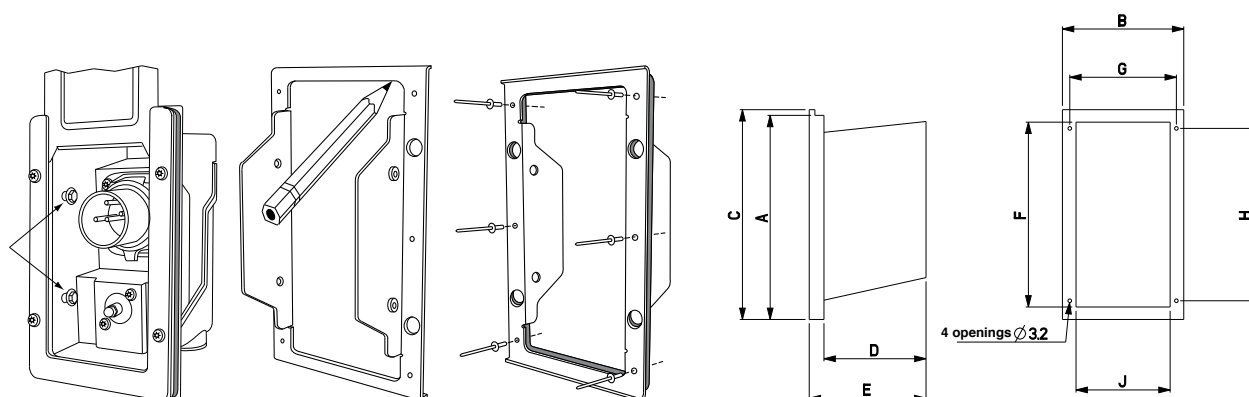
INFOS +

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 solenoid.
- 3 Protection against water and dust by means of a self-closing cover.

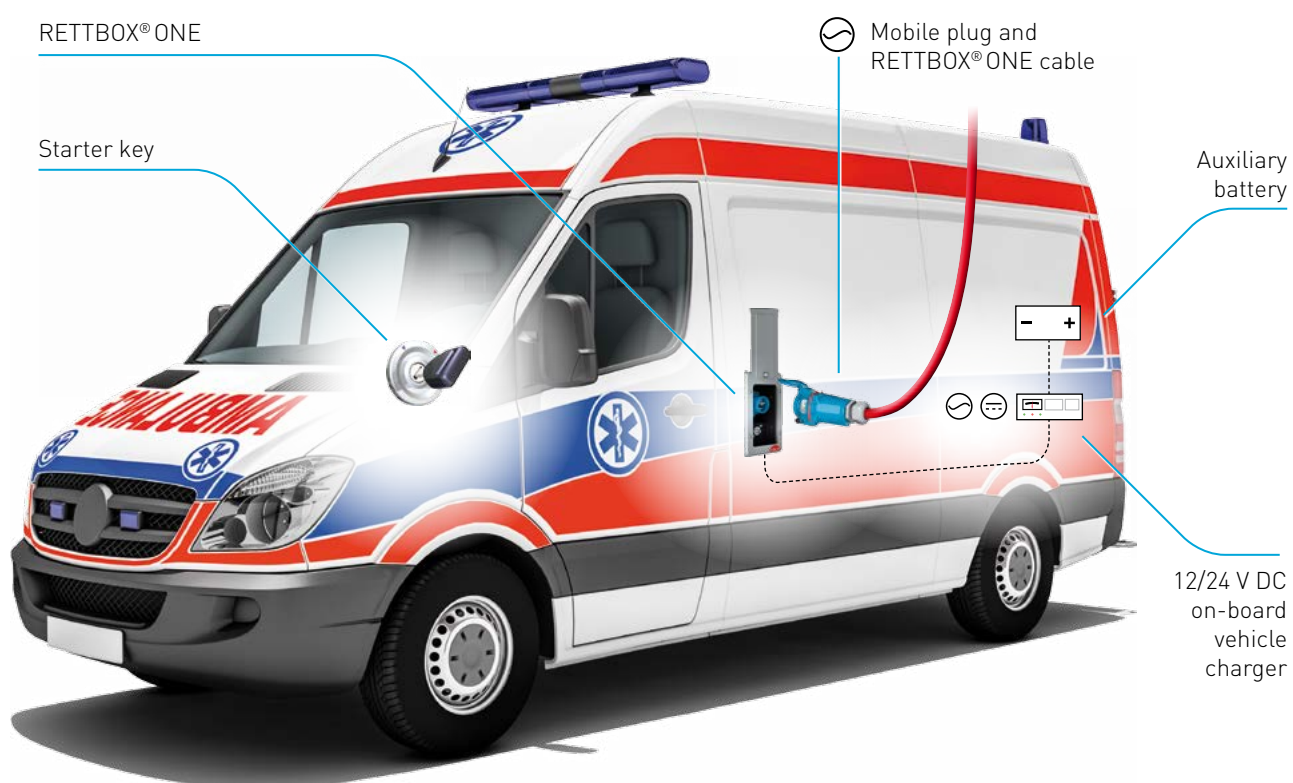


INSTALLATION STEPS & DIMENSIONS



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

TYPICAL CONNECTING DIAGRAM RETTBOX® ONE

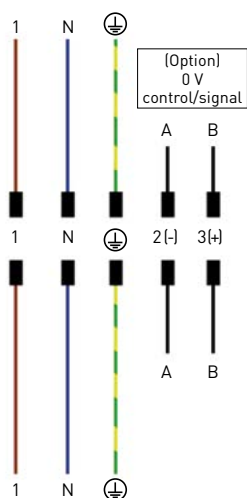




WIRING DIAGRAM RETTBOX® ONE 20 A



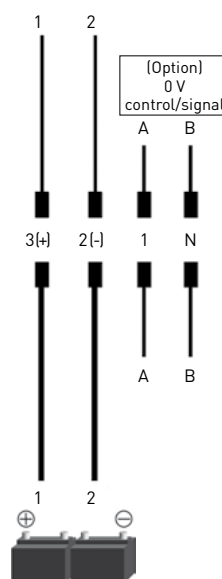
230 V



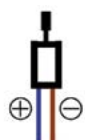
**RETTBOX® ONE
20 A/230 V**



12/24 V



**RETTBOX® ONE
20 A 12/24 V**



2 x 1,5 mm² min.



• Observe polarity



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

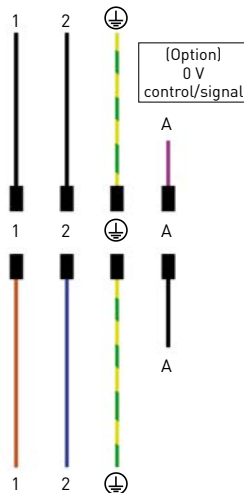
BLUE = PLUS (+), BROWN = MINUS (-).

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

WIRING DIAGRAM RETTBOX® ONE AIR 20 A

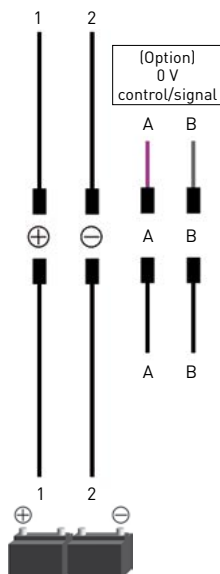


230 V

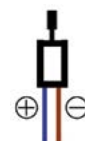


RETTBOX® ONE AIR
20 A/230 V

12/24 V



RETTBOX® ONE AIR
20 A/24 V



• Observe polarity

2 x 1,5 mm² min.



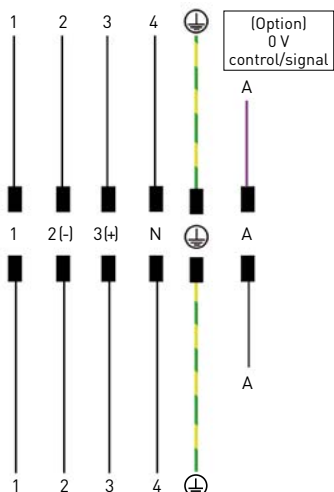
Due to a standardization, it was necessary to determine the color coding of the electric ejection (magnet) as follows:

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

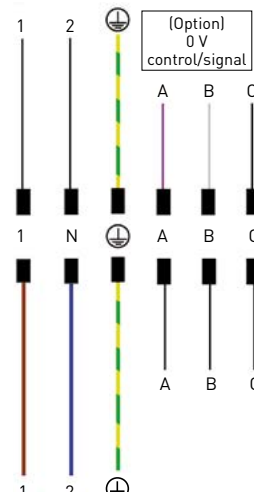
Please be sure to observe the polarity, so that the freewheeling diode will not be damaged.



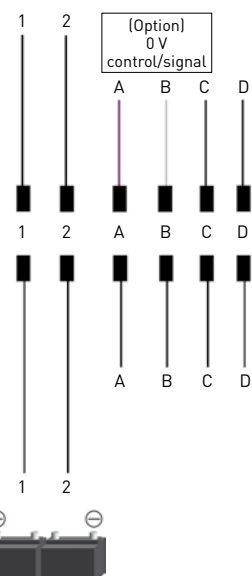
WIRING DIAGRAM RETTBOX® ONE 32 A



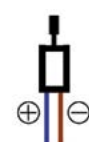
**RETTBOX® ONE
32 A/400 V**



**RETTBOX® ONE
32 A/230 V**



**RETTBOX® ONE
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:

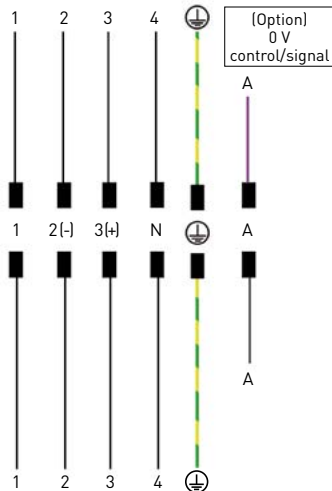
BLUE = PLUS (+), BROWN = MINUS (-).

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

WIRING DIAGRAM RETTBOX® ONE AIR 32 A



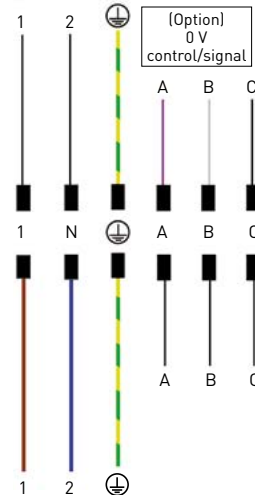
400 V



**RETTBOX® ONE AIR
32 A/400 V**

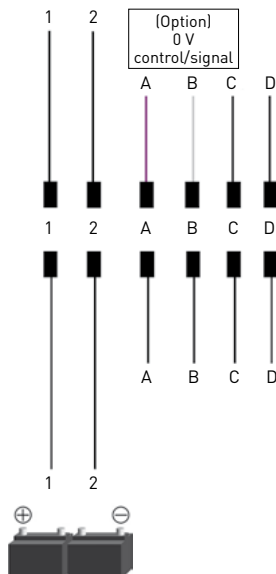


230 V

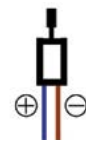


**RETTBOX® ONE AIR
32 A/230 V**

24 V



**RETTBOX® ONE AIR
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.



OPTIONS

CEILING SUSPENSION SYSTEM		PART NUMBER
	(M20) RETTBOX® ONE 20 A	611AHUTRRRL
	(M25) RETTBOX® ONE AIR 20 A	611AHUTAAAL
	(M32) RETTBOX® ONE AIR 32 A	381AHUTAAAL
OPTIONAL MOUNTING BOX		
	RETTBOX® ONE/RETTBOX® ONE AIR	611AAUFBAUA1H
CONNECTING KIT FOR COUPLER SOCKET		
	RETTBOX® ONE AIR	611AABZ
EXTENSION CORD		
	Extension cord RETTBOX® ONE 2m CEE 230V ...Other on request	6113015RK2041
RETTBOX® ONE AIR CLOSED		
		611AZUU
SLIDING DOOR COLORED		
	Fire red RAL3000, other on request	661ATUER



SPARE PARTS RETTBOX® ONE 20 A

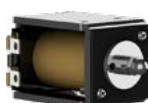
RETTBOX® ONE 20 A, APPLIANCE INLET

PART NUMBER



220 - 250 V AC	1P+N+E	6118015RRR
220 - 250 V AC	1P+N+E+2 aux.	6118175RRR
24 V DC	2P DC	6118089RRR
12 V DC	2P DC	6118059RRR

MAGNET FOR RETTBOX® ONE 20 A



12 V	611AMAGRRR12
24 V	611AMAGRRR24

PLUG CONTACT



611A011

COUPLER SOCKET RETTBOX® ONE 20 A WITHOUT CABLE



220 - 250 V AC	1P+N+E	6113015RRR
220 - 250 V AC	1P+N+E+2 aux.	6113175RRR
24 V DC	2P DC	6113089RRR
12 V DC	2P DC	6113059RRR

SOCKET-OUTLET RETTBOX® ONE 20 A



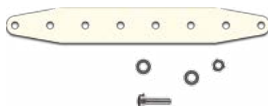
220 - 250 V AC	1P+N+E	6114015RRR
220 - 250 V AC	1P+N+E+2 aux.	6114175RRR
24 V DC	2P DC	6114089RRR
12 V DC	2P DC	6114059RRR

HANDLE FOR RETTBOX® ONE 20 A COUPLER SOCKET



Poly	511P0D18
------	----------

CORD FOR MANUAL SEPARATION (SOCKET COUPLER)



611AZIE

SOCKET CONTACT



611A021

SPARE PARTS RETTBOX® ONE AIR 20 A

RETTBOX® ONE AIR 20 A, APPLIANCE INLET



		PART NUMBER
220 - 250 V AC	1P+N+E access from below	6118015AAAU
220 - 250 V AC	1P+N+E access from behind	6118015AAAAH
220 - 250 V AC	1P+N+E+1 aux. access from below	6118215AAAU
220 - 250 V AC	1P+N+E+1 aux. access from behind	6118215AAAAH
24 V DC	2P DC access from below	6118089AAAU
24 V DC	2P DC access from behind	6118089AAAAH
24 V DC	2P+2 aux. DC access from below	6118159AAAU
24 V DC	2P+2 aux. DC access from behind	6118159AAAAH
12 V DC	2P DC access from below	6118059AAAU
12 V DC	2P DC access from behind	6118059AAAAH

MAGNET FOR RETTBOX® ONE AIR 20 A



24 V	611AMAGR24
12 V	611AMAGR12

COMPRESSED AIR STICK FOR RETTBOX® ONE AIR 20 A INLET



	611ASTI
--	---------

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



Straight	611AGER
----------	---------

ANGLE COMPRESSED AIR COUPLER FOR RETTBOX® ONE AIR 20 A INLET



Angle	611AWIN
-------	---------

PLUG CONTACT RETTBOX® ONE AIR 20 A



	611A011
--	---------

COUPLER SOCKET RETTBOX® ONE AIR 20 A



220 - 250 V AC	1P+N+E	6113015AAA
220 - 250 V AC	1P+N+E+1 aux.	6113215AAA
24 V DC	2P DC	6113089AAA
24 V DC	2P+2 aux. DC	6113159AAA
12 V DC	2P DC	6113059AAA

SOCKET-OUTLET RETTBOX® ONE AIR 20 A



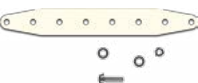
220 - 250 V AC	1P+N+E	6114015AAA
220 - 250 V AC	1P+N+E+1 aux.	6114215AAA
24 V DC	2P DC	6114089AAA
24 V DC	2P+2 aux. DC	6114159AAA
12 V DC	2P DC	6114059AAA

HANDLE FOR COUPLER SOCKET RETTBOX® ONE AIR 20 A



Poly	511P025P
------	----------

CORD FOR MANUAL SEPARATION (SOCKET COUPLER)



	611AZIE
--	---------

COMPRESSED AIR COUPLER FOR RETTBOX® ONE AIR 20 A SOCKET



	611ADRU
--	---------













SOCKET CONTACT



	611A021
--	---------



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

RETTBOX® ONE AIR 32 A, APPLIANCE INLET			PART NUMBER
	220 - 250 V AC	1P+N+E+3 aux.	3818187AAA
	220 - 250 V AC	3P+N+E+1 aux.	3818247AAA
MAGNET FOR RETTBOX® ONE AIR 32 A			
	24 V		381AMAGAAA24
	12 V		381AMAGAAA12
COMPRESSED AIR STICK FOR RETTBOX® ONE AIR 32 A INLET			
			381ASTI
STRAIGHT COMPRESSED AIR COUPLER FOR RETTBOX® ONE AIR 32 A INLET			
	Straight		381AGER
PLUG CONTACT RETTBOX® ONE AIR 32 A			
			311A011
PLUG AUXILIARY CONTACT RETTBOX® ONE AIR 32 A			
			311A011972
COUPLER SOCKET RETTBOX® ONE AIR 32 A, WITHOUT CABLE			
	220 - 250 V AC	1P+N+E+3 aux.	3813187AAA
	220 - 250 V AC	3P+N+E+1 aux.	3813247AAA
SOCKET OUTLET RETTBOX® ONE AIR 32 A			
	220 - 250 V AC	1P+N+E+3 aux.	3814187AAA
	220 - 250 V AC	3P+N+E+1 aux.	3814247AAA
HANDLE FOR COUPLER SOCKET RETTBOX® ONE AIR 32 A			
	Poly		512P032P
CORD FOR MANUAL SEPARATION (SOCKET COUPLER)			
			611AZIE
COMPRESSED AIR COUPLER FOR RETTBOX® ONE AIR 32 A SOCKET			
			381ADRU
SOCKET CONTACT RETTBOX® ONE AIR 32 A (SAME ONE FOR AUXILIARIES)			
			311A021

WEBSITE

- Configure your product specification with our online configurator: marechal.com/configurator
- Retrieve your business contacts.
- Download our documentation related to your field of activity.
- Download our product data sheets.
- Follow current events and news.

**FIND ALL INFORMATION
ON OUR WEBSITE:**
marechal.com



NON CONTRACTUAL DOCUMENT AND PICTURES

All the indications appearing in this catalogue are indicative and could not constitute a commitment on our part.

We reserve the right to alter specifications of our products without any prior notice in our efforts to continuously improve our products features.

For your information, the most updated version is the one of our website

WORLD PRESENCE



MARECHAL ELECTRIC S.A.S (Head Office)

5 avenue du chemin de Presles
94410 Saint-Maurice, FRANCE
Phone : +33 (0)1 45 11 60 00
Fax : +33 (0)1 45 11 60 60
e-mail: contact@marechal.com

Africa SADC area

MARECHAL ELECTRIC AFRICA (PTY) LTD.
PO Box 13875 Witfield 1467
Unit A1 Harvard Lane
Aero Star Business Park
Jet Park Road, Jet Park
South Africa
Tel.: +27 11 894 7226/7/8
Fax: 086 604 1778
e-mail: sales.za@marechal.com

Asia

MARECHAL ELECTRIC Asia Pte Ltd
9 Tagore Lane
#01-05 9@Tagore
Singapore 787472
Tel.: +65 6554 2722
Fax: +65 6455 9077
e-mail: sales.asia@marechal.com

Australia

MARECHAL AUSTRALIA PTY LTD
20 A Technology Circuit
HALLAM VIC 3803
Australia
Tél. : +61 (0)3 8786 2500
Fax : +61 (0)3 8786 2511
e-mail : sales@marechal.com.au

China

MARECHAL ELECTRIC (CHINA) Co., Ltd
11 North Xiangshui Road,
West Dayawan District,
Huizhou.P.R.C
Tel/Fax: +86 (0)752-5319536
e-mail: sales.cn@marechal.com

Germany/Austria/Switzerland/ East Europe/Russia

MARECHAL GmbH
Im Lössenfeld 8
D-77731 Willstätt-Sand
Germany
Tel.: +49 (0)7852/91 96-0
Fax: +49 (0)7852/91 96-19
e-mail: info.de@marechal.com

Middle East

TECHNOR Middle East DMCC
Unit No.2101, Fortune Executive
Tower, Plot No T1
Jumeirah Lakes Towers
P.O. Box 392054
Dubai, United Arab Emirates
Tel.: +971 4 362 1418
Fax: +971 4 362 1419
e-mail: sales.me@marechal.com

USA/Canada/Mexico

MELTRIC Corporation
4765 W. Oakwood Park Drive
Franklin WI 53132, USA
Tel.: +1 414 433 2700
Fax: +1 414 433 2701
e-mail: mail@meltric.com

For any other country or area, please contact head office.

marechal.com

 **MARECHAL
ELECTRIC**
MARECHAL® MELTRIC® RETTBOX® TECHNOR®