



EV FUSE BOX manual

Compatible with all 3.6 and 7.4kW EV chargers

7.4kW PN. EV40001 y EV40002



Easy Plug and Play installation

FULLY WIRED complying EURO Standards

Auto reclosing circuit

Lock with key

Features

Easy Plug and Play installation
FULLY WIRED complying EURO Standards
Auto reclosing circuit
Lock with key
Charging plug meet IEC 62196-2 standard.
Excellent protection performance
Protection Grade IP65-Working condition.
Operating temperature: -30°C to +50°C
Rated voltage: 230V 1 phase
Current Max.: 32A

Components characteristics

1. Over voltage under-voltage protection: Surge arrester (BY18-1+1): 1P, I_{max}=20kA, 275VAC, with remote control
2. Over current protection Auto reclosing circuit 2P, 40A, C curve, 6kA
3. Leakage protection RCCB (KRC3): 1P+N, A type, 40A, 30mA
4. Meter: 230V, 5(40)A, 50Hz (Only in option EV40002)
5. 4. Plastic box (WDB6): 6way, IP65 (EV40001)

or Plastic box (WDB9): 9way, IP65 (EV40002)

Electric Performance

Rated Current and Voltage: 250V AC 32A

- Insulation Resistance: >1000MΩ (DC500V)
- Terminal Temperature Rise: < 50K
- Contact impedance: 0.5 mΩ Max

Wiring specification

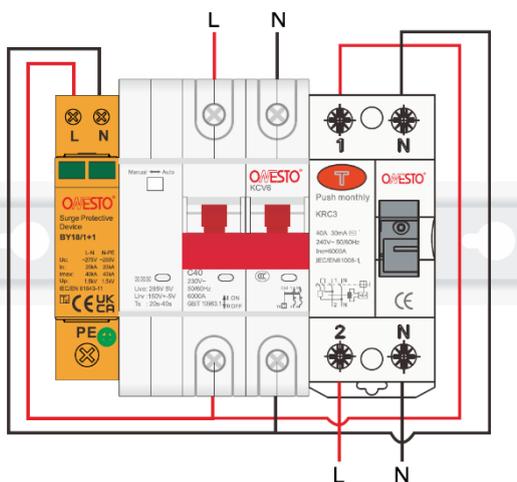
Specification: 6mm²

Wiring diagram as:

- Fig 1.1 (PN. EV40001)
- Fig.1.2 (PN. EV40002)

Cautions

- DO not put the device in the water.
- DO not step on the box, do not pull it, do not fold it up.
- Do not plug the fuse box into a electric installation prepared for less than 7.4W or electric current limit under 32 A.
- DO not drop the frontal door or put heavy things on it.
- DO not place the fuse box near high-temperature objects.
- DO not use the device in extreme temperatures (normal operating range (-30°C to +50°C)).
- The power supply input cable should have at least 6mm² with a standard 32A jack. It is proposed to complete the distribution of electricity by professionals.



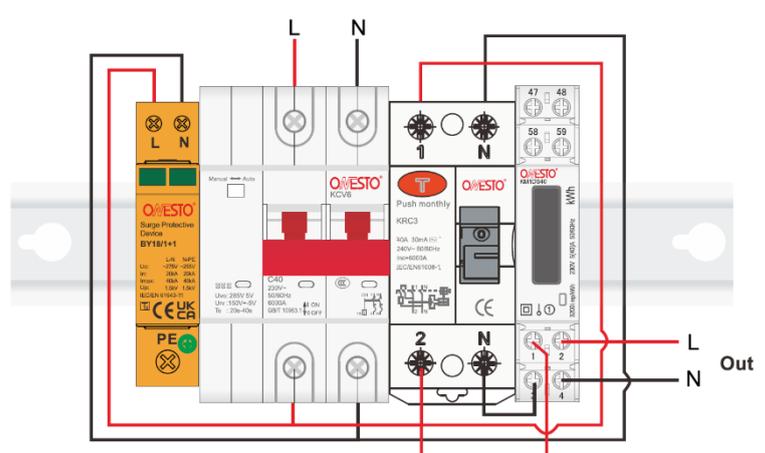
Installation

1. Check the installation comply with the national standards and the incoming wiring are a minimum of 6mm² (10mm² if the distant between the power supply and the fuse box is

- Make sure that the fuse box is free from any signs of scratches, rust, cracks, etc.
- DO not charge if the fuse box is damaged, rusted, cracked or loosely connected.

Warnings

- Carefully read these instructions and your vehicle owner's handbook before installing your EV fuse box and EV charger
- Use only on the mains with fault current circuit breaker.
- DO not use this product if the EV charging cable is damaged.
- This is not a EV charger, use a EV charger connected between this Fuse box and your electric vehicle.
- For use with EV charging.
- The product must be grounded.
- DO not use this unit with an extension cord or adapter.
- The unit contains no user serviceable parts. DO not try to repair or service the device yourself.
- If the unit does not work properly in accordance with the operating instructions, do not use this unit. Contact your dealer for a repair or replacement.
- Use the product under normal away from high temperature erosive materials or ignition source.
- DO not contact metal conductor to prevent electric shock accident.
- Product shell is made of thermoplastic, please do not pound it to avoid reducing performances.



- longer than 8m)
2. Connect your EV charger bellows this point.
3. Make sure that the power outlet complies with.

Warranty:

Damage caused for the following reasons is not covered by the warranty:

1. Improper handling, installation, use and maintenance by the user.
2. Pulling the connector or wires
3. Product falls into the water.

This warranty is for the original purchaser

only and is NOT transferable.

PLEASE NOTE: This document includes the latest information at the time of printing. EVplug Chargers, S.L. reserves the right to make changes to this product without further notice. Changes or modifications to this product by other than an authorized service facility could void the product warranty

Designed in EUROPE
Made in China

Failure mode:

Fault identifies that there is an error in the upload process.

It can occur for the following reasons:

1. Differential protection: Error in the ground connection, connector, cables or very humid or wet vehicle battery.
2. High or low voltage: the supply voltage is

too high or too low.

4. High current or short circuit in charging circuit.

In the event of this error, unplug the charger, turn up all switches and reconnect it. In case the error persists, contact an authorized electrical installer.

Assembled components:

Surge protection device		BY18-20/1+1
Max.continuous operating voltage		275V AC (L-N)
		255V AC (N-PE)
Maximum discharge current(80/20μs)	I _{max}	20kA
Norminal discharge current(80/20μs)	I _n	10kA
Short-circuit current rating	I _{sc}	500A
Voltage protection level	Up	1.2kV
Combination method		1+1
Power supply network		TN,TT,IT
Output contact		NC / NO
Comply with		IEC61643-11:2011
		EN61643-11:2012

Auto-reclosing circuit breaker	KCV6
Rated voltage	230VAC/50Hz
No. Of poles	2
Current	40A
Breaking capacity	6kA
Subvoltage trigger voltage	≤160V±2V
Subvoltage reconnection voltage	≥175V±2V
Surge trigger voltage:	≥275V±2V
Surge reconnection voltage	≤250V±2V
Rearmament time	≤3s
Consumption	≤1.5VA
Communication	RS485

RCCB	KRC3
No.of pole	1P+N
Rated voltage	240V AC
Rated current	40A
Rated frequency	50/60Hz
Rated short-circuit current	6000A
Operating characteristic	A type
Rated residual operating current	30mA
Comply with	IEC/EN61008-1
	IEC/EN61008-2-1

Digital meter	KM1DS40
Display	LCD
Rated voltage	230V
Current	5(40)A
Rated frequency	50/60Hz
Start current direct input	0.004I _b
Consumption	voltage <2VA; current <0.1VA
Energy pulse	1 output, pulse width(80±20%)ms
Communication	RS485, Modbus-RTU
	2-wire, up to 9600bps

Enclosure	WDB9
No.of module	9
Material	PC / ABS
Protection degree(IEC60529)	IP65
Impact resistance(IEC62262)	IK08
Color	RAL7035
Dimension(mm)	233 X 213 X 112
Standard compliance	IEC 62208
Certificate	CE

MANUALS IN OTHER LANGUAGES



For manuals in any other language, please, read the following code or go to <https://evplugchargers.com/downloads/>



Para manuales en otro idioma, por favor lea el siguiente código o vaya a <https://evplugchargers.com/downloads/>



Pour les manuels dans une autre langue, veuillez lire le code ci-dessous ou allez sur <https://evplugchargers.com/downloads/>



Für Handbücher in einer anderen Sprache lesen Sie bitte den Code unten oder gehen Sie zu <https://evplugchargers.com/downloads/>



Per i manuali in un'altra lingua, leggere il codice qui sotto o andare su <https://evplugchargers.com/downloads/>



Aby uzyskać instrukcje w innym języku, przeczytaj poniższy kod lub przejdź do <https://evplugchargers.com/downloads/>



Başka bir dildeki kılavuzlar için lütfen aşağıdaki kodu okuyun veya <https://evplugchargers.com/downloads/> adresine gidin.

