

Installation and user manual

Technical data	
Product type	EVC-HOME11
Standards / Directives:	CE, IEC 61851-1
Installation method:	Wall (Surface) mounted
Recommended installation height:	1,2 m (floor to bottom of charger)
Installation environment:	Indoor / Outdoor
Other installation restrictions	Do not expose to sunlight or other heat sources
Location type:	Non-restricted Access
Power supply:	1~/N/PE; 230 V; 16A or 3~/N/PE 230/400 V; 16A
Earthing system:	TT, TN and IT systems
Frequency:	50 Hz
Charging type:	Mode 3
Charging method:	AC Charging
Current output range	Maximum 16A (adjustable by installer), possible levels: 6, 7, 8, 9, 10, 12, 14, 16A
Rated output	11kW (3ph) / 3,7kW (1ph)
Icc	< 10kA
Overvoltage category	III
Standard cable length (fixed cable):	5 m with Type 2 plug (handle)
Enclosure rating:	IP 54
Mechanical impact resistance:	IK08
Material	Powder coated stainless steel (Inox 316L)
Protection class	I
Operating temperature:	-25 °C - +50 °C"
Storage temperature	-30 °C - +60 °C
Weight:	10 kg
Ventilation:	Ventilation is not supported
Residual current protection	Integrated modular RCCB EV (Type A + DC 6 mA)
Overcurrent and short-circuit protection	Not included, must be provided in upstream board (16A B or C MCB)
Cable inlet	From below, M25 sealing glands included
No adaptors, conversion cables or cord extension sets are allowed to be used	

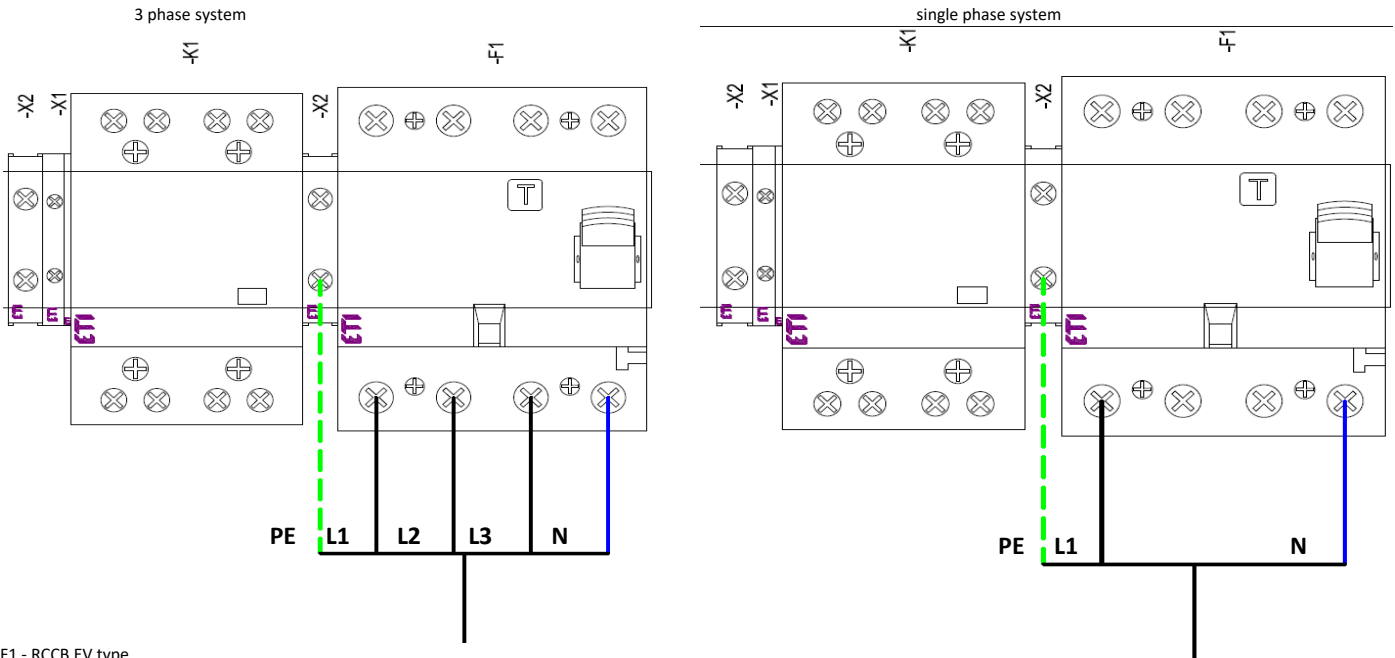
Mounting



Do not expose to sunlight
or other heat sources!



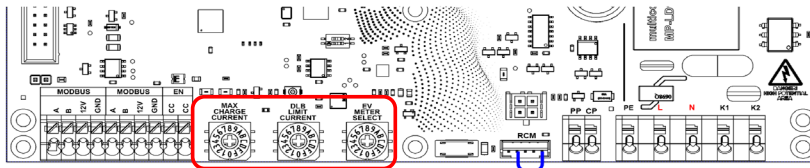
Wiring



F1 - RCCB EV type

Power supply input: 3ph 5x2,5mm² / 1ph 3x 2,5mm²
Upstream protected with MCB 3x16 B or C

SETUP



MAX CHARGE CURRENT rotary selector

0.)6A 1.)7A 2.)8A 3.)9A 4.)10A 5.)12A 6.)14A 7.)16A

22kW version only with Type 2 cable 5x6mm²:

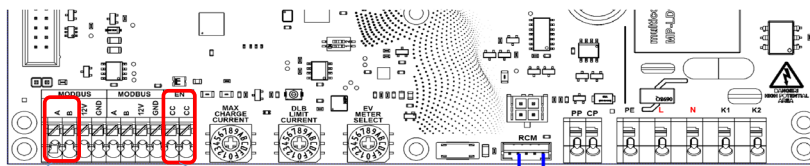
8.)18A 9.)20A 10.)22A 11.)24A 12.)26A 13.)28A 14.)30A 15.)32A

DLB LIMIT / MAINS FUSES SELECTION rotary selector

0.)10A 1.)16A 2.)20A 3.)25A 4.)32A 5.)35A 6.)40A 7.)50A
8.)63A 9.)80A 10.)100A 11.)125A 12.)160A 13.)200A

MAINS ENERGY METER SELECTION + EXTRA SETTINGS rotary selector

- 0.) DLB DISABLED, use standard charge preset to »MAX CHARGE CURRENT«
- 1.) DLB ENABLED, use ETI 3MEM65-BRS energy counter (Set via Screen to address 33 & 9600bps)
- 2.) DLB ENABLED, use 3MEM80-BEVRSP0 meter (Set via screen to address 33 & 9600bps & 1stop bit)
- 3.) DLB ENABLED, Eastron SDM630 meter (Set via screen to address 1 & 9600bps)
- 4.) Reserved up to position 13 for future use.
- 14.) Erase all RFID keys & disable lock/unlock with keys functionality. Set the selector before powering up then after boot wait for all setup displays blinks to finish and a steady green light is displayed. Set the rotary selector back to setting 0...2 and power cycle the charging station.
- 15.) Learn new RFID keys and enable lock/unlock with keys functionality. Set the selector before powering up and after boot wait for all setup display blinks to finish and the charging station indicator is lit in dim white light. Present compatible 13.56Mhz Milfare keys or a mobile phone with Key card emulation support. A newly recognized card is signaled with two bright white blinks. When finished learning new RFID cards set the selector back to setting 0...2 and power cycle the charging station.



RS485 port for connection with Energy counter (twisted pair)

Enable input for simple remote control with external device. Contact under voltage (not dry)! Possible to connect 15-18 contacts of WI-FI module SHT-13

WARNING!

Read all instructions before using this product. Save these instructions. Wall Connector features built-in RCD Type A + DC 6mA. Please review all warnings and cautions before installing and using the product.

WARNING: When using electric products, basic precautions should always be followed, including the following.

INSTRUCTIONS RELATING TO RISK OF FIRE OR ELECTRIC SHOCK

WARNING: Do not install or use the product near flammable, explosive, harsh, or combustible materials, chemicals, or vapors.

WARNING: Turn off power at the circuit breaker before installing or cleaning the product.

WARNING: This device should be supervised when used around children.

WARNING: The product must be earthed through a permanent wiring system or an equipment-earthing conductor.

WARNING: Use the product only within the specified operating parameters.

WARNING: Never spray water or any other liquid directly at the wall mounted control box. Never spray any liquid onto the charge handle or submerge the charge handle in liquid. Store the charge handle in the dock to prevent unnecessary exposure to contamination or moisture.

WARNING: Do not use the product if it is defective, appears cracked, frayed, broken, or otherwise damaged, or fails to operate.

WARNING: Do not use the product if the flexible power cord or cable is frayed, broken, or otherwise damaged, or fails to operate.

WARNING: Do not attempt to disassemble, repair, tamper with, or modify the product. The product is not user serviceable. Contact producer for any repairs or modification.

WARNING: When transporting the product, handle with care. Do not subject it to strong force or impact or pull, twist, tangle, drag, or step on the product, to prevent damage to it or any components.

WARNING: Do not touch the end terminals with fingers or sharp metallic objects, such as wire, tools, or needles.

WARNING: Do not insert fingers or foreign objects into any part of the product.

WARNING: Do not forcefully fold or apply pressure to any part of the product or damage it with sharp objects.

WARNING: Use of the product may affect or impair the operation of any medical or implantable electronic devices, such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator. Check with your electronic device manufacturer concerning the effects that charging may have on such electronic devices before using the product.

CAUTIONS

CAUTION: Do not use private power generators as a power source for charging.

CAUTION: Incorrect installation and testing of the product could potentially damage the vehicle's battery, components, and/or the product itself. Any resulting damage is excluded from the New Vehicle Limited Warranty and the Charging Equipment Limited Warranty.

CAUTION: Do not operate the product in temperatures outside its operating range of -25° C to +65° C

CAUTION: Product should only be installed by personnel who are trained and qualified to work on electrical systems.

CAUTION: Ensure that product is within storage temperature when moving, transporting, or storing.

LED indication and description of operation



When powered RED light is on for 1s, then number of BLUE blinks signalizes the MAX CHARGE current setting, after that GREEN blinks signalize DLB/ MAINS FUSE current setting and last EV meter selection blinks are displayed in CYAN. After the boot process charging station goes to ready mode or locked mode if RFID key operation is selected.

If RFID keys are used, only the same key can lock back the station that has previously unlocked it. When unlocked by RFID key there is 60s time for the user to connect the cable to the EV, else the station locks itself up again. When charging is complete and RFID keys are used after charge is complete and cable is removed the charging station locks itself. When RFID keys are used, and charging is in progress and the right key is presented the charging session is finished and the station is locked.

An unlocked station is indicated by a dim green light. Station locked state is signaled with a low intensity orange with 3s small intensity burst to see the locked state also in sunny condition when LED intensity power reduction is activated.

When a vehicle is connected to the charging station that is ready and unlocked, communication is being established which is indicated by a bright steady cyan colour. When charging is in progress blue light fades in and out. When charging is finished this is also signaled with a bright cyan color. When the charging station is waiting for the EV in case of in car programmed charging delay this is also signaled by a bright Cyan light which means "Negotiating with EV".

In case of an error the error is displayed with red blinks, and a charging session is stopped if charging was progress.

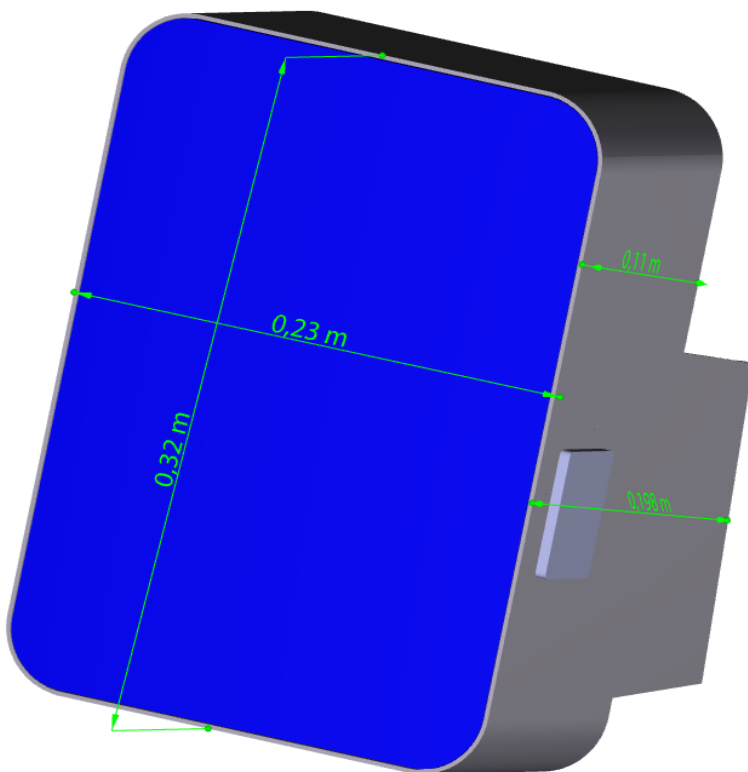
One blink - over temperature, this error is self resettable when temperature falls below 60C.

Two blinks – RCM or RCCB has tripped, this error is not resettable, only a power cycle can reset this error.

Three blinks – problems with communication to mains energy meter, this error is self resettable when communication is restored.

Four blinks - EV Diode fail detected. This error is self resettable when EV is disconnected

Dimensions



RESET

If device needs reset or in case of RCD tripping, please remove plastic cover on the side and reset/activate RCD

