

# eMH1 WALLBOX

## WITH CHARGING SOCKET

### 22 kW

The eMH1 1W2221 is the smallest wallbox with built-in Type 2 charging socket for the private and semi-public domain. With a choice of separately available charging cables (Type 2 to Type 2, Type 2 to Type 1), the system offers flexible charging of various types of electric vehicles. The integrated residual current circuit breaker guarantees an extra high operational safety. Our DC fault current detection is installed as standard.



## General information

|                              |  |
|------------------------------|--|
| Model                        | eMH1   |
| Part number                  | 1W2221   |
| EAN number                   | -  |
| Commodity code               | 85371091   |
| Packaging unit (PU)          | 1 unit   |
| Packaging (dimensions HxWxD) | 355 x 315 x 175 mm   |
| Includes                     | Wallbox, printed installation guide, drilling template, mounting kit, 2 keys |

## Input/Supply

|                 |  |
|-----------------|--|
| Power supply    | 5 x 6 mm <sup>2</sup>  |
| Rated voltage   | 230 / 400 V  |
| Rated current   | 32 A   |
| Mains frequency | 50 Hz  |
| Back-up fuse    | 32 A   |
| Terminal block  | Direct connection to RCCB<br>PE: 6 mm <sup>2</sup> feed-through terminal block |

## Output/vehicle connection

|                       |  |
|-----------------------|--|
| Connection system     | Single lockable Type 2 charging socket in acc. with IEC62196-2 |
| Output voltage        | 230 / 400 V  |
| Max. charging current | 32 A   |
| Maximum output        | 22 kW  |
| Shut down (Standby)   | all contacts   |

## Protection/integrated components

|                            |   |
|----------------------------|---|
| RCCB                       | RCCB, Type A, 30 mA   |
| DC fault current detection | electronic, $I_{\Delta n \text{ d.c.}} \geq 6 \text{ mA}$   |
| Energy meter               | -   |
| Installation contactor     | 4-pole (charging procedure activation)                      |
| Welding detection          | Triggered by welding of the contactor                       |
| Temperature monitoring     | Gradual lowering of charging current in case of overheating |

## Charge control/status indicators

|                            |                                       |
|----------------------------|---------------------------------------|
| Charge controller          | EVCC2                                 |
| Communication              | in acc. with IEC 61851-1, Mode 3      |
| Operating status indicator | LED (stand-by, EV detected, charging) |
| Firmware indicator         | LED (flashes on startup)              |
| Fault indicator            | LED (various flash patterns)          |
| Interface                  | RS485                                 |
| RFID card reader           | -                                     |

## Standards/Directives

|                       |
|-----------------------|
| IEC 61851-21-2        |
| IEC 61851-1 Ed. 3     |
| IEC 60364-7-722 Ed. 1 |

## Operating conditions

|                                |                           |
|--------------------------------|---------------------------|
| Storage temperature            | -30°C to 85°C             |
| Operating temperature          | -30°C to 50°C             |
| Relative humidity              | 5 to 95%, no condensation |
| Class of protection            | I                         |
| Overvoltage category           | III                       |
| Pollution degree               | 3                         |
| Degree of protection (housing) | IP44                      |
| Power dissipation              | n/a                       |

## Enclosure

|                    |   |
|--------------------|---|
| Type               | Wall-mounted housing                    |
| Fixing type        | Plug and screw fixing (screws included) |
| Material (housing) | Plastic                                 |
| Housing color      | RAL9005                                 |
| Material (cover)   | Plastic                                 |
| Cover color        | RAL9006                                 |
| Locking mechanism  | Lockable cover with integrated lock     |
| Dimensions (HxWxD) | 272 x 221 x 116 mm                      |
| Weight             | ca. 3 kg                                |

## Optional accessories

|   |  |
|---|--|
| Pole  | STEMH10  |
| Foundation                                  | EMH9999  |
| Mounting plate/wall bracket with key switch | 1W0001   |
| Type 2 charging cable                       | LAK32A3, 32 A 240/415 V AC, length approx. 4 m |
| Type 2 charging cable                       | LAKC222, 20 A 240/415 V AC, length approx. 7 m |
| Type 2 to Type 1 adapter cable              | LAKK2K1, 32 A 230 V AC, length approx. 4 m     |
| Load management                             | SBCH1  |

## Dimensioned drawing

