

Technical specification

EVSE Wallbox, DIN

EVSE-KIT-DIN



PRODUCT WEBPAGE



EVSE Wallbox, DIN

EVSE stands for electric vehicle supply equipment. It is an element that supplies electric energy for the recharging of electric or plug-in vehicles.

The EVSE board is supplied with default 32A settings.

Pilot signal duty cycle provided by EVSE defines maximum charging capacity. The car can define several states by pulling the pilot signal down to certain voltage levels (3V, 6V, 9V).

Based on this feedback, EVSE will trigger the relay for the vehicle to charge or evaluate the state as an error (electricity will not be provided to the output socket/connector).

GENERAL DESCRIPTION EVSE DIN

Parameters	
Supply voltage	90 – 265 VAC
Power consumption	<1W
AC/DC power	1W or 3W
Operating temperature	-20 to 80 °C
Protection index	IP00
Onboard resistor for external LED	1k
Vehicle compatibility	All vehicles according to IEC 62196
Connection options	HC06 bluetooth, UART-USB converter, wifi ESP8266, ethernet USR-TCP232/GSM, ...

TECHNICAL SPECIFICATION

EVSE	DIN
DIN rail mounting	yes
PP detection	yes
Power relay	no
3phase	yes
Fits inside Type2 or Type1	no
Wiring	easy
Supports vehicles	all
Uart communication	yes
In production	yes

EVSE DIN - BOARD DESCRIPTION

Parameters	
Dimension (without connectors)	86 x 29 x 25 mm
Mounting holes spacing	54 x 18 mm
Relay	5A 250V
Weight	85 g
Order code	EVSE-DIN
Options	RS485 driver, HC06 bluetooth, UART converter, 3W AC/DC

For the minimum installation you can only wire 6pin X1 connector (required: L,N,REL,PE,PP,CP).

OUTPUTS AND INPUTS:

X1 connector = 6pins

Pin	Name	Description
1: L	phase	230V power supply for EVSE board and external contactor
2: N	neutral	230V power supply for EVSE board and external contactor
3: rel	relay output	This output drives coil of an external contactor Maximum allowed current is 3A
4: PE	protection-earth	Ground reference
5: PP	proximity pilot	To vehicle connector
6: CP	control pilot	To vehicle connector

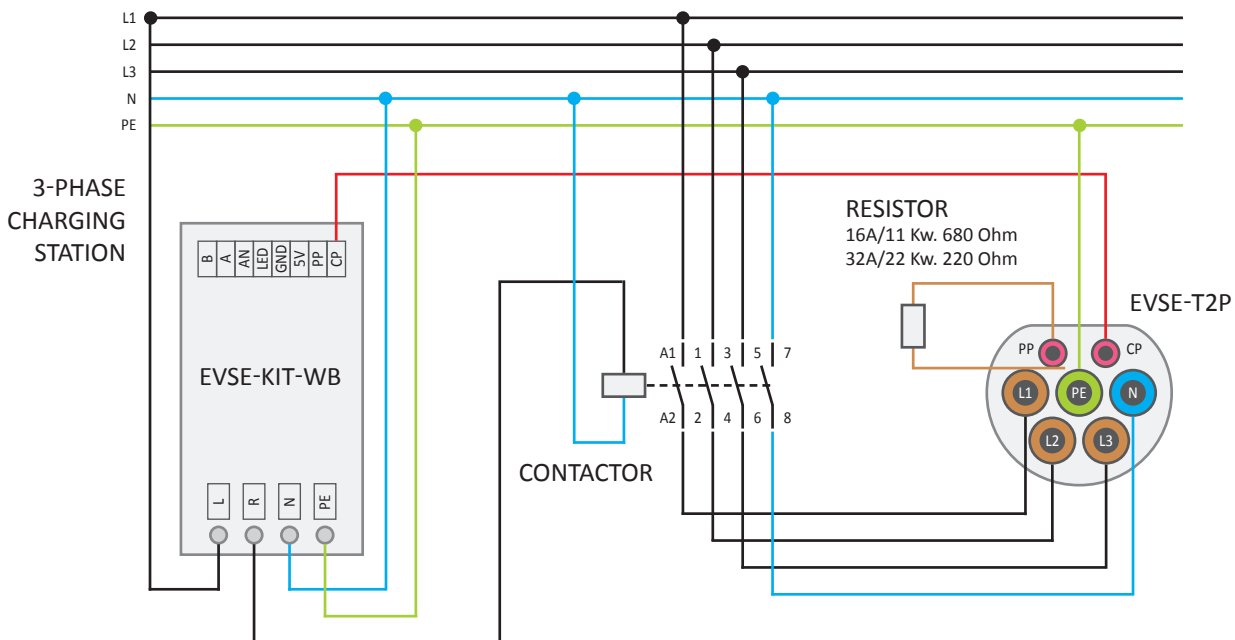
X2 connector = 4pins

Pin	Name	Description
1: 5V	5V power output	Used as a power supply for external components (max 40mA)
2: LED	external LED	Includes 1k resistor onboard, connects to LED anode against ground
3: AN	analog input	Used for button or current sensor input
4: GND	ground	Ground reference



Application examples

3-phase charging station



Simplified connection of the control module to the EV socket (without fuse and fault protection)

COMPONENTS FOR 3-PHASE CHARGING STATION:

EVSE-KIT-DIN and EVSE-KIT-WB are identical models with only difference that EVSE-KIT-DIN has own housing with possibility to install it on a DIN rail while EVSE-KIT-WB is kit only.

EVSE-T2-32-7 (EVSE-T2P + cable 7m length = set)

E EVSE-KIT-DIN

EVSE-RL-40A



GWL a.s.
Průmyslová 11, 102 00 Prague 10
Czech Republic, European Union