GLBT EV Charger DIN

Controller for electric vehicles

Our controller is an element that provides communication for recharging electric or plug-in vehicles.
The GLBT EV Charger DIN is equipped with a PIC microprocessor capable of generating 1 KHz PWM signal, sensing the presence of the vehicle and controlling the load relay. It also allows the adjustment of the width of the PWM, thus adjusting the load current.

Highlights

- Single phase supply from 90 to 265 VAC
- For three phase and single phase model
- For type 2 and J1772 plug connection
- Compatible with BMW, Nissan, Renault, Volvo, Tesla, Mitsubishi, Opel, Volkswagen and others
- Possibility to set/select charge limit levels

Applications

Companies
Industries
Restaurants
Hotels
Condominiums
Counties
Private

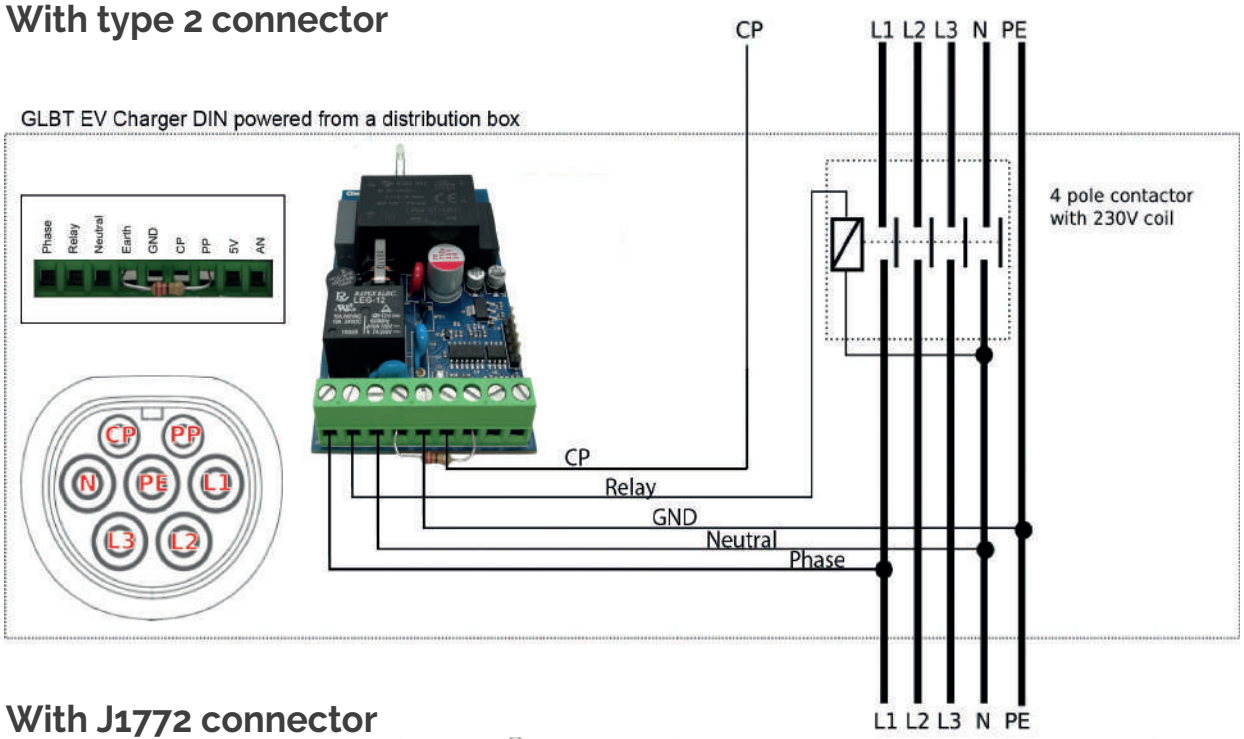
by Globaltronic
spreading technology

LED indication

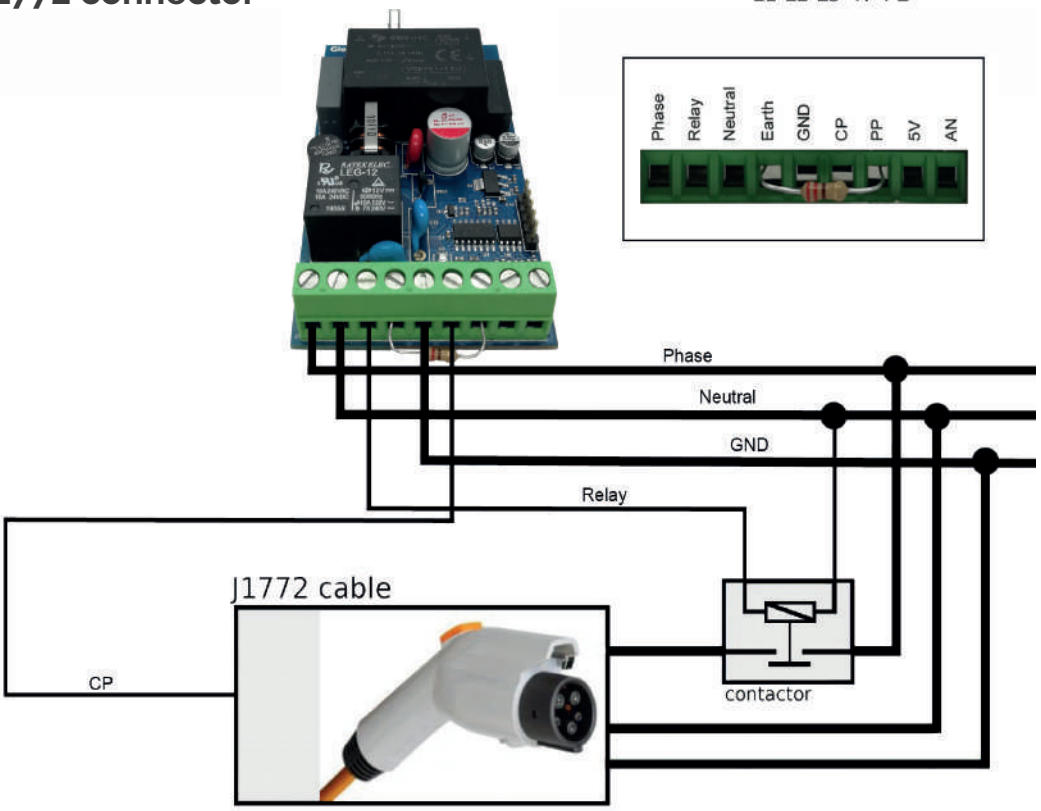
LED	Connection
1x every 2s	Pilot signal is steady +12V (no vehicle connected)
2x every 2s	PWM signal is generated (vehicle is present)
1x long every 2s	Vehicle requested power (contactor is ON)

Application examples

With type 2 connector



With J1772 connector



Description

The GLBT EV Charger DIN is powered by 230 VAC and configured as default base of 32A load current. Supports positive and negative modulation according to SAE J1772 standard and is compatible with all electric vehicles.
The pilot signal formed by the GLBT EV Charger DIN defines the maximum loading capacity. This definition is given by resistance selection (see table below).

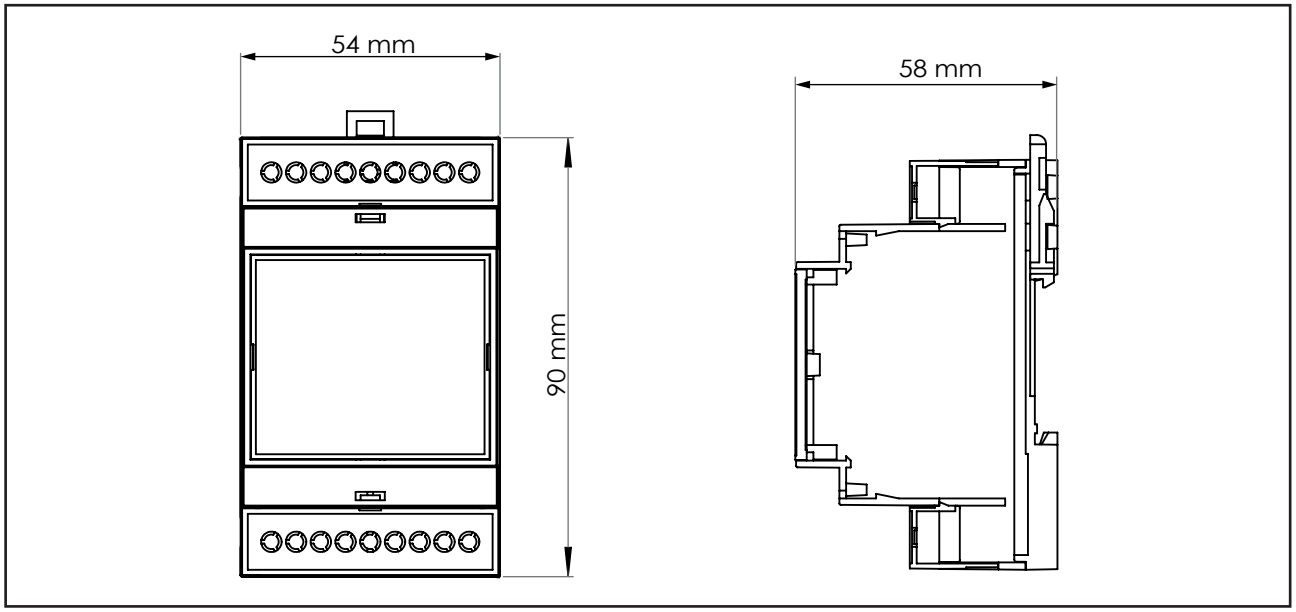
Max cable throughput	
Current limit (A)	**Wire cross-section (mm^2)**
6	2 x 1.5 + GND / 4 x 1.5 + GND
13	2 x 2.5 + GND / 4 x 2.5 + GND
16	2 x 2.5 + GND / 4 x 2.5 + GND
20	2 x 4 + GND / 4 x 4 + GND
25	2 x 6 + GND / 4 x 6 + GND
32	2 x 6 + GND / 4 x 6 + GND

The car can define several states by pulling the pilot signal down to certain voltage levels (3V, 6V, 9V). Based on this, it 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).

Technical features

Operating Temperature	-20°C a 65°C
Energy consumption	< 1W
Supply voltage	90 – 265 VAC
Relay	5A – 250V
Protection Index	IP20
Dimensions	90 x 54 x 58 mm
Weight	60 g

Technical drawing



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contact us

Avenida das 2 Rodas, nº 830
Parque Empresarial do Casarão
3750-860 Borralha
Portugal

E-mail: geral@globaltronic.pt
Telephone: (+351) 234 604 112
Telephone: (+351) 234 612 687

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